



## Documentation for Crucible 3.4

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# Crucible Documentation Home

## Getting started

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## Getting Started

Atlassian Crucible is the on-premises code review solution for enterprise teams. It allows your development teams to catch major defects, improve code architecture, or discuss desired improvements, without the need for meetings.

This section describes how to install, set up and get started with Crucible.

**Related pages:**

- [Using Crucible](#)
- [Administering Crucible](#)
- [Crucible FAQ](#)
- [Crucible upgrade guide](#)

## System requirements

- Crucible is a Java web application, that works with all modern browsers. See our [Supported platforms](#) page to find out about system requirements.

## Download and install Crucible

- [Windows](#)
- [Mac](#)
- [Linux](#)

## Work with projects

Crucible integrates with Subversion, Git, Mercurial, CVS and Perforce. Find out how to [connect to repositories](#), [set up projects](#) and [create reviews](#).

## Integrate Crucible with other Atlassian applications

As a first step, see [JIRA integration in Crucible](#).



## Read more about using Crucible

























You are looking at the Crucible documentation. Browse using the tree in the panel on the left, or use the search at the top right.

## Supported platforms

This page lists the supported platforms for **Crucible 3.4.x** and its minor releases.

**Key:**  = Supported  = Not Supported

| Java Version     |  |  |
|------------------|--|--|
| Oracle JRE / JDK |  1.6<br> 1.7 | <p>Crucible requires the <b>Java Runtime</b> (JDK or JRE), version as noted. Pre-release/Early access versions of the Java Runtime are <i>not supported</i>.</p> <p>You can <a href="#">download</a> an Oracle Java Runtime for Windows/Linux/Solaris. On Mac OS X, the JDK is bundled with the operating system.</p> <p>For the OpenJDK, download and install instructions for Linux flavours are at <a href="http://openjdk.java.net/install/">http://openjdk.java.net/install/</a>.</p> <p>We highly recommend that you use the Oracle JVM or OpenJDK (for Linux only), or use the default Mac OS X JVM. Other implementations have not been tested.</p> <p>Please note:</p> <ul style="list-style-type: none"> <li>• Once you have installed the JDK, you need to set the JAVA_HOME environment variable. See <a href="#">Installing Crucible on Windows</a> or <a href="#">Installing Crucible on Linux and Mac</a> for details.</li> </ul> |

|                             |  |  |
|-----------------------------|--|--|
| OpenJDK                     |  1.7 (Linux only)   | <ul style="list-style-type: none"> <li>If you are using a 64-bit JVM, please ensure that you've set your max heap size (<code>--Xmx</code>) to a reasonable value, considering the RAM requirements of your system.</li> </ul>   |
| <b>Operating Systems</b>    |  |  |
| Microsoft Windows           |   | <ul style="list-style-type: none"> <li>Crucible is a pure Java application and should run on any platform provided the requirements for the JRE or JDK are satisfied.</li> <li> Although Crucible can be run in virtualised environments, Atlassian is not yet able to provide technical support for performance-related problems in a virtualised environment. If you do chose to run Crucible in a VM, please ensure that you choose a VM with good IO throughput.</li> <li> On OS X Java 7 performs significantly better than Java 6</li> </ul>   |
| Linux                       |   |  |
| Apple Mac OS X              |   |  |
| <b>Databases</b>            |  |  |
| MySQL                       |  MySQL Enterprise Server 5.1+<br> MySQL Community Server 5.1+<br> MySQL 5.0 | <p>Crucible supports a number of external databases, as listed. See the <a href="#">Crucible Database documentation</a> for further details.</p> <p> For MySQL:</p> <ul style="list-style-type: none"> <li>For 5.1, version must be 5.1.10 or later</li> <li>For 5.6, version must be 5.6.11 or later</li> <li>Crucible 3.3+ no longer supports MySQL 5.0. See <a href="#">End of Support Announcements for Crucible</a>.</li> </ul> <p> For PostgreSQL:</p> <p>Crucible 3.3+ no longer supports PostgreSQL 8.2. See <a href="#">End of Support Announcements for Crucible</a>.</p> <p> For SQL Server:</p> <p>Crucible 3.3+ no longer supports SQL Server 2005 . See <a href="#">End of Support Announcements for Crucible</a>.</p> |
| PostgreSQL                  |  8.3, 8.4<br> 9.0, 9.1, 9.2, 9.3<br> 8.2                                |  |
| Oracle                      |  11g  |  |
| SQL Server                  |  2008, 2008 R2, 2012<br> 2005  |  |
| HSQLDB                      |  Bundled; for evaluation use only   |  |
| <b>Web Browsers</b>         |  |  |
| Microsoft Internet Explorer |  9.0, 10.0, 11.0<br> 8.0   | <p>Minimum screen resolution of 1024x768. Recommended screen resolution of 1280x768 or above.</p> <p> Crucible 3.3+ no longer supports Internet Explorer 8. See <a href="#">End of Support Announcements</a></p>  |
| Mozilla Firefox             |  Latest stable version supported<br> 3.6, 4.0  |  |

|                         |  |   |
|-------------------------|--|---|
| Safari                  | <div>✔ Latest stable version supported</div> <div>✔ 4, 5</div>   | for Crucible.   |
| Chrome                  | <div>✔ Latest stable version supported</div>   |   |
| Version Control Systems |  |   |
| Subversion (SVN)        | <div>Server:</div> <div>✔ 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8</div> <div>Client:</div> <div>✔ SVNKit (bundled &amp; the default)</div> <div>✔ Native JavaHL 1.8</div> <div>✔ Native JavaHL 1.7</div> <div>✖ Native JavaHL 1.6</div> | <div>✖ FishEye 3.1, and later, <b>do not</b> support the native JavaHL 1.6 client.</div> <div>See <a href="#">Native support for SVN</a> for discussion.</div>                                      |
| CVS (and CVSNT)         | <div>✔ All versions</div>  |   |
| Perforce (P4)           | <div>✔ Client version 2007.3 or later</div> <div>✔ Server version 2005.1 or later</div>  | The Server must support the ztag tagged protocol.   |
| Git                     | <div>✔ 1.7.1.1 or later</div>  |   |
| Mercurial (Hg)          | <div>✔ 1.5.1, 1.5.4, 1.6.4, 1.7.5, 1.8.4, 1.9.3</div> <div>✔ 2.0.2, 2.1.2, 2.2.3, 2.3.2, 2.4, 2.5.2, 2.6.3, 2.7.2, 2.8.2, 2.9.1</div>  | <div>Mercurial 2.1 has a <a href="#">bug</a> that makes it incompatible with Crucible. Please use Mercurial 2.1.1 or later.</div> <div>You should restart Crucible after upgrading Mercurial.</div> |
| Atlassian applications  |  |   |
| Crowd                   | <div>✔ Crowd server 2.4.x</div> <div>✔ Crowd client library: 2.4.1</div>   | From version 2.8.x, Crucible bundles the Crowd 2.4.1 client library, and supports the Crowd 2.4.x server.   |
| JIRA                    | <div>✔ JIRA FishEye Plugin 6.1.0+</div>  | The JIRA FishEye Plugin is bundled with JIRA. If you are using earlier versions of JIRA you can upgrade the plugin in JIRA to get support for Crucible.   |

## Deployment Notes for Source Code Repositories

Crucible can also store uploaded files in its own database, removing the need for any kind of repository. A number of external databases are supported when Crucible is used with FishEye. See the [FishEye Supported Platforms](#).

## End of Support Announcements for Crucible

This page contains announcements of the end of support for various platforms and browsers when used with Crucible. This is summarised in the table below. Please see the sections following for the full announcements.

### End of support matrix for upcoming versions of Crucible

| Platform                       | Announcement Date | Crucible End of Support |
|--------------------------------|-------------------|-------------------------|
| <a href="#">MySQL 5.0</a>      | 27 November 2013  | As of Crucible 3.3      |
| <a href="#">PostgreSQL 8.2</a> | 27 November 2013  | As of Crucible 3.3      |

|                     |                  |                    |
|---------------------|------------------|--------------------|
| SQL Server 2005     | 27 November 2013 | As of Crucible 3.3 |
| Internet Explorer 8 | 27 November 2013 | As of Crucible 3.3 |

The table above summarises information regarding the end of support announcements for upcoming Crucible releases. If a platform (version) has already reached its end of support date, it is not listed in the table.

### Why is Atlassian ending support for these platforms?

Atlassian is committed to delivering improvements and bug fixes as fast as possible. We are also committed to providing world class support for all the platforms our customers run our software on. However, as new versions of databases, web browsers etc. are released, the cost of supporting multiple platforms grows exponentially, making it harder to provide the level of support our customers have come to expect from us. Therefore, we no longer support platform versions marked as end-of-life by the vendor, or very old versions that are no longer widely used.

### On this page (most recent announcements first):

- [Deprecated Crucible support for MySQL 5.0 \(announced 27 November 2013\)](#)
- [Deprecated Crucible support for PostgreSQL 8.2 \(announced 27 November 2013\)](#)
- [Deprecated Crucible support for SQL Server 2005 \(announced 27 November 2013\)](#)
- [Deprecated Crucible support for Internet Explorer 8 \(announced 27 November 2013\)](#)
- [Deprecated Crucible 3.2 support for older versions of JIRA \(announced 27 August 2013\)](#)
- [Deprecated database support for Crucible \(announced 4 October 2011\)](#)
- [Deprecated web browsers for Crucible \(announced 21 March 2011\)](#)
- [Deprecated Java platforms for Crucible \(announced 21 March 2011\)](#)
- [Deprecated SCM repository support for Crucible \(announced 4 April 2011\)](#)

#### Deprecated Crucible support for MySQL 5.0 (announced 27 November 2013)

Atlassian announces the deprecation of Crucible support for MySQL 5.0. We will no longer support MySQL 5.0 in Crucible 3.3. Crucible 3.3 is expected to be released in the first half of 2014.

If you have questions or concerns regarding this announcement, please email `eol-announcement` at `atlassian dot com`.

#### Deprecated Crucible support for PostgreSQL 8.2 (announced 27 November 2013)

Atlassian announces the deprecation of Crucible support for PostgreSQL 8.2. We will no longer support PostgreSQL 8.2 in Crucible 3.3. Crucible 3.3 is expected to be released in the first half of 2014.

If you have questions or concerns regarding this announcement, please email `eol-announcement` at `atlassian dot com`.

#### Deprecated Crucible support for SQL Server 2005 (announced 27 November 2013)

Atlassian announces the deprecation of Crucible support for SQL Server 2005. We will no longer support SQL Server 2005 in Crucible 3.3. Crucible 3.3 is expected to be released in the first half of 2014.

If you have questions or concerns regarding this announcement, please email `eol-announcement` at `atlassian dot com`.

#### Deprecated Crucible support for Internet Explorer 8 (announced 27 November 2013)

Atlassian announces the deprecation of Crucible support for IE8. We will no longer support IE8 in Crucible 3.3. Crucible 3.3 is expected to be released in the first half of 2014.

If you have questions or concerns regarding this announcement, please email `eol-announcement` at `atlassian dot com`.

#### Deprecated Crucible 3.2 support for older versions of JIRA (announced 27 August 2013)

Atlassian announces the deprecation of support for Crucible communication with older versions of Atlassian JIRA. We will stop supporting older versions of JIRA as follows:

- From Crucible 3.2, support for Crucible to JIRA communication for versions of JIRA earlier than 5.0, will end. Please note that communication from JIRA to Crucible will continue to work as it currently does. Crucible 3.2 is expected to be released late in 2013.

If you have questions or concerns regarding this announcement, please email `eol-announcement` at `atlassian dot com`.

#### Deprecated database support for Crucible (announced 4 October 2011)

This section announces the end of Atlassian support for certain databases for Crucible.

We will **stop supporting older versions of databases** as follows:

- For the next major version of Crucible, in January 2012, support for MySQL 5.0, PostgreSQL 8.0 and 8.1 will end.

Please refer to the [Supported platforms](#) for more details regarding platform support for Crucible. If you have questions or concerns regarding these announcements, please email `eol-announcement` at `atlassian dot com`.

| Database               | Support End Date |
|------------------------|------------------|
| MySQL 5.0              | January 2012     |
| PostgreSQL 8.0 and 8.1 | January 2012     |

#### End of Support Notes for MySQL 5.0 and PostgreSQL 8.0 and 8.1:

- Atlassian intends to end of life support for MySQL 5.0, PostgreSQL 8.0 and 8.1 in January 2012. The release of Crucible after January 2012 will not support MySQL 5.0, PostgreSQL 8.0 or 8.1.
- As mentioned above, the releases of Crucible before January 2012 will contain support for MySQL 5.0 and PostgreSQL 8.0 and 8.1.

#### Deprecated web browsers for Crucible (announced 21 March 2011)

This section announces the end of Atlassian support for certain web browsers for Crucible.

We will **stop supporting older versions of web browsers** as follows:

- From Crucible 2.6, due in May 2011, support for Internet Explorer 7 will end.

The details are below. Please refer to the [Supported platforms](#) for more details regarding platform support for Crucible. If you have questions or concerns regarding this announcement, please email `eol-announcement` at `atlassian dot com`.

#### End of Life Announcement for Web Browser Support

| Web Browsers        | Support End Date                             |
|---------------------|--|
| Internet Explorer 7 | When Crucible 2.6 releases (target May 2011) |

#### Internet Explorer 7 Notes:

- Crucible 2.5 is the last version to officially support Internet Explorer 7.
- Crucible 2.6 is currently targeted to release in May 2011 and will not be tested with Internet Explorer 7. After the Crucible 2.6 release, Atlassian will not provide fixes in older versions of Crucible for bugs affecting Internet Explorer 7.

#### Deprecated Java platforms for Crucible (announced 21 March 2011)

This section announces the end of Atlassian support for certain Java Platforms for Crucible.

We will **stop supporting the following Java Platforms**:

- From Crucible 2.6, due in May 2011, support for Java Platform 5 (JDK/JRE 1.5) will end.

We are ending support for Java Platform 5, in line with [Sun's Java SE Support Road Map](#) (i.e. "End of Service Life" for Java Platform 5 dated October 30, 2009). We are committed to helping our customers understand this decision and assist them in updating to Java Platform 6, our supported Java Platform.

The details are below. Please refer to the [Supported platforms](#) for more details regarding platform support for Crucible. If you have questions or concerns regarding this announcement, please email [eol-announcement at atlassian dot com](mailto:eol-announcement@atlassian.com).

#### End of Life Announcement for Java Platform Support

| Java Platform                 | Support End Date                         |
|-------------------------------|--|
| Java Platform 5 (JDK/JRE 1.5) | When Crucible 2.6 releases, due May 2011 |

#### Java Platform 5 End of Support Notes:

- Crucible 2.5 is the last version to officially support Java Platform 5 (JDK/JRE 1.5).
- Crucible 2.6 is currently targeted to release in May 2011 and will not be tested with Java Platform 5 (JDK/JRE 1.5). After the Crucible 2.6 release, Atlassian will not provide fixes in older versions of Crucible for bugs affecting Java Platform 5 (JDK/JRE 1.5).

#### Deprecated SCM repository support for Crucible (announced 4 April 2011)

This section announces the end of Atlassian support for certain SCM repositories for Crucible. End of support means that Atlassian will remove all functionality related to certain SCM repositories past the specified date. Releases before that date will contain the functionality that supports the SCM, however, Atlassian will fix only critical bugs that affect functionality for that SCM, and will not add any new features for that SCM. After the specified date, Atlassian will not support the functionality in any version of Crucible.

Please refer to the [Supported platforms](#) for more details regarding platform support for Crucible. If you have questions or concerns regarding these announcements, please email [eol-announcement at atlassian dot com](mailto:eol-announcement@atlassian.com).

| SCM Repository               | Support End Date |
|------------------------------|------------------|
| IBM ClearCase (all versions) | 4 April 2012     |

#### IBM ClearCase End of Support Notes:

- Atlassian intends to end of life IBM ClearCase functionality on 4 April 2012. The release of Crucible after 4 April 2012 will not contain any IBM ClearCase functionality.
- As mentioned above, the releases of Crucible before 4 April 2012 will contain support for IBM ClearCase. However, we will only be fixing critical bugs related to IBM ClearCase and will not be adding any features.
- After 4 April 2012, Atlassian will not support IBM ClearCase functionality in any version of Crucible

#### End of Support Announcement for IBM ClearCase

Support in Crucible for [IBM ClearCase](#) ended on **April 4th 2012**. Crucible 2.8, and later versions, do not have support for ClearCase.

We have made these decisions to reduce the testing time required for each release and to help us to deliver market-driven features faster.

You can stay on older versions of Crucible to support your existing installations with ClearCase. However, Atlassian will not be providing any ClearCase-related support for any Crucible version after 4 April 2012, and **has removed all functionality** related to ClearCase from Crucible versions released after April 4th 2012. We are committed to helping our customers understand this decision and to assist you in migrating to a different SCM, if needed.



For more details about the announcement, please refer to this page: [End of Support Announcements for Crucible](#).

## Installing Crucible on Windows

Hey! We're going to perform a clean install of Crucible on Windows. There are a few steps involved, but we think you'll find it easy to follow along.

If you already have FishEye installed, you should read [Upgrading from FishEye to Crucible](#) instead.

### 1. Check supported platforms

Better check the [Supported platforms](#) page first; it lists the application servers, databases, operating systems, web browsers and JDKs that we have tested Crucible with, and that we recommend.

Atlassian only officially supports Crucible running on x86 hardware and 64-bit derivatives of x86 hardware.

#### Related pages:

- [Running Crucible as a Windows service](#)
- [Upgrading from FishEye to Crucible](#)
- [Installing Crucible on Linux and Mac](#)
- [Starting to use Crucible](#)
- [Supported platforms](#)

### 2. Check your version of Java


In a command prompt, run this:

```
java -version
```

The version of Java should be **1.6.0** or higher. If you intend to [Running Crucible as a Windows service](#), using the Java Service Wrapper, you should use 32-bit Java (even on a 64-bit machine), and the JDK rather than the JRE (so as to take advantage of the `-server` parameter).

▼ [If you don't see Java 1.6.0 or higher, then get Java...](#)

Download and install the Java Platform JDK from [Oracle's website](#).

 *The Java install path should not contain spaces, so don't install into C:\Program Files\Java\. Instead, use a path like C:\Java.*

Now try running 'java -version' again to check the installation. The version of Java should be **1.6.0** or higher.

### 3. Check that Windows can find Java

Windows uses the JAVA\_HOME environment variable to find Java. To check that, in a new command prompt, run:

```
echo %JAVA_HOME%
```

You should see a path to the Java install location that does *not* contain spaces. We recommend that JAVA\_HOME should point to the Java executable in your PATH.

▼ [If you don't see a path without spaces...](#)



- If you see a path with spaces, like `C:\Program Files\Java\`, then sorry, but go back to 2. and reinstall Java to a location that doesn't have spaces.
- If you don't see a path at all, or if you just see `%JAVA_HOME%`, then set `JAVA_HOME` as follows:

#### For Windows 7:

1. Go to **Start**, search for "sys env" and choose **Edit the system environment variables**.
2. Click **Environment Variables**, and then **New** under 'System variables'.
3. Enter "JAVA\_HOME" as the **Variable name**, and the absolute path to where you installed Java as the **Variable value**, that is, something like `C:\Java\bin`. Don't use a trailing backslash. We recommend that `JAVA_HOME` should point to the Java executable specified in your `PATH`.
4. Now, in a new command prompt, try running '`%JAVA_HOME%\java -version`'. You should see the same version of Java as you saw above.

#### 4. Create a dedicated Crucible user (recommended)

For production installations, we recommend that you create a new dedicated Windows user that will run Crucible on your system. This user:

- Should *not* have admin privileges.
- Should be a non-privileged user with read, write and execute access on the Crucible home (install) directory and instance (data) directory. These directories are described below.
- Should only have read access to your repositories.

If you created a dedicated Crucible user, ensure you are logged in as this user to complete the remaining instructions.

#### 5. Now it's time to get Crucible


Download Crucible from the Atlassian download site.

Extract the downloaded file to an install location:

- Folder names in the path to your Crucible executable should not have spaces in them. The path to the extracted directory is referred to as the `<Crucible home directory>` in these instructions. If you use FishEye and Crucible together, they run as one instance – see [Crucible and FishEye](#).
- If you expect to have a large number of users for this Crucible installation, and Crucible will be [connected to an external database](#), consider installing Crucible on a different server from the one running the external database, for improved performance.

#### 6. Tell Crucible where to store your data


The Crucible instance directory is where your Crucible data is stored.

 You *should not* locate your Crucible instance directory inside the `<Crucible home directory>` — these should be entirely separate locations. If you do put the instance directory in the `<Crucible home directory>` it will be overwritten, and lost, when Crucible gets upgraded. And by the way, you'll need separate Crucible instance directories if you want to run multiple copies of Crucible.

Create your Crucible instance directory, and then tell Crucible where you created it by setting a `FISHEYE_INST` environment variable, as follows:

#### For Windows 7:

1. Go to **Start**, search for "sys env" and choose **Edit the system environment variables**.
2. Click **Environment Variables**, and then **New** under 'System variables'.
3. Enter "FISHEYE\_INST" as the **Variable name**, and the absolute path to your new Crucible instance directory as the **Variable value**. Don't use a trailing backslash.
4. Now copy the newly extracted `<Crucible home directory>\config.xml` file to the root of your new Crucible instance directory.

 Note that if Crucible is run as a Windows service using the Java Service Wrapper, Crucible-specific environment variables such as `FISHEYE_INST` are ignored – these must be set in the wrapper.conf file. See [Ru](#)

## Running Crucible as a Windows service

If you have a large number of repositories, we recommend you increase the default number of files that Crucible is allowed to open. See the following knowledge base article for more info: [Subversion Indexer Paused with "Too many open files" Error](#).

### 7. Start Crucible!

In a command prompt, change directory to `<Crucible home directory>` and run this:

```
bin\start.bat
```

After a few moments, in a web browser on the same machine, go to <http://localhost:8060/> (or, from another machine, type <http://hostname:8060/>, where `hostname` is the name of the machine where you extracted Crucible).

Enter your license, then an admin password, to finish the setup.

You can postpone setting up JIRA integration until later if you wish; see [Configuring JIRA integration in the Setup Wizard](#).

### 8. Connect to an external database (recommended)

If you intend to use this Crucible installation in a production environment, it is highly recommended that you use one of the [supported](#) external databases. See [Migrating to an external database](#).

If you are evaluating Crucible, or don't wish to do this now, Crucible will happily use its embedded database, and you can easily migrate later.

### 9. Set up your mail server

Configure the Crucible email server so that users can get notifications from Crucible. See [Configuring SMTP](#).

### 10. Add users and repositories

Now is the time to set up your users in Crucible, and to tell Crucible about any existing repositories you have. Please read [Starting to use Crucible](#) for the details.

Crucible will perform an initial index of your repositories, during which it accesses, indexes and organises a view of your repositories (including all historical items) back to the earliest commits. If you are evaluating Crucible, we suggest that you index a single project, so you can use Crucible as soon as possible. If you choose to index your entire repository, be aware that this can take a long time (possibly days) for massive or complex repositories and can be more complex to set up (especially for Subversion). The basic process is slightly different for each SCM type.

### 11. Stop Crucible (optional)

In a command prompt, change directory to `<Crucible home directory>` and run this:

```
bin\stop.bat
```


## Running Crucible as a Windows service

Crucible can be run as a service under Microsoft Windows using a [Java Service Wrapper](#).

The service wrapper provides the following benefits:

- Allows Crucible, which is a Java application, to be run as a Windows Service.
- No need for a user to be logged on to the system at all times, or for a command prompt to be open and running on the desktop to be able to run Crucible.
- The ability to run Crucible in the background as a service, for improved convenience, system performance and security.
- Crucible is launched automatically on system startup and does not require that a user be logged in.

- Users are not able to stop, start, or otherwise tamper with Crucible unless they are an administrator.
- Provides advanced failover, error recovery, and analysis features to make sure that Crucible has the maximum possible uptime.

 Please note that:

- This page should be read in conjunction with [Installing Crucible on Windows](#).
- You should use 32-bit Java to run the service wrapper provided via the link in the install instructions below, even on a 64-bit machine.
- You should use the Java JDK, rather than the JRE, to take advantage of the `-server` parameter, provided in the Wrapper configuration of [wrapper.zip](#), which enables the [Java HotSpot\(TM\) Server VM](#). See the [note](#) below for details.

#### On this page:

- [Installing the Java Service Wrapper](#)
- [Setting Crucible environment variables for Windows Services](#)
- [Troubleshooting](#)
  - [Extracting files from wrapper.zip](#)
  - [Warning when using 64-bit Java JDK](#)
  - [Wrapper configuration and "-server" parameter](#)

#### Related pages:

- [Installing Crucible on Windows](#)

### Installing the Java Service Wrapper

#### To install the Java Service Wrapper on Windows:

1. Download [wrapper.zip](#) from [here](#).
2. Unzip the wrapper zip file into your `<Crucible home directory>` (that is, the directory into which Crucible was originally installed). Note, the resulting folder structure should be similar to `<Crucible home directory>\wrapper` or `<Crucible home directory>\wrapper\bin`, etc and NOT `<Crucible home directory>\wrapper\wrapper` or `<Crucible home directory>\wrapper\wrapper\bin`. The location of the wrapper directory is important.
3. Tell the wrapper where to find the Java JDK by editing the `<Crucible home directory>\wrapper\conf\wrapper.conf` file, replacing this:

```
# Java Application
wrapper.java.command=java
```

with the following, and comment out the option you don't wish to use:

```
# Java Application

# Option 1: If you have JAVA_HOME defined in your Windows system environment
variables, then you can use:
wrapper.java.command=%JAVA_HOME%/bin/java


# Option 2: If you have multiple JDKs installed, and you don't want to use a
Windows environment variable to specify which one to use, provide the absolute
path to where the JDK is installed (e.g. C:/Java/jdk1.7.0_05/bin/java):
wrapper.java.command=C:/path to Java location/bin/java
```

To get confirmation in the wrapper log that the wrapper is using the correct Java JDK, add the following lines to the `wrapper.conf` file:

```
# Tell the Wrapper to log the full generated Java command line.
wrapper.java.command.loglevel=INF
```

You can find the logs at <Crucible home directory>\var\log\wrapper.log.

4. Set the FISHEYE\_INST environment variable (and other Crucible-specific environment variables) in the <Crucible home directory>\wrapper\conf\wrapper.conf file, following the [instructions](#) below.
5. Install Crucible as a service as follows:
  - a. Open an Administrator command prompt by searching for 'Command prompt' in the Windows Start menu, right-clicking on **Command Prompt** and then choosing **Run as administrator**.
  - b. Change directory to <Crucible home directory>\wrapper\bin and run Fisheye-Install-NTService.bat. If you run into any problems starting the wrapper, you'll find its logs in <Crucible home directory>\var\log\wrapper.log.
6. Start the Crucible service (which has the name 'Fisheye') from the Windows Control Panel; you can search in the Start menu for 'services', and in the list of services, right-click on the 'Fisheye' item and choose **Start**. You can also stop the Crucible service in this way.

 Please note that:

- If you make changes to the wrapper.conf file, having already started the service, you need to stop and then restart the service for it to make use of the changed configuration.
- If in future you move the Crucible home directory, you will need to uninstall (using Fisheye-Uninstall-NTService.bat) and then reinstall the Crucible service.

#### Setting Crucible environment variables for Windows Services

Please note, that if you run Crucible as a Windows service, any Crucible-specific [environment variables](#) must be set in your <Crucible home directory>\wrapper\conf\wrapper.conf file.

If you run into any problems starting the wrapper, you'll find its logs in <Crucible home directory>\var\log\wrapper.log.

If there are other Java parameters you wish to add, then you will need to add them under the additional parameters section, e.g.

```
# JDK Additional Parameters for jmx
wrapper.java.additional.4=-Dcom.sun.management.jmxremote
wrapper.java.additional.5=-Dcom.sun.management.jmxremote.port=4242
wrapper.java.additional.6=-Dcom.sun.management.jmxremote.authenticate=false
wrapper.java.additional.7=-Dcom.sun.management.jmxremote.ssl=false
wrapper.java.additional.8=-Dcom.sun.management.jmxremote.authenticate=false
wrapper.java.additional.9=-Dcom.sun.management.jmxremote.password.file=.
/wrapper/jmxremote.password
wrapper.java.additional.10=-Dwrapper.mbean.name="wrapper:type=Java
Service Wrapper Control"
```

To add the FISHEYE\_INST environment variable, the Java MaxPermSize parameter, or the -Xrs options, use the following:

```
wrapper.java.additional.11=-Dfisheye.inst="c:/path/to/FISHEYE_INST"
wrapper.java.additional.12=-XX:MaxPermSize=128m
wrapper.java.additional.13=-Xrs
```

Note that the the -Xrs options should be used when running Crucible as a service under Windows to prevent the JVM closing when an interactive user logs out.

Your memory settings can also be found in this file:

```
# Initial Java Heap Size (in MB)
wrapper.java.initmemory=256

# Maximum Java Heap Size (in MB)
wrapper.java.maxmemory=1024
```

Increase these values if you have a large repository or expect to use more memory (init of 256, and a max of 1024 are the default values).

In Fisheye/Crucible 1.6.4 and higher, you can check the JVM input arguments by clicking **System info**, under 'System Settings' in the admin area.

## Troubleshooting

### Extracting files from wrapper.zip

Some customers have reported trouble running the wrapper. These can be avoided by:

- Uncompressing wrapper.zip with Winzip or WinRar rather than using the **Extract All** command in the Windows right-click contextual menu.
- If the wrapper.zip filename appears green instead of black in Windows Explorer, decrypt it, prior to unzipping its contents, by right-clicking on the file, choose **Properties**, click the **Advanced** button, then clear the **Encrypt contents to secure data** checkbox.

### Warning when using 64-bit Java JDK

When using a 64-bit Java JDK with the wrapper obtained via the link in the install instructions above, you may see the following in the wrapper.log file:

```
WARNING - Unable to load the Wrapper's native library 'wrapper.dll'. The file is located on the path
at the following location but could not be loaded:
C:\installs\service\fisheye28\wrapper\lib\wrapper.dll.
```

```
Please verify that the file is readable by the current user and that the file has not been corrupted in
any way. System signals will not be handled correctly.
```

This is caused by using a 64-bit JDK (even on a 64-bit machine). Changing to a 32-bit version of the JDK will prevent this warning. Community Edition versions of the 64-bit Windows Java Service Wrapper are not currently available.

### Wrapper configuration and "-server" parameter

Please note that the wrapper configuration provided above uses the `-server` parameter to enable the [Java HotSpot\(TM\) Server VM](#). This feature is only available if you use the JDK. If you use the JRE you will likely get the following error in your logs:

```
INFO | jvm 1 | 2010/12/20 18:19:28 | Error: missing 'server' JVM at 'C:\Program
Files\Java\jre6\bin\server\jvm.dll'.
```

A common issue is that customers remove the `-server` parameter from the `wrapper.conf` file. Please note that if you do this, the wrapper script will ignore any of the following JVM parameters in the file unless you change the sequence to be in order, starting from `wrapper.java.additional.1`. This is an issue with the Wrapper application.

In this situation it's best to install and run Fisheye/Crucible with the JDK to get all the advantages of the `-server` functionality. You also need to force the wrapper to use the JDK by specifying the path to the Java JDK in the `wrapper.conf` file, as described in the installation instructions above.

## Installing Crucible on Linux and Mac

Hey! We're going to install Crucible on a Linux box, or a Mac. There are a few steps involved, but we think you'll find it easy to follow along. If you already have FishEye installed, you should read [Upgrading from FishEye to Crucible](#) instead.

### 1. Check supported platforms

Better check the [Supported platforms](#) page first; it lists the application servers, databases, operating systems, web browsers and JDKs that we have tested Crucible with, and that we recommend.

Atlassian only officially supports Crucible running on x86 hardware and 64-bit derivatives of x86 hardware.

#### Related pages:

- [Installing Crucible on Windows](#)
- [Starting to use Crucible](#)
- [Supported platforms](#)

### 2. Check your version of Java

In a terminal, run this:

```
java -version
```

The version of Java should be **1.6.0** or later (**1.7.0** or later for OpenJDK).

▼ [If you don't see a supported version of Java, then get Java...](#)

Download and install the [Oracle Java Platform JDK](#), or [OpenJDK](#).

Now try running 'java -version' again to check the installation. The version of Java should be **1.6.0** or later (**1.7.0** or later for OpenJDK).

### 3. Check that the system can find Java

In a terminal, run this:

```
echo $JAVA_HOME
```

You should see a path something like:

|       |   |
|-------|---|
| OSX   | /System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home/ |
| Linux | /usr/lib/jvm/default-java   |

▼ [If you don't see a path to the Java location, then set JAVA\\_HOME...](#)

| Linux  | Mac  |
|--|--|
| <p>Do either of the following:</p> <ul style="list-style-type: none"> <li>If <code>JAVA_HOME</code> is not set, log in with 'root' level permissions and run:</li> </ul> <pre>echo JAVA_HOME="path/to/JAVA_HOME" &gt;&gt; /etc/environment</pre> <p>where <code>path/to/JAVA_HOME</code> may be like: <code>/usr/lib/jvm/default-java</code></p> <ul style="list-style-type: none"> <li>If <code>JAVA_HOME</code> needs to be changed, open the <code>/etc/environment</code> file in a text editor and modify the value for <code>JAVA_HOME</code> to:</li> </ul> <pre>JAVA_HOME="path/to/JAVA_HOME"</pre> <p>It should look like:</p> <pre>JAVA_HOME=/usr/lib/jvm/default-java</pre> | <p>Insert the following in your <code>~/.profile</code> file:</p> <pre>JAVA_HOME="path/to/JAVA_HOME" export JAVA_HOME</pre> <p>where <code>path/to/JAVA_HOME</code> may be like:</p> <pre>/System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home/</pre> <p>Refresh your <code>~/.profile</code> in the terminal and confirm that <code>JAVA_HOME</code> is set:</p> <pre>source ~/.profile \$JAVA_HOME/bin/java -version</pre> <p>You should see a version of Java that is <b>1.6.0</b> or higher, like this:</p> <pre>java version "1.6.0_24"</pre> |

#### 4. Create a dedicated Crucible user (recommended)

For production installations, we recommend that you create a new dedicated user that will run Crucible on your system. This user:

- Should *not* have admin privileges.
- Should be a non-privileged user with read, write and execute access on the Crucible home (install) directory and instance (data) directory. These directories are described below.
- Should only have read access to your repositories.

If you created a dedicated Crucible user, ensure you are logged in as this user to complete the remaining instructions.

#### 5. Now it's time to get Crucible

Download [Crucible](#) from the Atlassian download site.

Extract the downloaded file to an install location:

- Folder names in the path to your Crucible executable should not have spaces in them. The path to the extracted directory is referred to as the `<Crucible home directory>` in these instructions. If you use FishEye and Crucible together, they run as one instance, and use the same home directory – see [Crucible and FishEye](#).
- If you expect to have a large number of users for this Crucible installation, and Crucible will be [connected to an external database](#), consider installing Crucible on a different server from the one running the external database, for improved performance.

#### 6. Tell Crucible where to store your data


The Crucible instance directory is where your Crucible data is stored.

- Create your Crucible instance directory.
- Tell Crucible where you created it by adding a `FISHEYE_INST` environment variable as follows:



| Linux  | Mac  |
|--|--|
| <p>Open the <code>/etc/environment</code> file in a text editor and insert :</p> <pre>FISHEYE_INST="path/to/&lt;Crucible instance directory&gt;"</pre> | <p>Open the <code>~/.profile</code> file for the current user in a text editor and insert:</p> <pre>FISHEYE_INST="path/to/&lt;Crucible instance directory&gt;" export FISHEYE_INST</pre> |

- Now copy the newly extracted `<Crucible home directory>\config.xml` file to the root of your new Crucible instance directory.

 You *should not* locate your Crucible instance directory inside the `<Crucible home directory>` — they should be entirely separate locations. If you do put the instance directory in the `<Crucible home directory>` it will be overwritten, and lost, when Crucible gets upgraded. And by the way, you'll need separate Crucible instance directories if you want to run multiple copies of Crucible.

If you have a large number of repositories, we recommend you increase the default number of files that FishEye is allowed to open. See the following knowledge base article for more info: [Subversion Indexer Paused with "Too many open files" Error](#).

## 7. Start Crucible!

In a terminal, change directory to `<Crucible home directory>` and run this:

```
bin/start.sh
```

After a few moments, in a web browser on the same machine, go to <http://localhost:8060/> (or, from another machine, type <http://hostname:8060/> , where `hostname` is the name of the machine where you extracted Crucible).

Enter your license, then an admin password, to finish the setup.

You can postpone setting up JIRA integration until later if you wish; see [Configuring JIRA integration in the Setup Wizard](#).

## 8. Connect to an external database (recommended)

If you intend to use this Crucible installation in a production environment, it is highly recommended that you use one of the [supported](#) external databases. See [Migrating to an external database](#).

If you are evaluating Crucible, or don't wish to do this now, Crucible will happily use its embedded database, and you can easily migrate later.

## 9. Set up your mail server

Configure the Crucible email server so that users can get notifications from Crucible. See [Configuring SMTP](#).

## 10. Add users and repositories

Now is the time to set up your users in Crucible, and to tell Crucible about any existing repositories you have. Please read [Starting to use Crucible](#) for the details.

Crucible will perform an initial index of your repositories, during which it accesses, indexes and organizes a view of your repositories (including all historical items) back to the earliest commits. If you are evaluating Crucible, we suggest that you index a single project, so you can use Crucible as soon as possible. If you choose to index your entire repository, be aware that this can take a long time (possibly days) for massive or complex repositories and can be more complex to set up (especially for Subversion). The basic process is slightly different for each SCM type.



## 11. Stop Crucible (optional)

In a terminal, change directory to <Crucible home directory> and run this:

```
bin/stop.sh
```

## Configuring JIRA Integration in the Setup Wizard

This page describes the 'Connect to JIRA' screen of the Crucible setup wizard.

You can connect your application to a JIRA server, to manage your users via JIRA and share information with JIRA. When you are installing the application, the setup wizard gives you the opportunity to configure the JIRA connection automatically. This is a quick way of setting up your JIRA integration with the most common options.

You can also configure the JIRA connections via the application administration screens. In that case, you will need to set up connections individually. There are two parts to the integration process:

- A peer-to-peer link between JIRA and the application for sharing information and facilitating integration features. This link is set up via Application Links.
- A client-server link between the application and JIRA for delegating user and group management to your JIRA server.

**Requirements:** You need JIRA 4.3 or later.

### On this page:

- [Connecting to JIRA in the Setup Wizard](#)
- [Troubleshooting](#)
- [Notes](#)

### Related pages:

- [Linking Crucible to JIRA](#)
- [User management limitations and recommendations](#)
- [JIRA integration in Crucible](#)

## Connecting to JIRA in the Setup Wizard

**To configure JIRA integration while running the Crucible setup wizard:**

1. Enter the following information on the '**Connect to JIRA**' step of the setup wizard:
  - **JIRA Base URL**– The web address of your JIRA server. Examples:

```
http://www.example.com:8080/jira/  
http://jira.example.com
```

- **Admin Username and Admin Password** – The credentials of a user with the 'JIRA System Administrators' global permission in JIRA.
  - **FishEye/Crucible Base URL** – Click 'Advanced Options' to see this field. JIRA will use this URL to access your FishEye/Crucible server. The URL you give here will override the base URL specified in your FishEye/Crucible administration console, for the purposes of the JIRA connection.
  - **Groups to synchronize** – Click 'Advanced Options' to see this field. Select at least one JIRA group to synchronize. The default group is `jira-users`. JIRA will synchronize all changes in the user information on a regular basis. The default synchronization interval is 1 hour.
  - **Admin Groups** – Click 'Advanced Options' to see this field. Specify a JIRA group whose members should have administrative access to FishEye/Crucible. The default group is `jira-administrators`.
2. Click the '**Connect to JIRA**' button.
  3. Finish the setup process.
  4. Configure the following setting in JIRA: [Allow remote API access](#).

*Screenshot: Connecting to JIRA in the FishEye/Crucible setup wizard*

## Troubleshooting

▼ [Click to see troubleshooting information...](#)

This section describes the possible problems that may occur when integrating your application with JIRA via the setup wizard, and the solutions for each problem.

| Symptom  | Cause  | Solution   |
|--|--|--|
| <p>The setup wizard displays one of the following error messages:</p> <ul style="list-style-type: none"> <li>Failed to create application link from JIRA server at &lt;URL&gt; to this &lt;application&gt; server at &lt;URL&gt;.</li> <li>Failed to create application link from this &lt;application&gt; server at &lt;URL&gt; to JIRA server at &lt;URL&gt;.</li> <li>Failed to authenticate application link from JIRA server at &lt;URL&gt; to this &lt;application&gt; server at &lt;URL&gt;.</li> <li>Failed to authenticate application link from &lt;application&gt; server at &lt;URL&gt; to this JIRA server at &lt;URL&gt;.</li> </ul> | <p>The setup wizard failed to complete registration of the peer-to-peer application link with JIRA. JIRA integration is only partially configured.</p> | <p>Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</p> |

|   |  |   |
|---|--|---|
| <p>The setup wizard displays one of the following error messages:</p> <ul style="list-style-type: none"> <li>Failed to register &lt;application&gt; configuration in JIRA for shared user management. Received invalid response from JIRA: &lt;response&gt;</li> <li>Failed to register &lt;application&gt; configuration in JIRA for shared user management. Received: &lt;response&gt;</li> </ul> | <p>The setup wizard failed to complete registration of the client-server link with JIRA for user management. The peer-to-peer link was successfully created, but integration is only partially configured.</p>   | <p>Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</p>  |
| <p>The setup wizard displays the following error message:</p> <ul style="list-style-type: none"> <li>Error setting Crowd authentication</li> </ul>  | <p>The setup wizard successfully established the peer-to-peer link with JIRA, but could not persist the client-server link for user management in your <code>config.xml</code> file. This may be caused by a problem in your environment, such as a full disk.</p>   | <p>Please investigate and fix the problem that prevented the application from saving the configuration file to disk. Then remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</p>   |
| <p>The setup wizard displays the following error message:</p> <ul style="list-style-type: none"> <li>Error reloading Crowd authentication</li> </ul>  | <p>The setup wizard has completed the integration of your application with JIRA, but is unable to start synchronizing the JIRA users with your application.</p>  | <p>Restart your application. You should then be able to continue with the setup wizard. If this solution does not work, please contact <a href="#">Atlassian Support</a>.</p>   |
| <p>The setup wizard displays the following error message:</p> <ul style="list-style-type: none"> <li>An error occurred: <code>java.lang.IllegalStateException: Could not create the application in JIRA/Crowd (code: 500)</code>. Please refer to the logs for details.</li> </ul>  | <p>The setup wizard has not completed the integration of your application with JIRA. The links are only partially configured. The problem occurred because there is already a user management configuration in JIRA for this &lt;application&gt; URL.</p>  | <p>Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup. Detailed instructions are below.</p>  |
| <p>No users can log in after you have set up the application with JIRA integration.</p>   | <p>Possible causes:</p> <ul style="list-style-type: none"> <li>There are no users in the group that you specified on the 'Connect to JIRA' screen.</li> <li>For FishEye: There are no groups specified in the 'groups to synchronize' section of your administration console.</li> <li>For Stash: You may not have granted any JIRA groups or users permissions to log in to Stash.</li> </ul> | <p>Go to JIRA and add some usernames to the group.</p> <ul style="list-style-type: none"> <li>For FishEye: Go to the FishEye administration screens and specify at least one group to synchronize. The default is '<b>jira-users</b>'.</li> <li>For Stash: Grant the <b>Stash User</b> permission to the relevant JIRA groups on the Stash <a href="#">Global permissions</a> page.</li> </ul> <p>If this solution does not work, please contact <a href="#">Atlassian Support</a>.</p> |

#### Solution 1: Removing a Partial Configuration – The Easiest Way

If the application's setup wizard fails part-way through setting up the JIRA integration, you may need to remove the partial configuration from JIRA before continuing with your application setup. Please follow the steps below.

Remove the partial configuration if it exists, try the 'Connect to JIRA' step again, and then continue with the setup wizard:

1. Log in to JIRA as a user with the '**JIRA System Administrators**' global permission.
2. Click the '**Administration**' link on the JIRA top navigation bar.
3. Remove the application link from JIRA, if it exists:
  - a. Click **Application Links** in the JIRA administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
  - b. Look for a link to your application. It will have a base URL of the application linked to JIRA. For example:
    - If you want to remove a link between JIRA and FishEye, look for the one where the **Application URL** matches the base URL of your FishEye server.
    - If you want to remove a link between JIRA and Confluence, look for the one where the **Application URL** matches the base URL of your Confluence server.
    - If you want to remove a link between JIRA and Stash, look for the one where the **Application URL** matches the base URL of your Stash server.
  - c. Click **Delete** next to the application link that you want to delete.
  - d. A confirmation screen will appear. Click **Confirm** to delete the application link.
4. Remove the user management configuration from JIRA, if it exists:
  - a. Go to the JIRA administration screen for configuring the applications that have been set up to use JIRA for user management:
    - In JIRA 4.3: Click '**Other Applications**' in the '**Users, Groups & Roles**' section of the JIRA administration screen.
    - In JIRA 4.4: Select '**Administration**' > '**Users**' > '**JIRA User Server**'.
  - b. Look for a link to your application. It will have a name matching this format:

```
<Type> - <HostName> - <Application ID>
```

For example:

```
FishEye / Crucible - localhost -
92004b08-5657-3048-b5dc-f886e662ba15
```

Or:

```
Confluence - localhost -
92004b08-5657-3048-b5dc-f886e662ba15
```

If you have multiple servers of the same type running on the same host, you will need to match the application ID of your application with the one shown in JIRA. To find the application ID:

- Go to the following URL in your browser:

```
<baseUrl>/rest/applinks/1.0/manifest
```

Replace `<baseUrl>` with the base URL of your application.

For example:

```
http://localhost:8060/rest/applinks/1.0/manifest
```

- The application links manifest will appear. Check the application ID in the `<id>` element.
  - c. In JIRA, click '**Delete**' next to the application that you want to remove.
5. Go back to the setup wizard and try the 'Connect to JIRA' step again.

#### Solution 2: Removing a Partial Configuration – The Longer Way

If solution 1 above does not work, you may need to remove the partial configuration and then add the full integration manually. Please follow these steps:

1. Skip the 'Connect to JIRA' step and continue with the setup wizard, to complete the initial configuration of the application.
2. Log in to JIRA as a user with the '**JIRA System Administrators**' global permission.
3. Click the '**Administration**' link on the JIRA top navigation bar.
4. Remove the application link from JIRA, if it exists:
  - a. Click **Application Links** in the JIRA administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
  - b. Look for a link to your application. It will have a base URL of the application linked to JIRA. For example:
    - If you want to remove a link between JIRA and FishEye, look for the one where the **Application URL** matches the base URL of your FishEye server.
    - If you want to remove a link between JIRA and Confluence, look for the one where the **Application URL** matches the base URL of your Confluence server.
    - If you want to remove a link between JIRA and Stash, look for the one where the **Application URL** matches the base URL of your Stash server.
  - c. Click **Delete** next to the application link that you want to delete.
  - d. A confirmation screen will appear. Click **Confirm** to delete the application link.
5. Remove the user management configuration from JIRA, if it exists:
  - a. Go to the JIRA administration screen for configuring the applications that have been set up to use JIRA for user management:
    - In JIRA 4.3: Click '**Other Applications**' in the '**Users, Groups & Roles**' section of the JIRA administration screen.
    - In JIRA 4.4: Select '**Administration**' > '**Users**' > '**JIRA User Server**'.
  - b. Look for a link to your application. It will have a name matching this format:

```
<Type> - <HostName> - <Application ID>
```

For example:

```
FishEye / Crucible - localhost -  
92004b08-5657-3048-b5dc-f886e662ba15
```

Or:

```
Confluence - localhost -  
92004b08-5657-3048-b5dc-f886e662ba15
```

If you have multiple servers of the same type running on the same host, you will need to match the application ID of your application with the one shown in JIRA. To find the application ID:

- Go to the following URL in your browser:

```
<baseUrl>/rest/applinks/1.0/manifest
```

Replace <baseUrl> with the base URL of your application.

For example:

```
http://localhost:8060/rest/applinks/1.0/manifest
```

- The application links manifest will appear. Check the application ID in the <id> element.
  - c. In JIRA, click '**Delete**' next to the application that you want to remove.
6. Add the application link in JIRA again, so that you now have a two-way trusted link between JIRA and your application:

- a. Click **Add Application Link**. Step 1 of the link wizard will appear.
  - b. Enter the **server URL** of the application that you want to link to (the 'remote application').
  - c. Click **Next**.
  - d. Enter the following information:
    - **Create a link back to this server** – Check to add a two-way link between the two applications.
    - **Username and Password** – Enter the credentials for a username that has administrator access to the remote application.  
*Note:* These credentials are only used to authenticate you to the remote application, so that Application Links can make the changes required for the new link. The credentials are not saved.
    - **Reciprocal Link URL** – The URL you give here will override the base URL specified in your remote application's administration console, for the purposes of the application links connection. Application Links will use this URL to access the remote application.
  - e. Click **Next**.
  - f. Enter the information required to configure authentication for your application link:
    - **The servers have the same set of users** – Check this box, because the users are the same in both applications.
    - **These servers fully trust each other** – Check this box, because you trust the code in both applications and are sure both applications will maintain the security of their private keys.  
*For more information about configuring authentication, see [Configuring Authentication for an Application Link](#).*
  - g. Click **Create**.
7. Configure a new connection for user management in JIRA:
    - a. Go to the JIRA administration screen for configuring the applications that have been set up to use JIRA for user management:
      - In JIRA 4.3: Click '**Other Applications**' in the '**Users, Groups & Roles**' section of the JIRA administration screen.
      - In JIRA 4.4: Select '**Administration**' > '**Users**' > '**JIRA User Server**'.
    - b. **Add** an application.
    - c. Enter the **application name** and **password** that your application will use when accessing JIRA.
    - d. Enter the **IP address** or addresses of your application. Valid values are:
      - A full IP address, e.g. 192.168.10.12.
      - A wildcard IP range, using CIDR notation, e.g. 192.168.10.1/16. For more information, see the introduction to [CIDR notation on Wikipedia](#) and [RFC 4632](#).
      - **Save** the new application.
  8. Set up the JIRA user directory in the application.
    - For Confluence:
      - a. Go to the **Confluence Administration Console**.
      - b. Click '**User Directories**' in the left-hand panel.
      - c. **Add** a directory and select type '**Atlassian JIRA**'.
      - d. Enter the following information:
        - **Name** – Enter the name of your JIRA server.
        - **Server URL** – Enter web address of your JIRA server. Examples:
 

```
http://www.example.com:8080/jira/
http://jira.example.com
```
        - **Application name and Application password** – Enter the values that you defined for Confluence in the settings on JIRA.
      - e. Save the directory settings.
      - f. Define the **directory order** by clicking the blue up- and down-arrows next to each directory on the '**User Directories**' screen.  
 For details see [Connecting to Crowd or JIRA for User Management](#).
    - For FishEye/Crucible:
      - a. Click **Authentication** (under 'Security Settings').
      - b. Click **Setup JIRA/Crowd authentication**. Note, if LDAP authentication has already been set up, you will need to remove that before connecting to JIRA for user management.
      - c. Make the following settings:

|   |  |
|---|--|
| <b>Authenticate against</b>                     | Select a <b>JIRA instance</b>  |
| <b>Application name and password</b>            | Enter the values that you defined for your application in the settings on JIRA.  |
| <b>JIRA URL</b>                                 | <p>The web address of your JIRA server. Examples:</p> <pre>http://www.example.com:8080/jira/ http://jira.example.com</pre>   |
| <b>Auto-add</b>                                 | Select <b>Create a FishEye user on successful login</b> so that your JIRA users will be automatically added as a FishEye user when they first log in.                      |
| <b>Periodically synchronise users with JIRA</b> | Select <b>Yes</b> to ensure that JIRA will synchronize all changes in the user information on a regular basis. Change the value for <b>Synchronise Period</b> if required. |
| <b>When Synchronisation Happens</b>             | Select an option depending on whether you want to allow changes to user attributes from within FishEye.  |
| <b>Single Sign On</b>                           | Select <b>Disabled</b> . SSO is not available when using JIRA for user management and if enabled will make the integration fail.   |

- d. Click **Next** and select at least one user group to be synchronised from JIRA. If necessary, you could create a new group in JIRA, such as 'fisheye-users', and select this group here.
- e. Click **Save**.
- For Stash:
  - a. Go to the Stash administration area.
  - b. Click **User Directories** in the left-hand panel.
  - c. **Add** a directory and select type **Atlassian JIRA**.
  - d. Enter the following information:
    - **Name** – Enter the name of your JIRA server.
    - **Server URL** – Enter web address of your JIRA server. Examples:
 

```
http://www.example.com:8080/jira/
http://jira.example.com
```
    - **Application name and Application password** – Enter the values that you defined for Stash in the settings on JIRA.
  - e. Save the directory settings.
  - f. Define the directory order by clicking the blue up- and down-arrows next to each directory on the 'User Directories' screen.  
For details see [Connecting Stash to JIRA for user management](#).

## Notes



When you connect to JIRA in the setup wizard, the setup procedure will configure **Trusted Applications authentication** for your application. Please be aware of the following security implications:

- Trusted applications are a **potential security risk**. When you configure Trusted Applications authentication, you are allowing one application to access another as any user. This allows all of the built-in security measures to be bypassed. Do not configure a trusted application unless you know that all code in the application you are trusting will behave itself at all times, and you are sure that the application will maintain the security of its private key.

## Starting to use Crucible

This page introduces the basics of using Crucible. By the end, you'll know how to:

- [Add a repository](#)
- [Create a project](#)
- [Create and perform reviews](#)

For more information, see the [Crucible user's guide](#).

### Assumptions

We're assuming that:

- You have installed and started the latest version of Crucible. See the details at [Installing Crucible on Windows](#) or [Installing Crucible on Linux and Mac](#).
- You are using a [supported browser](#).
- You have admin permission in Crucible.

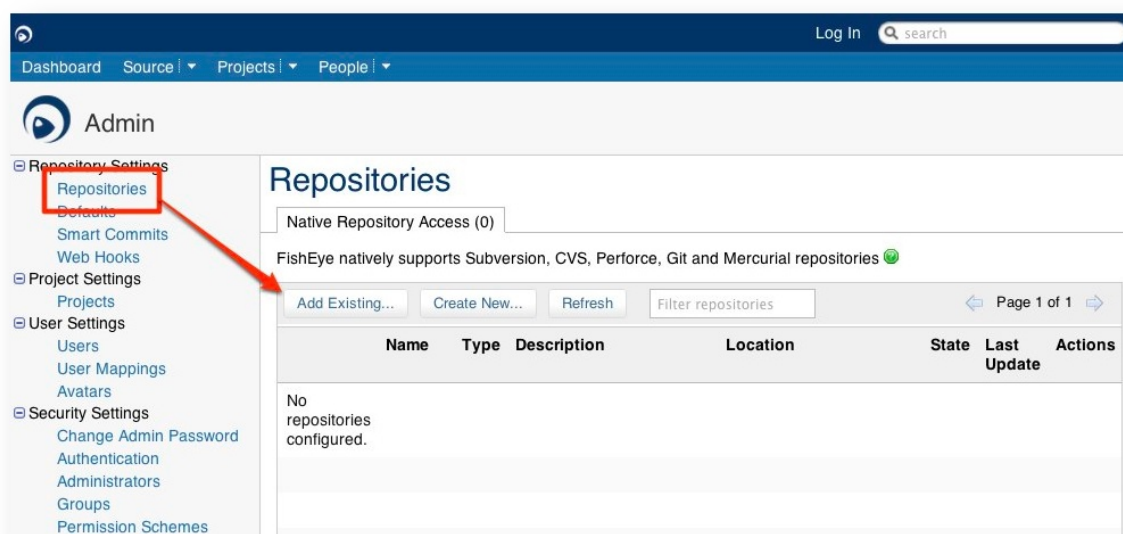
### Add a repository

First up we're going to add a repository to Crucible.

Go to the Admin area by clicking on the 'cog' at the top right and choosing **Administration**:



Click on **Add Existing...** in the **Repositories** listing of the Administration area.



Choose the repository type and fill in the name and description.



**Add Repository - Page 1 of 3**

**Basic Details**

Repository Type: Mercurial

Name: \*  ?

Description:  ?

Back Next Add Cancel

In the repository configuration put the location of your repository. Fill in the authentication details if necessary.

**Add Repository - Page 2 of 3**

**Mercurial Connection Details**

Repository Location: \*  ?

**Mercurial Authentication**

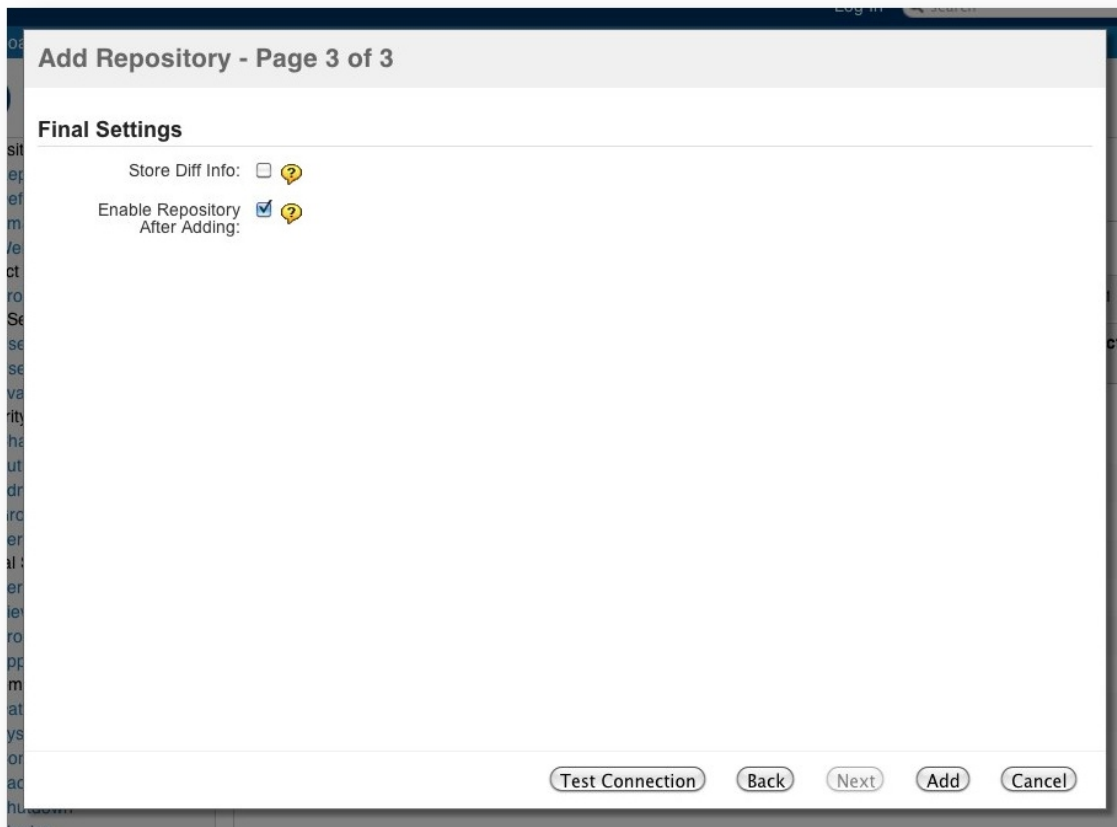
Authentication Style: No authentication ?

FishEye will not add any authentication to requests. Authentication will be handled transparently by the SCM.

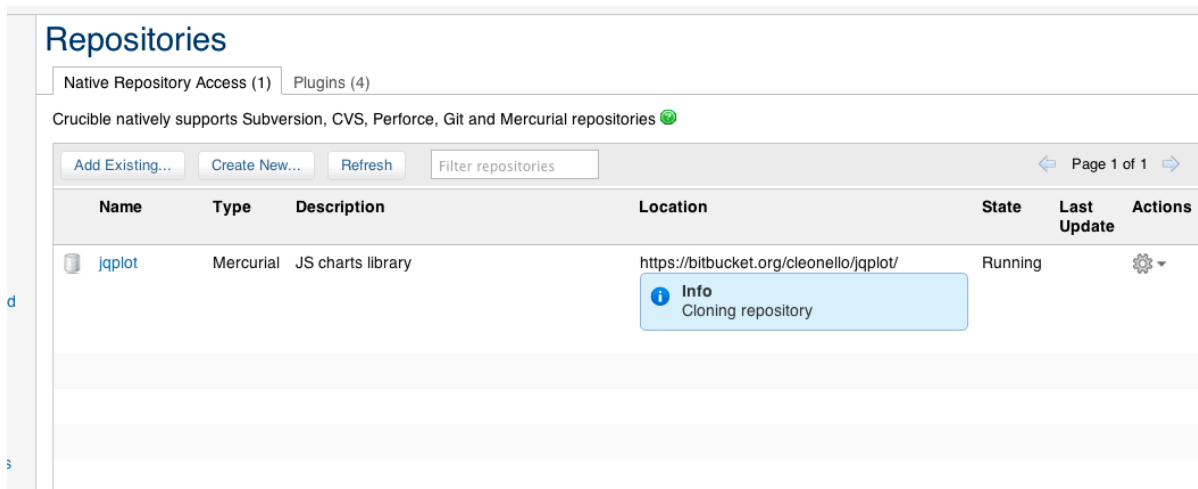
☐ Show advanced settings

Test Connection Back Next Add Cancel

Finally indicate whether or not you would like diff indexing should be turned on and if the repository should not be indexed right away then click **Add** to finish the process.



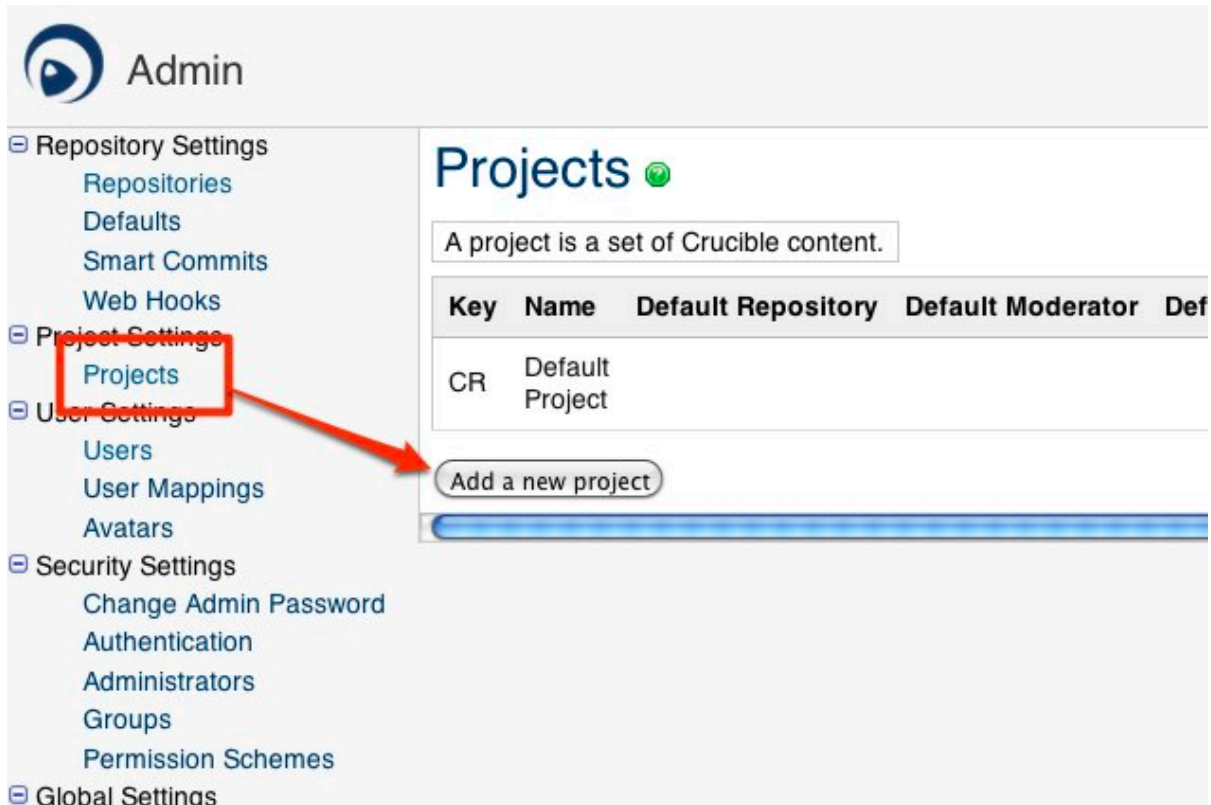
Your repository is now created in **Crucible** and the indexing should have started.



### Create a project in Crucible

Crucible comes with a default project, with the key CR, but you will probably want to create your own projects to contain your reviews. This is achieved in a couple of steps.

Click on **Add a new project** in the **Projects** listing of the Administration area.



**Admin**

- Repository Settings
  - Repositories
  - Defaults
  - Smart Commits
  - Web Hooks
- Project Settings**
  - Projects**
- User Settings
  - Users
  - User Mappings
  - Avatars
- Security Settings
  - Change Admin Password
  - Authentication
  - Administrators
  - Groups
  - Permission Schemes
- Global Settings

## Projects

A project is a set of Crucible content.

| Key | Name            | Default Repository | Default Moderator | Def |
|-----|-----------------|--------------------|-------------------|-----|
| CR  | Default Project |                    |                   |     |

[Add a new project](#)

Fill in the form with the default settings for the project and hit **Save**.

## Edit Project

### Identification

Name

Key

### Content

Default Repository

☒ Store the contents of files in reviews

### Permissions Scheme

Permission Scheme

### Moderator

☒ Enable the Moderator role for this project

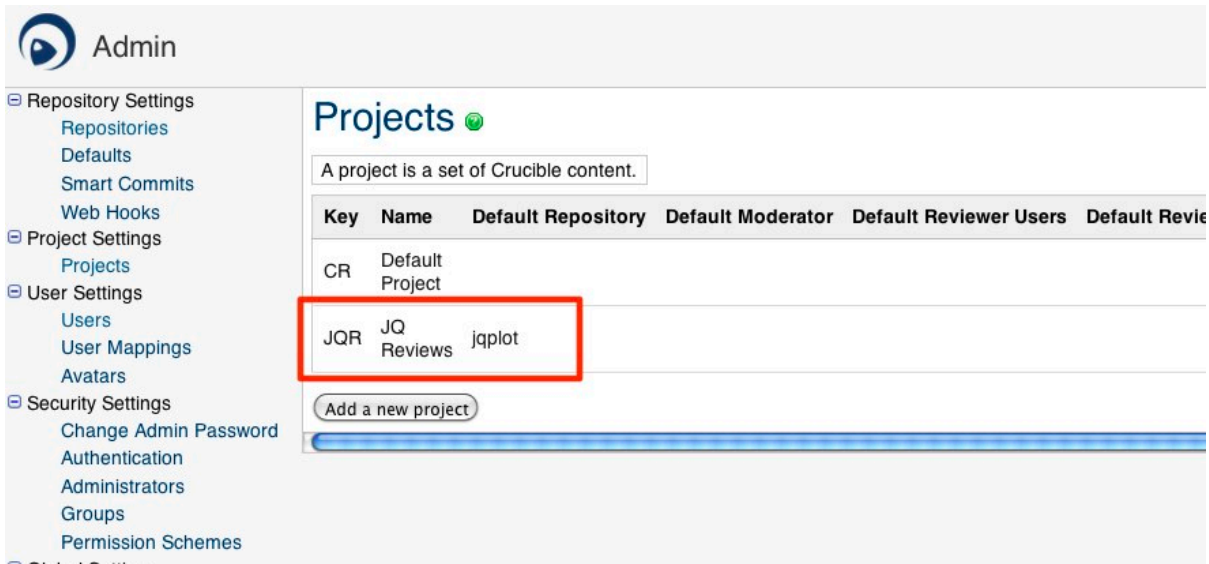
Default Moderator  Start typing a user name then press enter to select.

### Default Reviewers

☐ By default, allow anyone to join reviews after creation


Users  Start typing a user name then press enter to select.

You'll see your new project in the **Projects** listing.

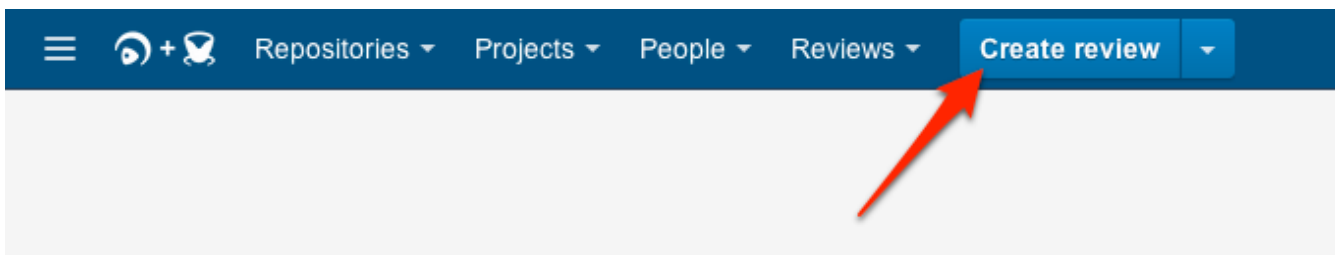


### Create a review

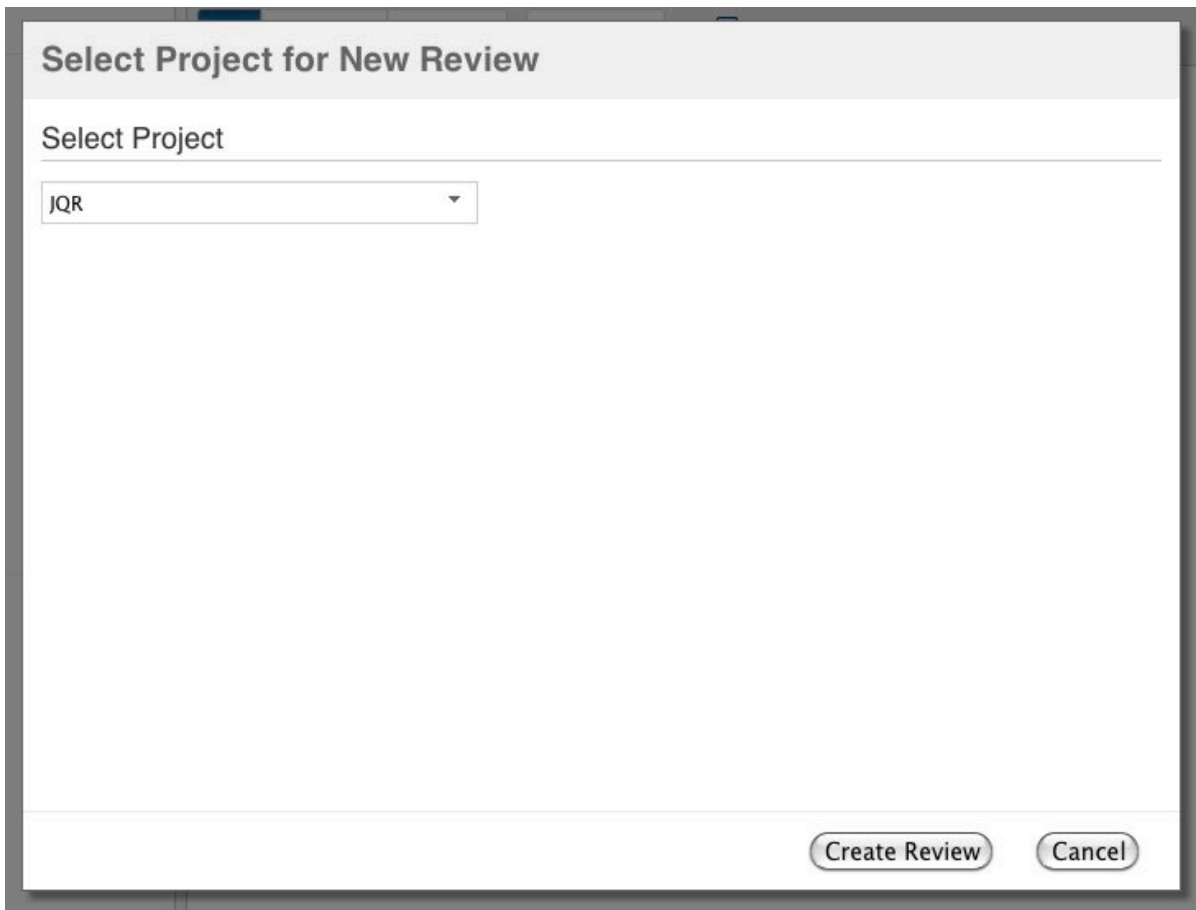
Now that you have your own project you can create reviews in it.

 You need to be logged in to create reviews.

From the **Dashboard** click on **Create review** to open the review creation form.



Choose the project in which you want to create the review.



The screenshot shows a dialog box titled "Select Project for New Review". Inside, there is a section labeled "Select Project" with a dropdown menu currently showing "JQR". At the bottom right of the dialog, there are two buttons: "Create Review" and "Cancel".

In the next screen click on **Browse Changesets** to see the list of changesets available to create the review.



The screenshot shows a dialog box titled "Add Content to Review JQR-1". It contains five options, each with an icon and a description:

- Browse Changesets**: Browse recent changes for revisions to add to this review. (This option is highlighted with a red border in the original image.)
- Explore Repositories**: Use a directory tree to find files.
- Search for Files**: Use Crucible's search to find revisions to add to this review.
- Pre-commit**: Upload a patch file to be reviewed - diffs of files will be extracted.
- Attachments**: Upload a file to be reviewed.

At the bottom right of the dialog, there are four buttons: "Edit Details", "Abandon Review", "Start Review", and "Done".

Select the changesets that you would like to be reviewed and then click on **Edit Details** to add reviewers.

**Add Content to Review JQR-3**

Repository:  Author:   
Branch:  Tag:   
Add to Review as:  [Remove all revisions from review](#)

[Earlier Changesets](#) Go to changeset:  No More Changesets

**Changes in jqplot**

**Monday 13 Aug**

- ☒ Chris Leonello <chris.leonello@gmail.com> 7:58 am
  - 1118:0d4d1a4fe522 changed 1 file default JQR-1 | JQR-2
    - Fix for horizontal waterfall plots.

**Friday 10 Aug**

- ☒ Chris Leonello <chris.leonello@gmail.com> 7:59 am
  - 1117:658794324deb changed 1 file default JQR-1 | JQR-2
    - Fixed example.
- 1116:ee59c9b6db6a changed 47 files default 7:51 am
  - Updated version and copyright.
- 1115:9e15fb8b84ed changed 1 file default 7:43 am
  - Fixed some lint.
- 1114:da13ae5eb3b2 changed 2 files default 4:29 am

[Add More Content](#) [Edit Details](#) [Abandon Review](#) [Start Review](#) [Done](#)

Once you have chosen your reviewers and updated the review information you can click on **Start Review** to begin the review process.

**Edit Review Details JQR-3**

Project: JQR

Title: Fix for horizontal waterfall plots.

Author: John Doe Moderator: John Doe

Reviewers:  [Suggest reviewers...](#) ☐ Allow anyone to join

- Sean Carter
- Donald Glover

Objectives:

Due Date:

Linked Review:  [Link](#)

Invited Reviewers:  [Invite](#)

[Add Content](#) [Abandon Review](#) [Start Review](#) [Done](#)

The review is now created and the reviewers will have been notified that a review is pending.

Dashboard Projects People Reviews **JQ Reviews** JQR-3

**Fix for horizontal waterfall plots.**

Under Review for a few seconds

Author & Moderator Reviewers

JQR-3

Details Objectives General Comments

jqplot (default)

examples

blockPlot.php

src/plugins

jqplot.barRenderer.js

Details

| Participant   | Role                   | Time Spent | Comments | Latest Comment |
|---------------|------------------------|------------|----------|----------------|
| John Doe      | Author & Moderator     | 0m         |          |                |
| Donald Glover | Reviewer - 0% complete |            |          |                |
| Sean Carter   | Reviewer - 0% complete |            |          |                |
| <b>Total</b>  |                        | <b>0m</b>  | <b>0</b> |                |

Files: 2

**Objectives** [Edit](#)

Please check if the CSS modifications are IE compliant

**General Comments**

There are no general comments on this review. [Add a general comment.](#)

In order to close a review where you are the moderator you need to click on **Summarize** in the top right and then close the review from the modal window.

Author & Moderator Reviewers

**Summarize Review**

**Summarize the review outcomes (optional)**

There's a bug with FF1 but an issue has been created for it.

[Continue Without Closing](#) [Close Review](#)

## Using Crucible

This page is an index of the content in the Crucible User's Guide. Click on a link below to see the desired page.

- Using the Crucible screens
  - Using the Review Dashboard
  - Browsing all reviews
  - Browsing source files

- [Crucible Icons](#)
- [Searching Crucible](#)
- [Viewing people's statistics in Crucible](#)
- [Browsing projects](#)
  - [Viewing Project Statistics](#)
- [Changing your User Profile](#)
- [Using favourites](#)
- [Using Keyboard Shortcuts in Crucible](#)
- [The Crucible workflow](#)
  - [Defining your workflow](#)
  - [Roles and Status Classifications](#)
- [Creating a review](#)
  - [Creating a review from FishEye](#)
  - [Creating a review from JIRA](#)
  - [Creating a review from a URL](#)
  - [Creating a Snippet Review](#)
  - [Creating reviews from the command line](#)
- [Adding content to the review](#)
  - [Iterative reviews](#)
  - [Creating patch files for pre-commit reviews](#)
- [Choosing reviewers](#)
- [Performing the review](#)
  - [Starting a review](#)
  - [Adding comments](#)
  - [Changeset discussions](#)
  - [Flagging defects](#)
  - [Creating JIRA issues from the review](#)
  - [Viewing reports](#)
    - [Review Coverage report](#)
  - [Completing your review](#)
  - [Using the Review History Dialog](#)
  - [Using RSS feeds in Crucible](#)
  - [Using Wiki Markup in Crucible](#)
  - [Tracking Crucible Review Metrics](#)
    - [Using Progress Tracking](#)
    - [Using Time Tracking](#)
- [JIRA integration in Crucible](#)
- [Summarising and closing the review](#)
- [Managing your reviews](#)
  - [Using Review Reminders](#)
  - [Sending a review's comments via email](#)
  - [Moving a Review to Another Project](#)
  - [Deleting a review](#)
- [Transitioning JIRA issues](#)


## Using the Crucible screens

This page gives an overview of the Crucible interface and the actions that can be carried out.

### On this page:

- [Dashboard](#)
- [Header](#)
- [Recent activity](#)
- [Related pages](#)

### Dashboard

The dashboard is the first screen you see when you log into FishEye/Crucible. The dashboard displays reviews and system activity related to you, and provides filtering for your recent repositories and projects. The dashboard can be accessed from anywhere in the application by clicking the FishEye/Crucible icon  in the [header](#).

Click **View review dashboard** to see more information about your reviews.



Screenshot: The Crucible dashboard (with FishEye), showing current reviews and recent activity

The screenshot shows the Crucible dashboard interface. At the top is a navigation bar with tabs for Repositories, Projects, People, and Reviews, along with a 'Create review' button and a search bar. Below the navigation bar is a 'Dashboard' header. The main content area is divided into two columns. The left column contains 'My reviews' and 'Recent activity'. The right column contains 'Repositories and projects' and 'Getting started'.

**My reviews**

| Key      | Status    | Title    | Author                     |
|----------|-----------|----------|----------------------------|
| TEST-313 | TO REVIEW | Untitled | Jurgen Spangl 9 months old |

[View review dashboard](#)

**Recent activity**

Buttons: All, Commits, Reviews, Expand all

**Thursday 18 Apr**

- Paul Watson 11:19 pm
  - 440a0e0 changed 0 files master, 2.4 and 141 more in stash
    - Automatic merge from 2.4 -> master By Paul Watson (2) and Michael Heemskerk (1) Via Pa...
  - da47994 changed 0 files master, 2.4 and 141 more in stash
    - Automatic merge from 2.3 -> 2.4 commit '251b4868e1db377c7129a8bc3e7b1b3dd107c4a0': ...
  - 251b486 changed 0 files master, 2.3 and 142 more in stash
    - Merge pull request #1526 in STASH/stash from ~PWATSON/stash:STASHDEV-3570-static-...
  - 4a2448a changed 1 file master, 2.3 and 142 more in stash
    - change link on line 16

**Wednesday 17 Apr**

- Paul Watson 11:39 pm
  - 4936c28 changed 1 file master, 2.3 and 142 more in stash
    - STASHDEV-3570-fix-docs-link

**Repositories and projects**

Filter repositories...

Repositories Projects

**Recent**

- FE-hg
- applinks-git
- svnkit
- stash
- atlassian

**All**

- activeobjects

**Getting started**

All the information you need to get started.

[FishEye](#)  
[Crucible](#)

## Header



The table below explains the tabs in the Crucible header:

| Tab                          | Function   | Appears  |
|------------------------------|--|--|
| <a href="#">Repositories</a> | Displays contents of connected source repositories.<br><br>The dropdown menu has links to recently visited repositories.   | Only when FishEye is used with Crucible.<br><br>Only when FishEye is used with Crucible for logged-in users. |
| <a href="#">Projects</a>     | Displays reviews and content from specific projects.<br><br>The dropdown menu has links to recently visited projects.      | All screens<br><br>All screens for logged-in users.  |
| <a href="#">People</a>       | Displays metrics on the users of the Crucible instance.<br><br>The dropdown menu has links to recently visited user pages. | All screens.<br><br>All screens for logged-in users.   |

|         |  |   |
|---------|--|---|
| Reviews | <p>Allows you to <a href="#">search</a> and <a href="#">report</a> on reviews.</p> <p>The dropdown menu has links to recently visited reviews, as well as links to the Crucible Inbox and Outbox.</p> <p>Choose <b>Reviews &gt; Review dashboard</b> to see the Review Dashboard that has more information about your reviews.</p> | <p>All screens</p> <p>All screens for logged-in users..</p> |
|---------|--|---|

### Recent activity

The dashboard has an activity stream that displays recent commit activity and reviews activity. The activity stream will display your own activity as well as information from projects, reviews, people, repositories, etc, that you have selected as favourites. For more information on favourites, see [Using favourites](#).

#### Browsing commit activity

Commit activity includes files commits to repositories that you have selected as [favourites](#).

Click the **Commits** tab to filter the activity stream to display only source activity.

#### Browsing reviews activity

Reviews activity includes updates to reviews in all projects that you have selected as [favourites](#). See [Browsing all reviews](#) for more information about browsing reviews.

Click the **Reviews** tab to filter the activity stream to display only reviews activity (see screenshot below).

### Related pages

[Browsing source files](#)  
[Browsing projects](#)  
[Viewing People's Statistics in Crucible](#)  
[Viewing reports](#)  
[Searching Crucible](#)  
[Using RSS feeds in Crucible](#)  
[Changing your User Profile](#)

### Using the Review Dashboard

Choose **Reviews > Review dashboard** from the header to see more information about your reviews.

*Screenshot: The Review Dashboard*

**Review Dashboard**
Reports

**My Reviews**

**Inbox (5)**

- To Review (1)
- Ready to Close (0)
- In Draft (4)
- Require My Approval (0)

**Outbox (0)**

- Out For Review (0)
- Completed (0)

**Archive (10)**

- Closed (5)
- Abandoned (5)

**My Snippets**

- My Open Snippets (6)
- My Snippets (6)

**Everyone's Reviews**

See reviews by state...

**Everyone's Snippets**

See snippets by state...

**Custom Filter**

Select a custom filter for the table

**Comment Search**

Advanced Search Search Comments

**Inbox**
5 Reviews

| State  | Review                     | Owner | Name                      | Files | Comments | Age                  | Due                      | Reviewers |
|--------|----------------------------|-------|---------------------------|-------|----------|----------------------|--------------------------|-----------|
| Review | <a href="#">TEST-313</a>   |       |                           | 1     | 3        | 9 months             |                          |           |
| Draft  | <a href="#">TEST-323</a>   |       | Donish                    | 3     | 0        | 5 months and 14 days |                          |           |
| Draft  | <a href="#">TEST-359</a>   |       |                           | 0     | 0        | 5 months             |                          |           |
| Draft  | <a href="#">TEST-399</a>   |       |                           | 0     | 0        | 3 months and 4 days  |                          |           |
| Draft  | <a href="#">CR-FE-7366</a> |       | CRUC-2747: update wording | 5     | 0        | 2 months and 28 days | 2 months and 26 days ago |           |

### Using the 'My Reviews' sidebar

The 'My Reviews' sidebar contains information about reviews and snippets that you are involved with, for example how many reviews need your approval. Read more about the sidebar in [Browsing all reviews](#).

- Click on any of the links in the sidebar to navigate to that information in the 'Reviews' tab of the Dashboard.
- Hover your mouse over the sidebar and click the collapse icon (▲) to hide any of the sections. Click the expand icon (▼) to expand any collapsed sections.
- Click the 'information' icon ⓘ to hide/show the sidebar.

#### Inbox

Click **Inbox** to show all reviews in these [states](#):

**To Review** — Click to show all reviews where you are a [reviewer](#) and haven't yet completed your review work.

**Ready to Close** — Click to show all reviews where you are a [moderator](#) and haven't yet [summarised and closed](#) the review.

**In Draft** — Click to show all reviews that you have created but have not yet been moved to the 'Approval' state or the 'Require Approval' state.

**Require My Approval** — Click to show all reviews where you are a [moderator](#) and need to [approve](#) the review.

|                         |   |
|-------------------------|---|
| <b>Outbox</b>           | <p>Click <b>Outbox</b> to show all reviews in these <a href="#">states</a>:</p> <p><b>Out for Review</b> — Click to show all reviews that you are a participant of, that have review work that is yet to be completed by other reviewers.</p> <p><b>Completed</b> — Click to show all reviews that you are a participant of, and have been <a href="#">completed</a>.</p> |
| <b>Archive</b>          | <p>Click <b>Archive</b> to show all reviews in these <a href="#">states</a>:</p> <p><b>Closed</b> — Click to show all reviews that you are a participant of, that have been <a href="#">summarised and closed</a>.</p> <p><b>Abandoned</b> — Click to show all reviews that you are a participant of, that have been abandoned. You may wish to delete these reviews.</p> |
| <b>My Open Snippets</b> | Click to show all open <a href="#">snippets</a> created by you.   |
| <b>My Snippets</b>      | Click to show all <a href="#">snippets</a> created by you.  |

#### Related topics

[Browsing all reviews](#)

[Using favourites](#)

[Changing your User Profile](#)

### Browsing all reviews

The instructions on this page describe how to browse all reviews on the 'Reviews' screen, by people or for projects that you have selected as [favourites](#). This includes reviews that you are involved with. You can also [generate reports](#) on review blockers for all people.

The 'Reviews' tab is essentially a shortcut to viewing your reviews (or a custom filtered list, if you have set up a filter). You can also filter reviews by status, e.g. Open, Closed.

#### To browse all reviews:

1. Choose **Reviews** > **Review dashboard**. The 'Reviews' page will display all open reviews, unless you have previously used a [custom filter](#). See the screenshot below.
2. Browse your reviews, by clicking the links under 'My Reviews' and 'My Snippets' in the sidebar.
3. Browse reviews for all people by clicking the links under the 'Everyone's Reviews' and 'Everyone's Snippets' sections in the sidebar, as follows:

|                           |  |
|---------------------------|--|
| <b>All Open Reviews</b>   | Reviews that have not been <a href="#">summarised and closed</a> yet.  |
| <b>All Closed Reviews</b> | Reviews that have been <a href="#">summarised and closed</a> .         |
| <b>All Reviews</b>        | All reviews, including open reviews, closed reviews and draft reviews. |
| <b>All Open Snippets</b>  | All open <a href="#">snippets</a> .                                    |
| <b>All Snippets</b>       | All <a href="#">snippets</a> , i.e. open and closed snippets.          |

*Screenshot: Browsing all open reviews*

**Review Dashboard**

My Reviews

- Inbox (5)
  - To Review (1)
  - Ready to Close (0)
  - In Draft (4)
  - Require My Approval (0)
- Outbox (1)
  - Out For Review (1)
  - Completed (0)
- Archive (8)
  - Closed (3)
  - Abandoned (5)

My Snippets

- My Open Snippets (0)
- My Snippets (0)

**All Open Reviews**

Displaying results 1 - 50 of 117:

| State  | Review      | Owner | Name   | Files | Comments       | Age        | Due          | Reviewers |
|--------|-------------|-------|--|-------|----------------|------------|--------------|-----------|
| Review | CR-FE-7365  |       | FECRU-3474: Initialise repo markers if out of sync with states           | 1     | 0              | 96 minutes | in 46 hours  |           |
| Review | CR-FE-7364  |       | FECRU-3472: fix the xss issue by returning a jquery object               | 1     | 0              | 2 hours    | in 45 hours  |           |
| Review | CR-FE-7361  |       | FSH-11605: performance improvements to Edit Project, Add Project and...  | 17    | 40 (40 unread) | 44 hours   | in 3 hours   |           |
| Review | CR-FE-7352  |       | FSH-11357: return the latestChangeset rather than the...                 | 2     | 0              | 4 days     | 20 hours ago |           |
| Review | CR-FE-7349  |       | FE-4661: don't try to load more activity on scrolling if there's none... | 1     | 0              | 5 days     | 43 hours ago |           |
| Review | CR-CLOV-246 |       | CLOV-1289: added support for <columns> tag in PDF report                 | 1     | 0              | 6 days     | in 9 hours   |           |
| Review | CR-FE-7340  |       | FECRU-3435, FECRU-3183 - fixup jlp funtests a bit                        | 2     | 7 (7 unread)   | 7 days     | 5 days ago   |           |
| Review | CR-FE-7332  |       | FSH-11357: add logging around hg indexing                                | 2     | 0              | 8 days     | 6 days ago   |           |
| Review | CR-FE-7328  |       | BUILDENG-3390: adding template license files                             | 591   | 18 (18 unread) | 8 days     | 6 days ago   |           |
| Review | CR-CLOV-245 |       | CLOV-958: Refresh button enabled in the Cloud report in case of 100%...  | 2     | 0              | 13 days    | 6 days ago   |           |

## Related Topics

Using the Review Dashboard

Viewing reports

## Browsing source files

When FishEye is installed with Crucible, the **Repositories** tab is available in the [header](#).

### To browse source files:

1. Choose **Repositories** > **All repositories** from the header. The 'Repositories' view will be displayed, showing summary information if you have multiple repositories set up. See the '[Viewing all repositories](#)' screenshot below.
2. Click the name for a repository to view its contents. See the '[Viewing a repository](#)' screenshot below.
3. Browse the repository for the desired source file using the directory tree in the left menu. See the '[Viewing a file](#)' screenshot below.
4. You can view various information about the file:

| Tab              | Description   |
|------------------|---|
| <b>Activity</b>  | Shows recent activity for the item. There are a number of sub-options here:<br><b>All</b> — The default view, showing commits, reviews and JIRA issues.<br><b>Commits</b> — Shows commits in the activity stream.<br><b>Reviews</b> — Shows review activity in the activity stream.<br><b>Filter commits</b> — Applies constraints to the current activity stream.<br><b>Expand all</b> — Shows more detail for all changesets.<br><b>Scroll to changeset</b> — Displays the changeset ID specified |
| <b>Revisions</b> | When viewing a file, shows the latest revisions of the file.  |
| <b>Users</b>     | Shows the commit history of the different users that have committed changes on the item.  |
| <b>Reports</b>   | Shows activity charts for the item. Various chart options can be selected in the left navigation bar.   |

|        |                                 |
|--------|---------------------------------|
| Source | Shows the contents of the file. |
|--------|---------------------------------|



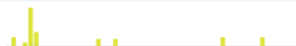
 To download files, click the **Source** tab for the desired file, then right-click **Raw**.

Screenshot: Viewing all repositories

Repositories

Repositories

Activity

| Repository       | State   | Commit History (12 Months)  | LoC    | Commits | Reviews | Last Updated      |
|------------------|---------|---|--------|---------|---------|-------------------|
| ☆ activeobjects  | Stopped |   | -      | -       | 4       |                   |
| ☆ applinks       | Stopped |   | -      | -       | 0       |                   |
| ☆ applinks-git   | Running |  | -      | 2,893   | 3       | a few seconds ago |
| ☆ atlassian      | Running |  | 33,433 | 546     | 12      | a few seconds ago |
| ☆ atlassian-http | Running |  | -      | 91      | 4       | a few seconds ago |

Screenshot: Viewing a repository

applinks-git ☆

All

master

Search for branch/tag

Activity

Commit Graph

Files

Users

Reports

Search

last updated a few seconds ago

applinks-admin-api/

applinks-api/

applinks-auth-api/

applinks-auth-seraph/

applinks-auth-spi/

applinks-auth-trusted/

applinks-bamboo-plugin/

applinks-caviar-plugin/

applinks-confluence-plugin/

applinks-core/

applinks-fisheye-plugin/

applinks-func-test-plugin/

applinks-host/

applinks-jira-common/

applinks-admin-api

applinks-api

applinks-auth-api

applinks-auth-seraph

applinks-auth-spi

applinks-auth-trusted

applinks-bamboo-plugin

applinks-caviar-plugin

applinks-confluence-plugin

Screenshot: Viewing a file

applinks-git / applinks-admin-api / src / main / java / com / atlassian / applinks / api

MutatingAppLinkTypes.java ☆

All

master

Search for branch/tag

Activity

Revisions

Users

Reports

Source

Diff 2 selected

Diff latest

Filter

Include other branches

Show all details

2 revisions

Tim Pettersen

54119b3 on issue/APL-834 , issue/APL-932 ,(+57 more)

+0 -24

Deleted

Diff

Changeset

30 Dec 09

NONE: Revise nomenclature, remove commented out code & remove the MutatingAppLinkTypes (types are extended by

Tim Pettersen

7a209c4 on issue/APL-834 , issue/APL-932 ,(+57 more)

+24 -0

Source


Changeset

29 Dec 09










more applinks-api spike mk3

Crucible Icons

This page contains a list of Crucible icons and an explanation what each one represents in the user interface.

| Icon  | Description                                |
|---|--|
|  | View review-level <a href="#">comments</a> |

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|   |  |
|---|--|
|  | Go to the previous comment             |
|  | Go to the next comment                 |
|  | <a href="#">Add a comment</a>          |
|  | Go to the previous file in this review |
|  | Go to the next file in this review     |
|  | Expand all files                       |
|  | Collapse all files                     |
|  | A file included in this review         |
|  | A directory included in this review    |

## Searching Crucible

Crucible has a powerful search engine that allows you to find reviews. There are two methods for searching in Crucible:

- **Quick Search** — The Quick Search allows you search all Crucible projects by entering a single search string. This search is the default search and will suggest "quick nav" results (header search box only). Results are weighted by most recent edit date.
- **Filtering Reviews** — An alternative method for searching for reviews is to display all reviews and apply a custom filter to the list. This is generally slower than searching, but allows you to specify filter criteria against a range of fields.
- **Comment Search** — If you want to find specific [review comments](#), Crucible provides a powerful comment search.

See also [Searching FishEye](#).

### On this page:

- [Using the Quick Search](#)
- [Filtering reviews](#)
- [Searching for Review Comments](#)

### Using the Quick Search

Before you begin:

- The Quick Search will also return changesets and files, if you are using **FishEye** with Crucible. For information on searching FishEye, see [Searching FishEye](#) in the FishEye documentation.

### To search Crucible using the Quick Search:

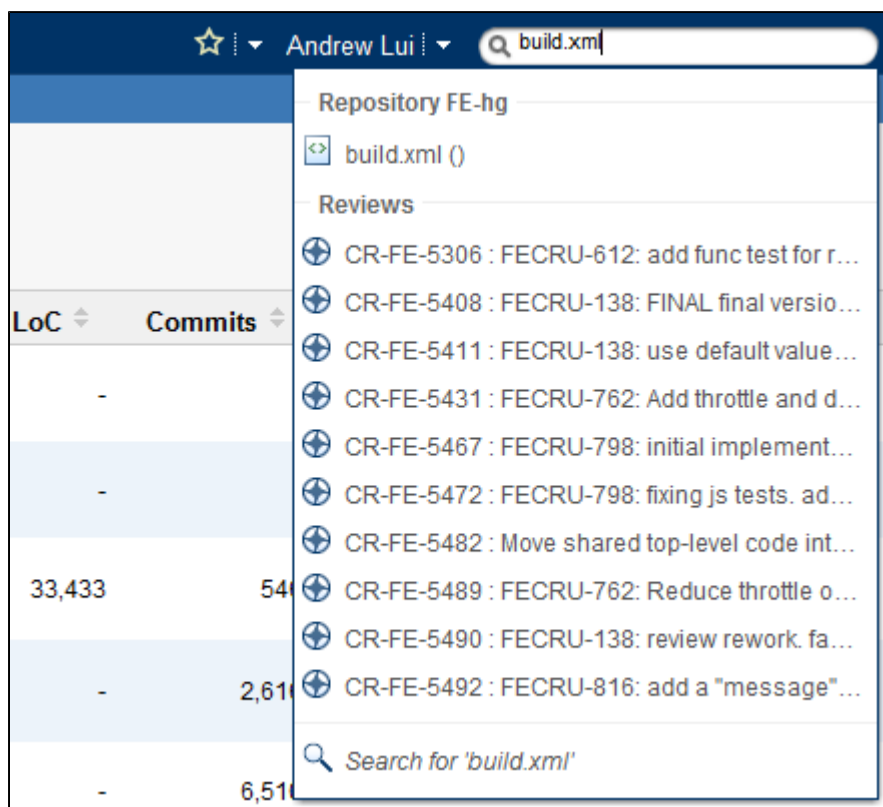
1. Enter your search terms in the search box in the Crucible header. Crucible offers a number of criteria that you can use to refine your results, see [Refining your Quick Search Criteria](#) below.
2. Results will appear in a dropdown, as you type. Results will attempt to be matched against the review name, project and user.
  - If you want to use a quick search result, use the up- and down-arrows on your keyboard and press enter or use your mouse to select the item.
  - If the quick search results don't have what you are looking for, press enter to run a search. Ensure that no items in the dropdown are selected when you press enter.
3. The Quick Search results page will be displayed. You can filter your results further, as described in [Filtering Quick Search Results](#) below. Results are sorted by relevance and boosted if they were edited recently. A maximum of 10 results are displayed per page.
  - If you have **integrated your Crucible instance with a JIRA instance**, you can display a summary of any JIRA issues referenced in your search results by hovering over the issue key. For more details, see [JIRA integration in Crucible](#).
4. If you want to run another search, enter your new criteria in the main search box or in the search box in



the header.

Note, only the search box in the header provides "quick nav" results.

Screenshot: Quick Search displaying "quick nav" matches



#### Refining your Quick Search Criteria


You can refine your search criteria before executing the search:

| Search Tool                           | Description  | Example  |
|---------------------------------------|--|--|
| <b>Field Handles</b>                  | <p>Use a field handle in your criteria to restrict your search to a particular field. Note, you cannot have multiple field handles in a query.</p> <ul style="list-style-type: none"> <li>• detail — Search against title, objective, key, linked reviews and linked issues.</li> <li>• reviewcomment — Search against review comments.</li> </ul> |  |
| <b>Searching for Discrete Strings</b> | <p>Enter a specific string within quotation marks and Crucible will match against the exact string. Note, this search is not case-sensitive.</p>   | <p>Enter "CR-2818" and Crucible will only return results that match that exact string, i.e. it will not return a result with CR-FE-2818 or CR-28189.</p> |

#### Filtering Quick Search Results

You can filter Quick Search results using the controls in the left panel of the Quick Search page:

| Filter | Description |
|--------|-------------|
|--------|-------------|

|                         |  |
|-------------------------|--|
| <b>All repositories</b> | Type a repository name into the field, or click the down arrow to see a list of repositories.  |
| Source type             | Click <b>Files and directories</b> , <b>Commit messages</b> , <b>Diffs</b> , <b>Content</b> or <b>Committers</b> to restrict the search results to just that source type.  |
| <b>All projects</b>     | Select or enter the name of the project that you want to restrict your results to. For example, if you enter 'CR' then the search results page will refresh to display only reviews in the 'CR' project.<br> <i>If you are using Fisheye with Crucible, there will be a repositories dropdown in the 'Source' section. Selecting a FishEye repository in this dropdown will not filter the Crucible search results. It is only used to filter files and changesets returned in the search results. See <a href="#">Searching FishEye</a>.</i> |
| <b>Reviews</b>          | Click this link to restrict your results to reviews that have a title, objective, key, linked reviews or linked issues that match the search criteria.   |
| <b>Comments</b>         | Click this link to restrict your results to reviews that have comments that match the search criteria.   |
| <b>Last modified</b>    | Filter by the date of the last change.   |
| <b>By</b>               | Filter by author name.   |

### Filtering reviews

Crucible allows you to view all the reviews/snippets that you are involved with, as well as everybody's reviews/snippets. You can filter these lists to find reviews.

#### To filter a list of reviews:

1. Click **Reviews** in the header.
2. Click the list of reviews that you want to start with, in the sidebar of the 'Review Dashboard', e.g. 'All Open Reviews'.
3. Click **Custom Filter** in the reviews sidebar.
4. Update the filters with your search criteria (see table below) and then click **Apply Filter**.

| Filter                 | Description  |
|------------------------|--|
| <b>Title</b>           | Find reviews by searching for words within the title.  |
| <b>Project</b>         | Find reviews under a particular project.   |
| <b>Author</b>          | Find reviews moderated by a particular <a href="#">authors</a> .   |
| <b>Moderator</b>       | Find reviews moderated by a particular <a href="#">moderator</a> s.  |
| <b>Creator</b>         | Find reviews created by a particular <a href="#">creator</a> .   |
| <b>Reviewer</b>        | Find reviews that are reviewed by a particular <a href="#">reviewer</a> . This will default to the user logged in.                             |
| <b>Reviewer Status</b> | This is reliant on the above filter and is used to show reviews that have either been completed by the reviewer, not completed or all reviews. |
| <b>Type</b>            | Choose either <b>Review</b> or <b>Snippet</b> .  |

|                         |  |
|-------------------------|--|
| <b>Match Roles</b>      | To use all the above filters, choose <b>all</b> . To use any of the filters, choose <b>any</b> .                       |
| Review state checkboxes | Check any of the review state checkboxes (e.g. <b>Draft, Pending Approval</b> ) to filter for reviews in those states. |

### Searching for Review Comments

#### To search for review comments:

1. Click **Reviews** in the header.
2. Enter your search string in the 'Comment Search' section at the bottom of the reviews sidebar.
3. Click **Search Comments**.
4. The 'Comment Search' page will display your results. You can refine your search using the search criteria on the page:

|                        |   |
|------------------------|---|
| <b>Project</b>         | Find comments on reviews under a particular project.  |
| <b>Comment content</b> | Find comments that contain the specified text.  |
| <b>Review Permalid</b> | Find comments made on the specified review.   |
| <b>After</b>           | Find comments made after a particular date.   |
| <b>Before</b>          | Find comments made before a particular date.  |
| <b>Comment Author</b>  | Find comments made by a particular user.  |
| <b>Search Type</b>     | Filter for comments marked as <b>Defects</b> . Check <b>Comments</b> to find comments that are not flagged as <a href="#">Defects</a> . |
| <b>Review State</b>    | Find comments on reviews that are in a particular state. See <i>Review State Filter</i> (above).  |
| <b>Ranking</b>         | Find <a href="#">defects</a> have been given a particular ranking (e.g. 'Major', 'Minor').  |
| <b>Ranking</b>         | Find <a href="#">defects</a> have been given a particular ranking (e.g. 'Major', 'Minor').  |

Screenshot: Search Comment Filter Options

### Search Criteria

#### Search Criteria

Project:

Comment content:

Review Permalid:

After:

Before:

Comment Author:

#### Search Type:

☐ Defects ☐ Comments

#### Review State:

☐ Draft ☐ Pending Approval ☐ Under Review  
☐ Summarize ☐ Closed ☐ Abandoned  
☐ Rejected ☐ Needs Fixing

#### Metrics:

Ranking:

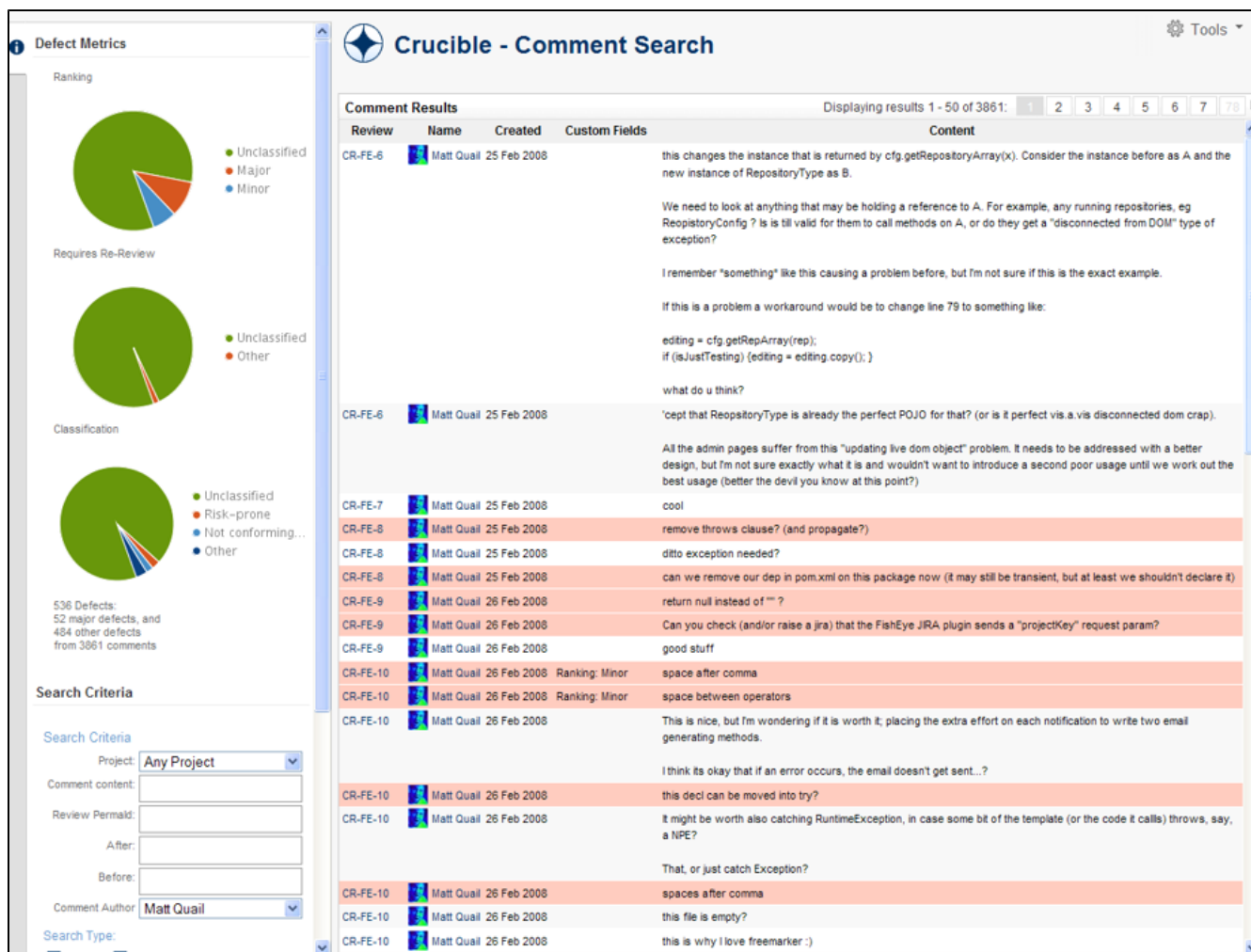
Requires Re-Review:

Classification:

#### Displaying Defect Metric Charts for Comment Search Results

Once you have retrieved results for a review comment search, you can click **Defect Metrics** in the left navigation pane to display defect classification charts.

*Screenshot: Comment Search Results*



## Viewing people's statistics in Crucible

This page contains instructions on how to use the **People** tab in Crucible to see charts and activity from people with accounts on the system.

On this page:

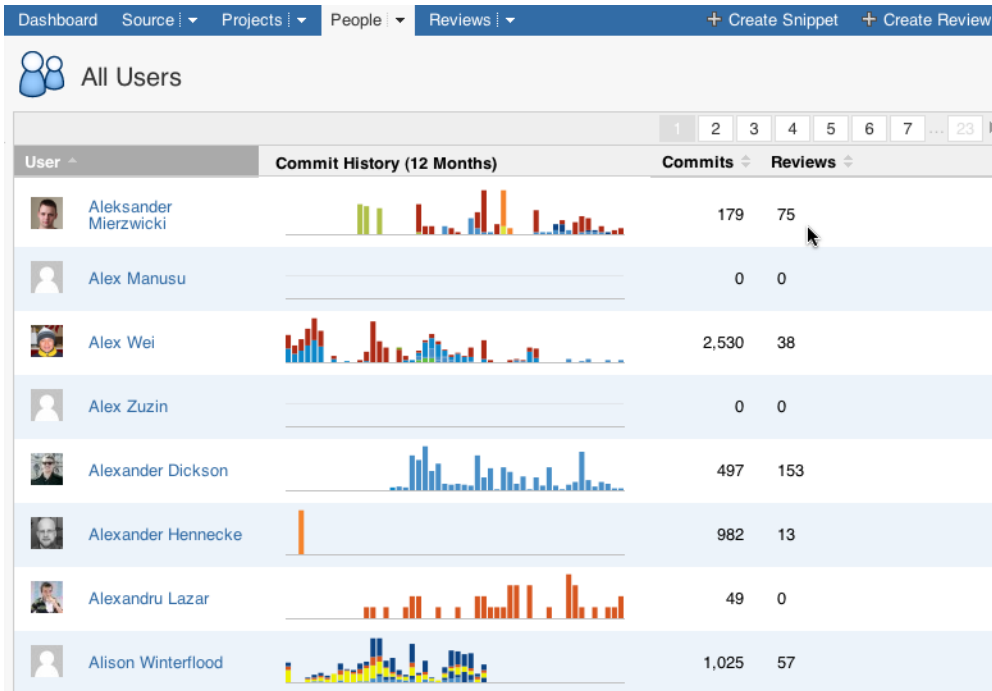
- Opening the list of People
- Viewing a Person's Activity Screen
- Viewing charts of a person's activity

### Opening the list of People

To view statistics on People in Crucible, (that is, code authors, committers and reviewers) click the **People** tab at the top of the page.

The list of all people shows all users that have accounts on the system. By default, each user has a unique avatar that is randomly formed from the text in their email address. You can add your own avatar by uploading an image to an external service such as Gravatar, which Crucible supports. See [Changing your User Profile](#).

*Screenshot: List of all People in Crucible (when using FishEye with Crucible)*



#### Viewing a Person's Activity Screen

Click on a username to see a listing of activity for them as well as charts showing statistics for their activity.

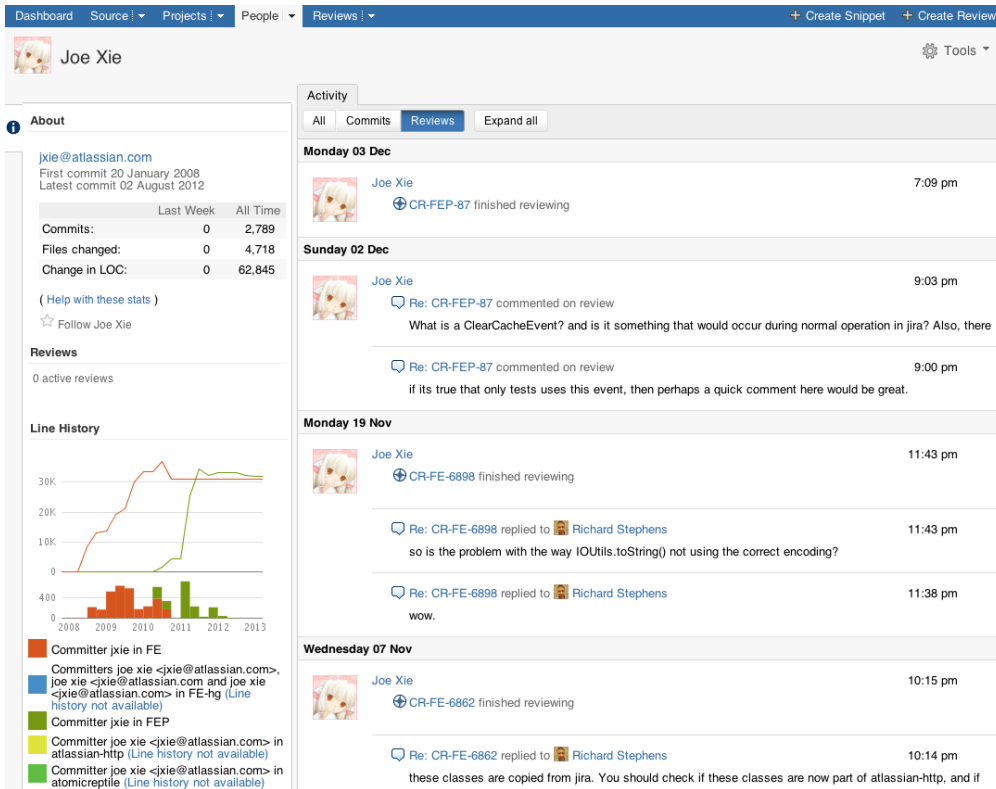
The right hand pane displays a list of all activity for this user. You can:

- click the icons to view full commit information in FishEye
- click JIRA issue names to open the work ticket on an item
- click the long button to see the list of files in context
- click the [star](#) icon to add an item to your favourites.

The left hand pane displays charts around this activity, including:

- number of active reviews
- charted history of lines of code
- code committing activity
- general statistics.

*Screenshot: The People Activity Screen in Crucible*



**i** Some users may not appear to have the correct number of Files Changed or LOC, despite regularly committing. In this situation, if they have committed to a directory which is not covered by the regexes in your symbolic definition (i.e. they have committed to a directory that is neither trunk, branches or tags) then that directory will be counted as part of trunk. Also note that creating tags and branches themselves does not count toward the totals.

#### Viewing charts of a person's activity

To see information on a person's activity charted in detail, click the headings in the left-hand pane. Each heading will show more information on demand, when clicked. The information available and what it means is listed below.

**!** The charts in this section are only available when using FishEye.


*Screenshot: People Activity Charts in Crucible*


#### • About

The username section shows the email address, then the first and latest commit dates for the person in context.

Also displayed are data points for the previous week and all-time. It shows number of commits, number of files changed and number of lines changed.




**Joe Xie**



**About**

[jxie@atlassian.com](mailto:jxie@atlassian.com)  
 First commit 20 January 2008  
 Latest commit 02 August 2012


|                | Last Week | All Time |
|----------------|-----------|----------|
| Commits:       | 0         | 2,789    |
| Files changed: | 0         | 4,718    |
| Change in LOC: | 0         | 62,845   |


( [Help with these stats](#) )

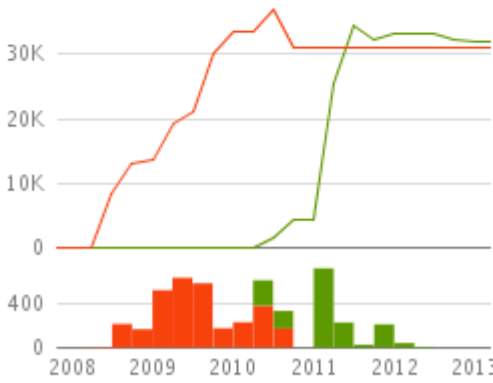
☆ Follow Joe Xie



**Reviews**


[To Review \(0\)](#)  
[Ready to Close \(0\)](#)  
[Out For Review \(0\)](#)  
[Open \(2\)](#)  
[Closed \(1017\)](#)



 Counts may include data that you cannot access.



**Line History**



 Committer jxie in FE  
 Committers joe xie <jxie@atlassian.com>, joe xie <jxie@atlassian.com> and joe xie <jxie@atlassian.com> in FE-hg ([Line history not available](#))

 Committer jxie in FEP  
 Committer joe xie <jxie@atlassian.com> in atlassian-http ([Line history not available](#))

 Committer joe xie <jxie@atlassian.com> in atomicreptile ([Line history not available](#))

 Committer joe xie <jxie@atlassian.com> in commithooks ([Line history not available](#))

### • Reviews

The Reviews section shows several filters that you can click to constrain the review items shown in the right-hand pane. The options are **To Review**, **Ready to Close**, **Out For Review**, **Open** and **Closed**.

### • Line History

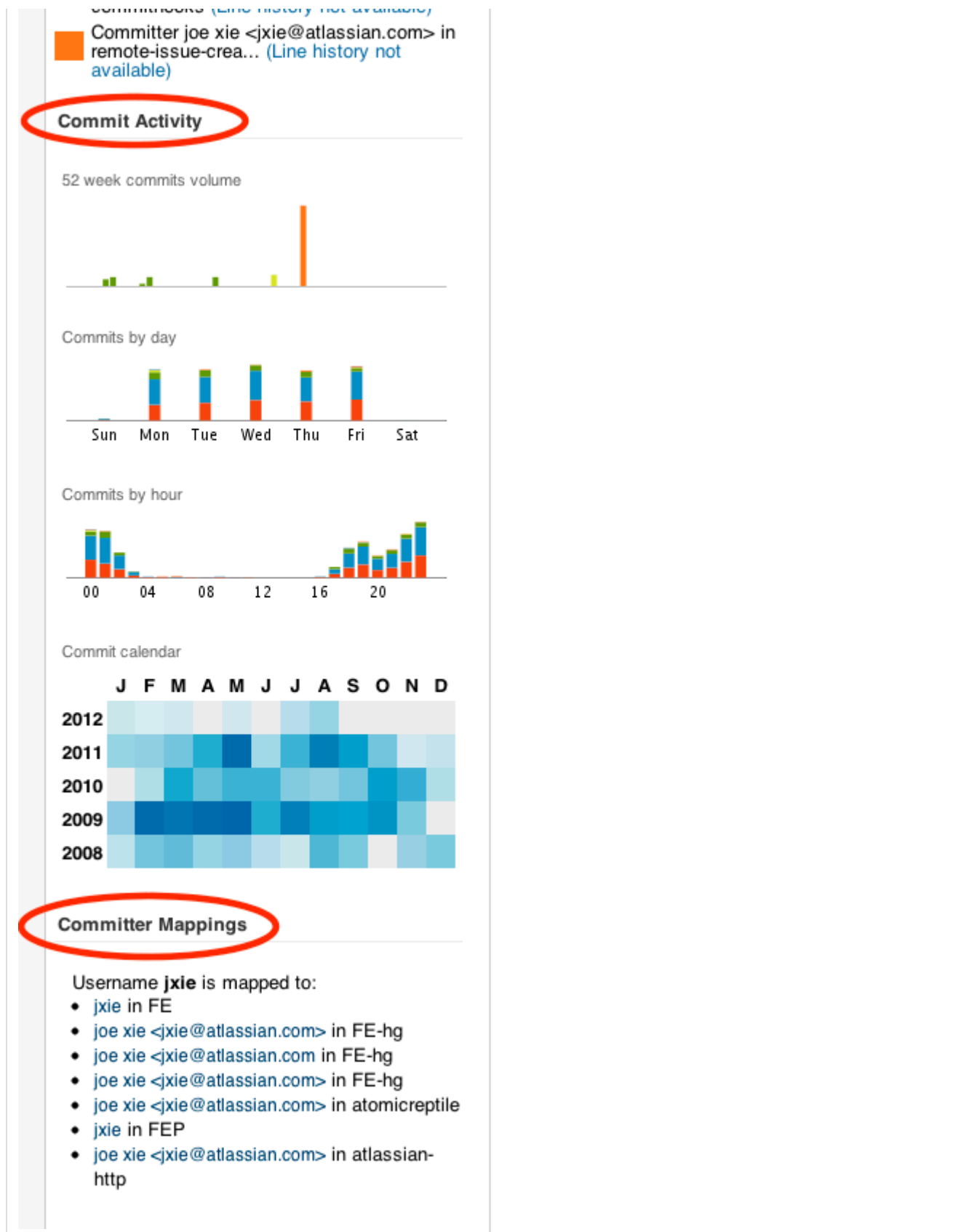
The Line History section shows a graph with the number of lines committed to the repository, charted over time.

### • Commit Activity

The Commit Activity section shows four smaller charts; the first showing the volume of commits over a 52 week period; the second showing the relative number of commits on days of the week; the third showing the relative number of commits by the hour of the day when they were lodged; the last shows a commit calendar.

### • Committer Mappings

The Committer Mappings section displays username mappings from various systems if they have several usernames in play.



## Browsing projects

To browse the content in a project, click **Projects** at the top of the page and choose a recent project, or choose **All projects** and click on a project name in the table.

The page for the project has the following sections:

Left navigation panel

Displays an overview of the project's history, statistics and activity.

#### Activity tab

Lists recent commit and review activity on separate sub-tabs, and all these together on the **All** sub-tab.

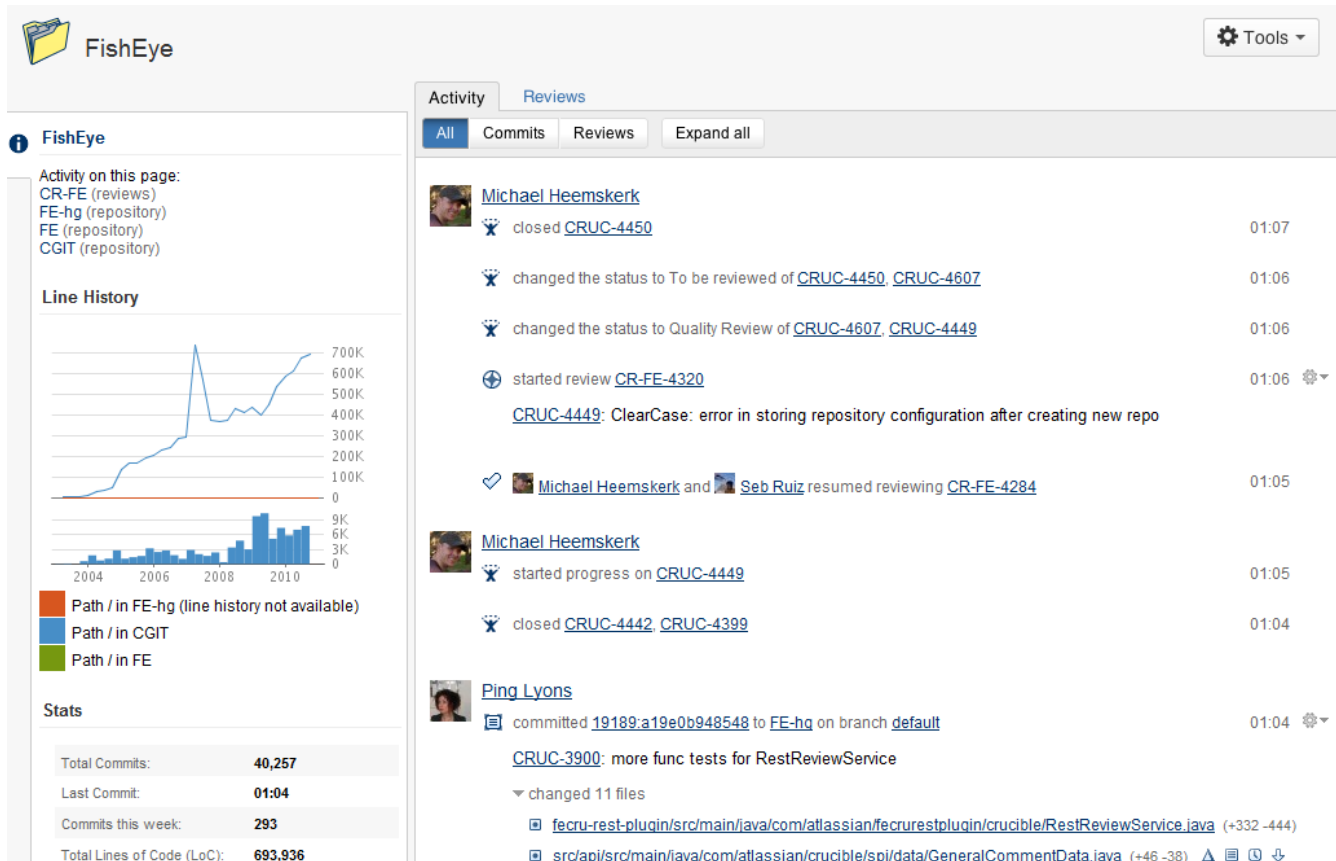
Click **Expand all** to see more detail for every commit or review.

#### Reviews tab

Lists all the reviews for the project.

**i** The Projects tab is only visible in Crucible. Read more about the [definition of a project](#).

*Screenshot: The Crucible Project View*



## Viewing Project Statistics

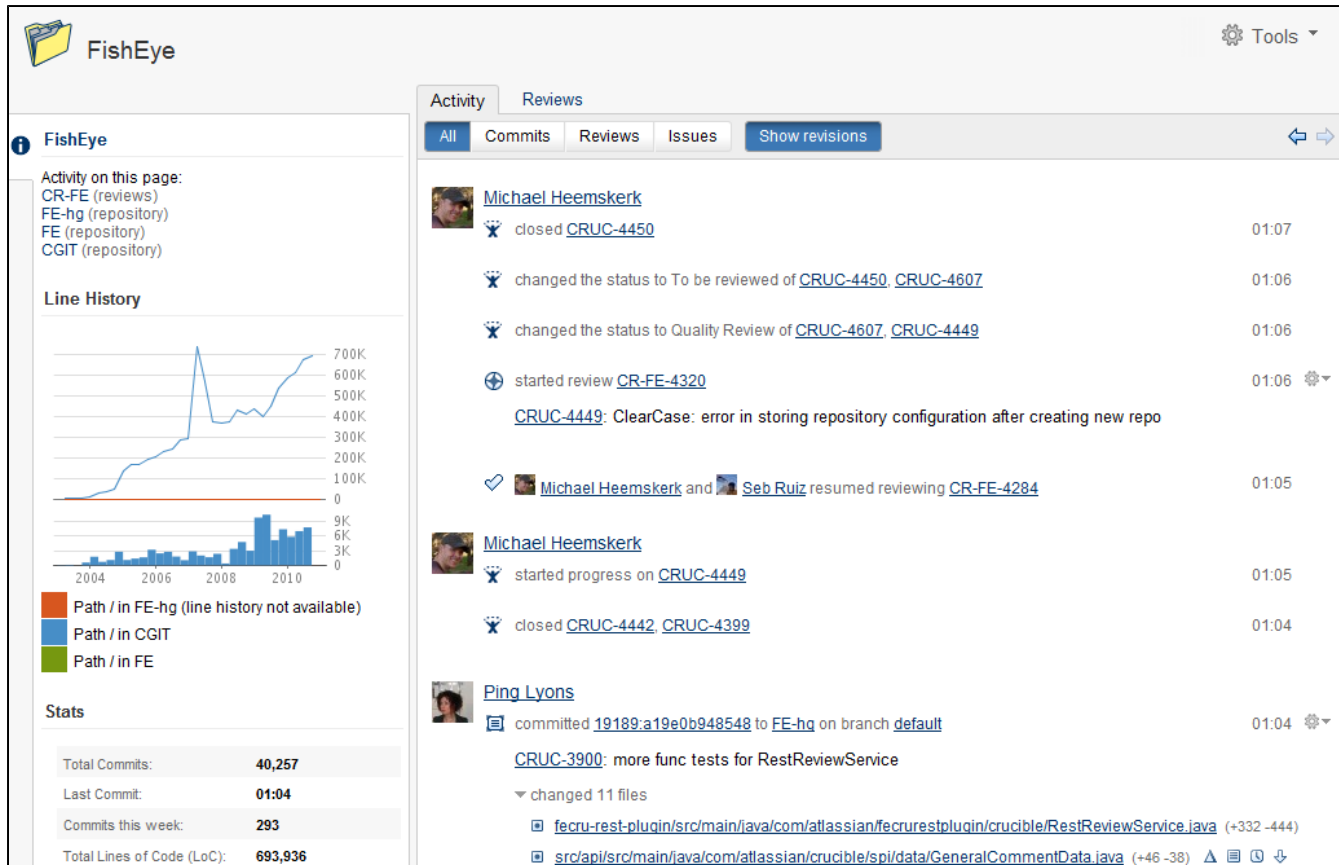
This page explains the layout of the Project Summary page.

#### On this page:

- [Project Name Panel](#)
- [Project Line History Panel](#)
- [Project Stats Panel](#)
- [Project Commit Activity Chart](#)

When you click through to a Crucible Project from the [Projects Tab](#), the '**Project Summary**' screen opens.

*Screenshot: The Crucible Project Summary Page*



In the right hand pane, you can see an activity stream relating to this project. In the left hand pane, you can see various statistics charts relating to the project in context. These appear in a reduced size until you click them, when they will expand to show more information.

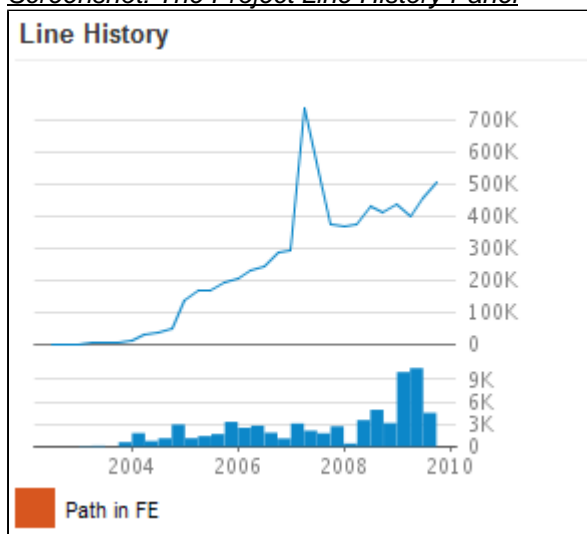
#### Project Name Panel

This contains a short message explaining which Crucible Project and FishEye repositories are being accessed to show the activity stream on the page.

#### Project Line History Panel

This panel contains a chart showing the lines of code added to the repository, graphed over time.

#### Screenshot: The Project Line History Panel



#### Project Stats Panel

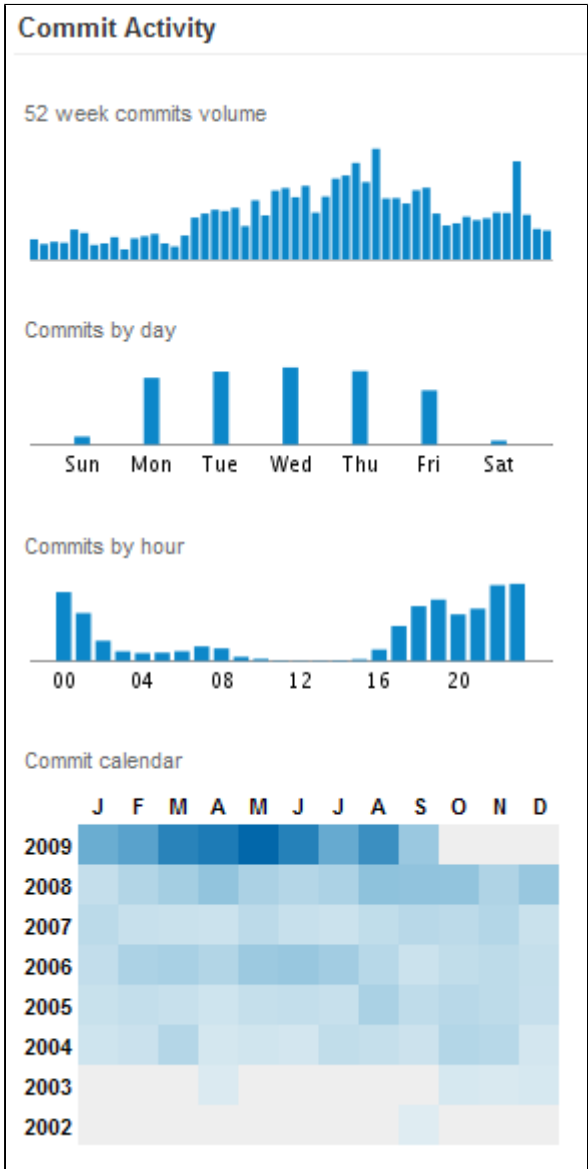
This panel contains a chart showing numerical data for commits, files changed and lines change, graphed over time.

Screenshot: The Project Stats Panel

| Stats          |           |          |
|----------------|-----------|----------|
|                | Last Week | All Time |
| Commits:       | 137       | 16,033   |
| Files changed: | 543       | 69,896   |
| Lines changed: | 33,543    | 504,583  |

**Project Commit Activity Chart**

This panel contains a number of charts:

| Chart  | Description   |
|--|---|
|  <p><b>Commit Activity</b></p> <p>52 week commits volume</p> <p>Commits by day</p> <p>Commits by hour</p> <p>Commit calendar</p> | <p><b>52 week commits volume</b><br/>This chart shows the amount of commits, shown by week over a one year period.</p> <p><b>Commits by day</b><br/>This chart shows the amount of commits, graphed by day over the past week.</p> <p><b>Commits by hour</b><br/>This chart shows the amount of commits, graphed by hours over the past day.</p> <p><b>Commit calendar</b><br/>This chart shows the amount of commits (shown as darker colours to indicate more commits) graphed by month, over years that the repository has been running.</p> |

**Changing your User Profile**

See [Changing your User Profile](#) in the FishEye documentation.

**Using favourites**

This page describes how to use 'favourites' in Crucible.

You can add code reviews, people and repositories to your favourites. This allows you to customize the information that you see in your [activity stream](#). Try favouriting items that you are currently working on, to get greater relevance and context in your activity stream.

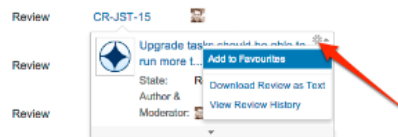
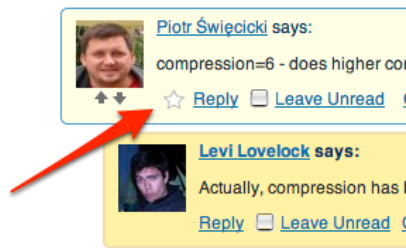

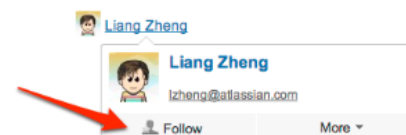
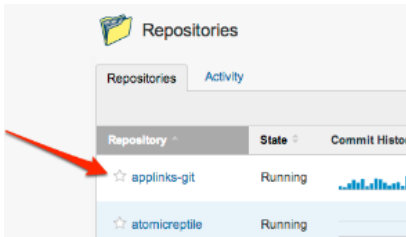
You can view all your favourites at once in your profile – choose **Favourites** from your User menu (the one with your avatar).

On this page:

- [Adding favourites](#)
- [Managing favourites](#)

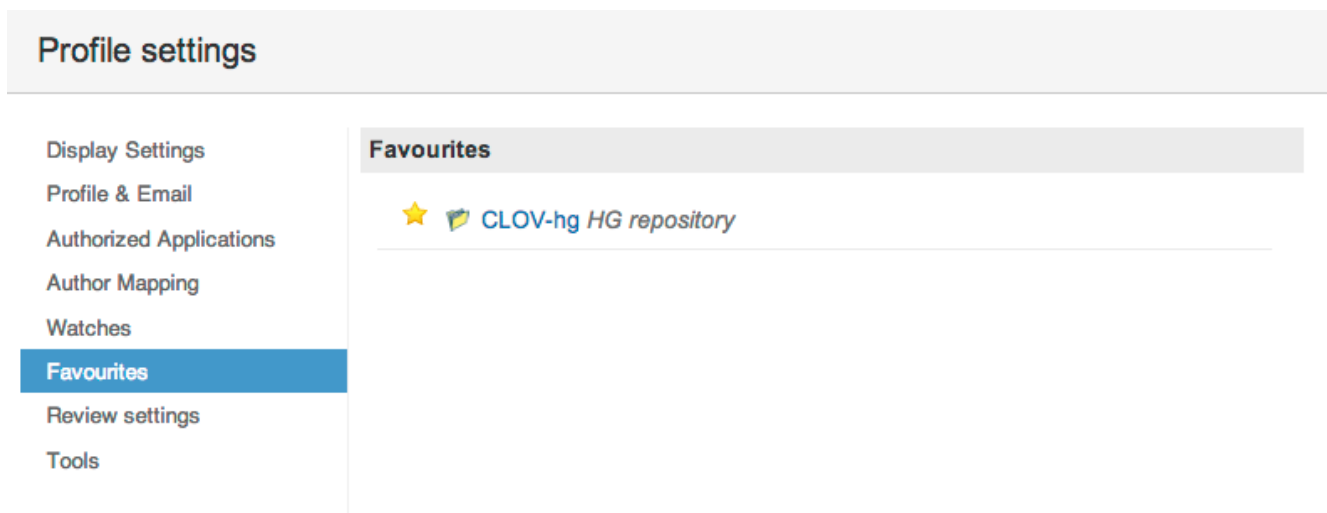
### Adding favourites

To add an item to your favourites, follow one of these options:

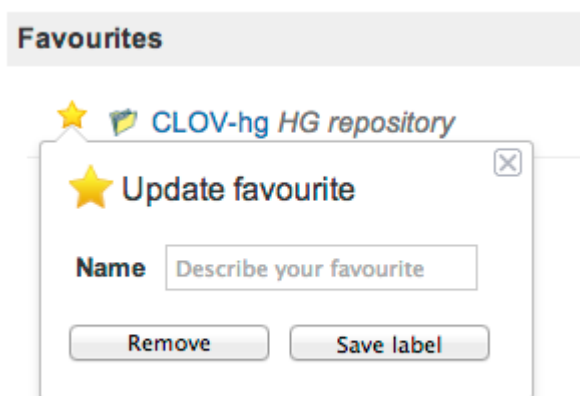
| Item                  | Favourite it by...   | Looks like this...  |
|-----------------------|--|---|
| Review                | <p>Hover over the review name, for example in the 'Open Reviews' list of the Reviews Dashboard.</p> <p>In the popup, click the cog icon and choose <b>Add to Favourites</b>.</p> |  <p>The screenshot shows a review titled 'CR-JST-15' with a dropdown menu open. The menu options are: 'Upgrade task', 'run more...', 'Add to Favourites' (highlighted with a red arrow), 'Download Review as Text', and 'View Review History'.</p> |
| Review comment thread | <p>Click the grey star in the first comment of the comment thread.</p>   |  <p>The screenshot shows two comments. The first comment by 'Piotr Święcicki' has a grey star icon highlighted with a red arrow. The second comment by 'Levi Lovelock' is also visible.</p>   |
| Project               | <p>Click the grey star beside the project's name in the 'All Projects' list. See <a href="#">Browsing projects</a>.</p>  |  <p>The screenshot shows a list of projects. The 'Project' column has a star icon next to 'Antr Light SCM' highlighted with a red arrow.</p>   |
| Person                | <p>Hover over a person's username and click <b>Follow</b>.</p>   |  <p>The screenshot shows a user profile card for 'Liang Zheng'. The 'Follow' button is highlighted with a red arrow.</p>   |
| Repository            | <p>(Requires <a href="#">FishEye</a>)</p> <p>In the 'Repositories' list, click the grey star beside the repository's name. See <a href="#">Browsing source files</a>.</p>        |  <p>The screenshot shows a list of repositories. The 'Repository' column has a star icon next to 'aplinks-git' highlighted with a red arrow.</p>   |

### Managing favourites

You can manage your favourites from your profile in Crucible – choose **Favourites** from your User menu (the one with your avatar):



Click the star beside a favourite to change its label or to delete it:



## Using Keyboard Shortcuts in Crucible

To see the available shortcuts, navigate to a review in Crucible, then choose **Tools > Keyboard Shortcuts**.

### General shortcuts

| Key       | Function   |
|-----------|--|
| ?         | Opens reference list of keyboard shortcuts                   |
| escape    | Closes reference list of keyboard shortcuts                  |
| alt       | Hold down then click and drag to select source line contents |
| shift + f | Toggle full screen review mode                               |

### Custom navigation

| Key | Function  |
|-----|---|
| ,   | (Comma) Go to the previous element (file, comment, defect or diff hunk depending on your current context) |
| .   | (Period) Go to the next element (file, comment, defect or diff hunk depending on your current context)    |



**Comment navigation**

| Key       | Function                              |
|-----------|---------------------------------------|
| n         | Go to next review comment             |
| p         | Go to previous review comment         |
| shift + p | Go to first review comment            |
| shift + n | Go to last review comment             |
| l         | Go to next thread (skips replies)     |
| h         | Go to previous thread (skips replies) |
| ]         | Go to next unread comment             |
| [         | Go to previous unread comment         |
| r         | Reply to a comment                    |
| m         | Toggle comment read/unread status     |

**File navigation**

| Key       | Function  |
|-----------|---|
| j         | Go to the next element (file, comment, defect or diff hunk depending on your current context)     |
| k         | Go to the previous element (file, comment, defect or diff hunk depending on your current context) |
| shift + k | Go to first file  |
| shift + j | Go to last file   |
| u         | Go to next unreviewed file  |
| i         | Go to previous unreviewed file  |
| y         | Set file reviewed and go to next unreviewed file  |
| shift + y | Toggle file reviewed/unreviewed status  |
| e         | Expand current file   |
| c         | Collapse current file   |
| shift + e | Expand all files  |
| shift + c | Collapse all files  |

**The Crucible workflow**

This page provides an overview of Crucible workflows, followed by a simple example showing a code review between two people.

On this page:

[Crucible Workflow](#)

[Example workflow: Two participant code review](#)

- [1. The author starts the review](#)
- [2. The reviewer comments on the code](#)
- [3. The author responds to the comments](#)
- [4. The author closes the review](#)

**Roles**

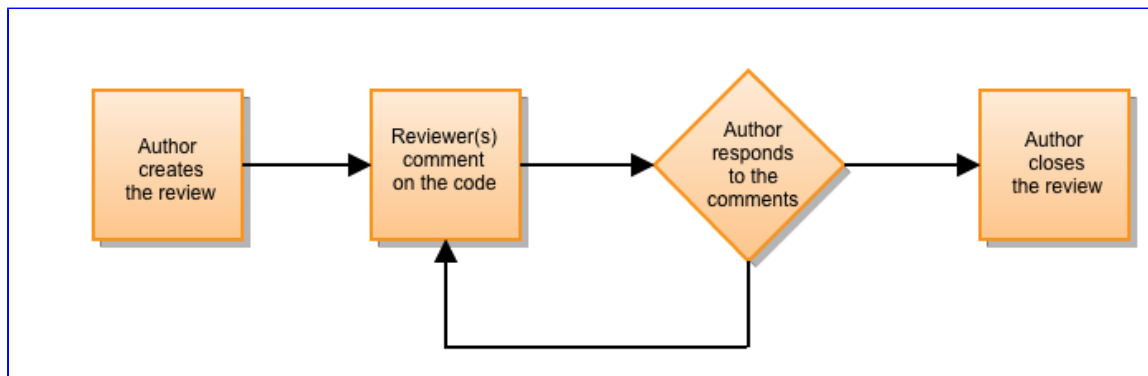
Crucible is a flexible application that caters for a wide range of team sizes and work styles. You will need to know about the basic roles used in Crucible:

- **authors:** Usually the creator of the code; the person who will act on the review's outcome.
- **reviewer:** A participant that will comment on the source files in the review, raising points and discussion on the work that was done.
- **moderator:** Usually the person who starts the review and is responsible for deciding the outcomes and closing it. The moderator is disabled for the "agile" permission scheme to simplify workflow.

## Crucible Workflow

There are a number of different ways in which you can use Crucible for code reviews. The following diagram shows the basic workflow that applies to most Crucible code reviews.

Diagram: Workflow for One-to-One Reviews



Need more information? Read more about the different forms of [workflow in Crucible](#).

Next, we explore an example workflow for a two-person code review in Crucible.

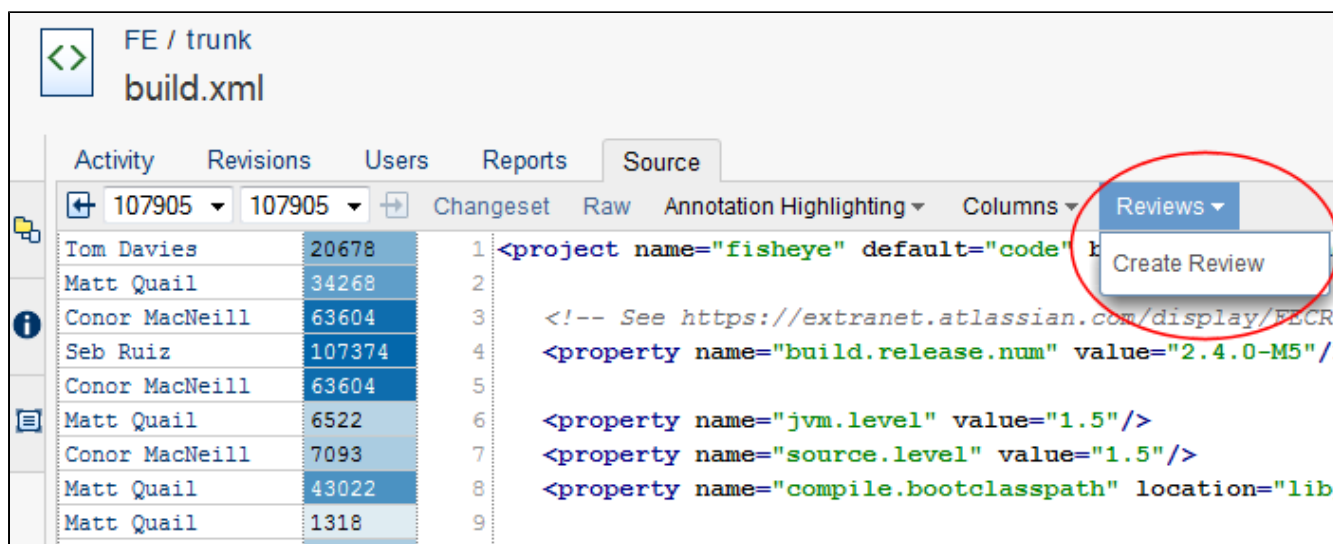
### Example workflow: Two participant code review

This section describes a one-to-one review involving two people. In this example, the code author wears "two hats", acting as [review creator](#), and [code author](#), managing the review process as well as taking final responsibility for closing the review. The second person is the reviewer.

#### 1. The author starts the review

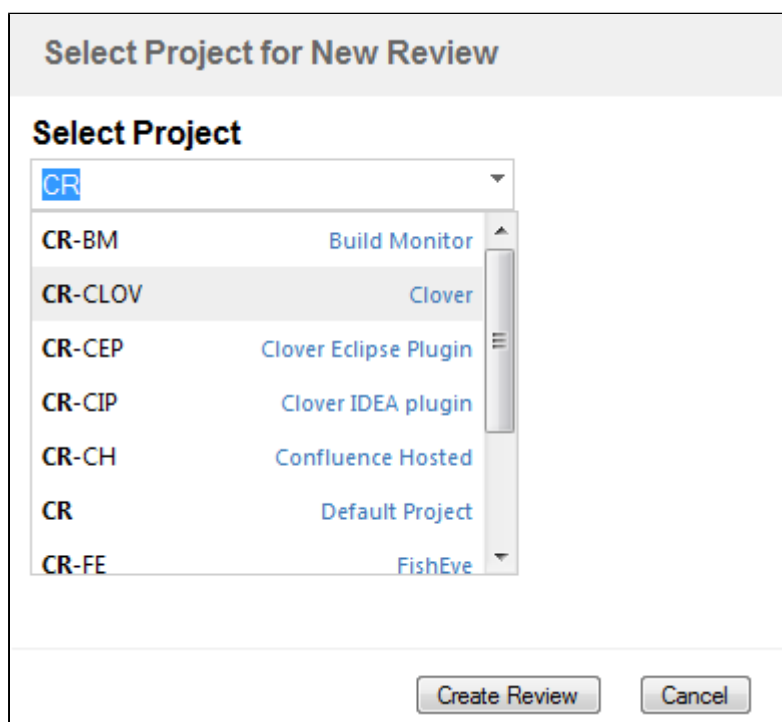
To begin, the code author sets up the review. There are a [number of ways to do this](#), but for this example, the author starts from the FishEye source view of the file he wants to review:

Screenshot: Opening a review from the FishEye Source view



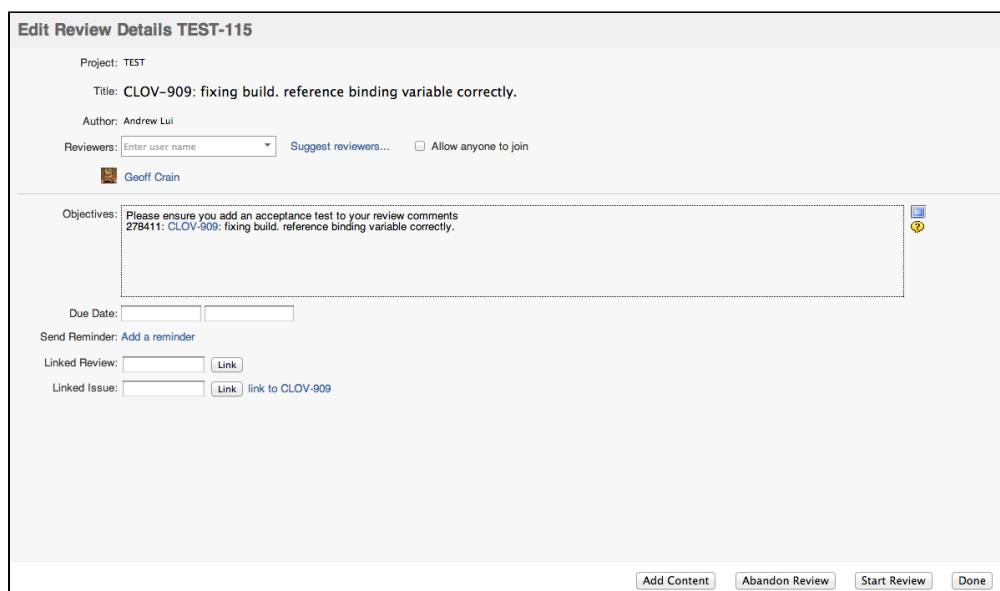
From the FishEye Source view, the author chooses **Reviews > Create Review**. If there are multiple projects, the Select Project dialogue opens.

*Screenshot: The Select Project dialogue*



In the Select Project dialogue, you are prompted to choose a project for this review from the drop-down list. Once the selection is made, the author clicks **Create Review**. The Edit Review Details dialogue opens, where the author can create and issue the review.

*Screenshot: Creating a review in the Edit Review Details dialogue*

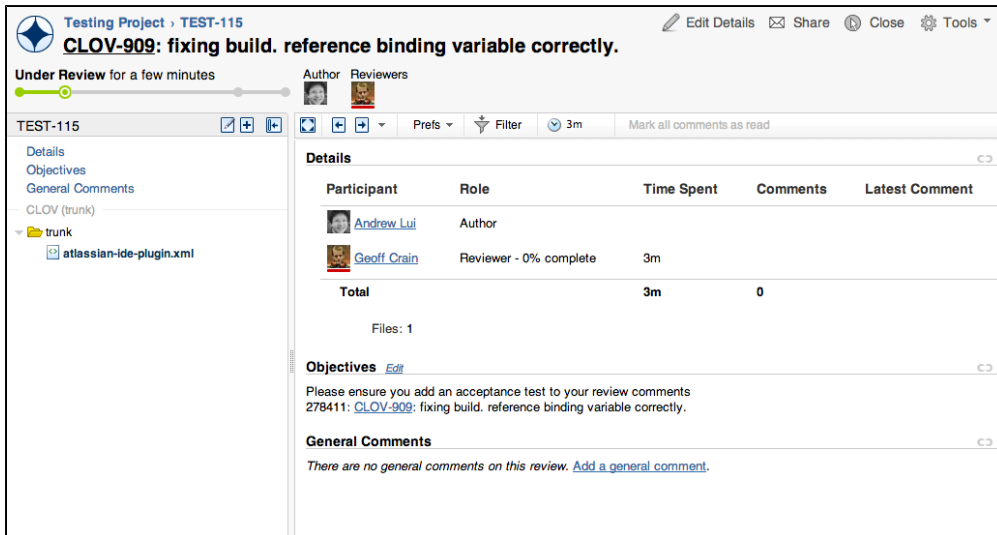


In the Edit Review dialogue, the author enters information needed for the review. This includes entering a title and description for the review, selecting reviewers, a due date and the key for a related JIRA issue (if any). The project and author are pre-selected.

The author can also add more content to the review, if they wish, by clicking **Add Content**. See [Adding content to the review](#).

When finished, the author clicks **Done**. The review will now be created in a draft form.

*Screenshot: A new Crucible review*



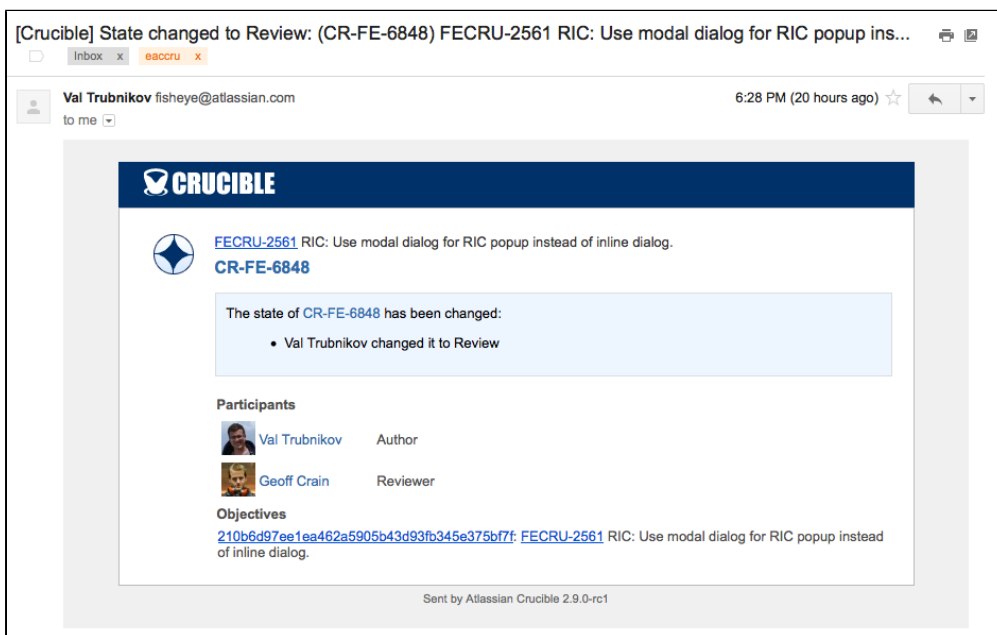
The draft review opens. In the draft stage, the author can check the contents of the review files to ensure they are correct and put in any notes for reviewers as comments. During the draft phase, no notification emails are sent out to reviewers. Once the author is finished with the draft phase, he clicks **Start Review**.

The review will now be started and a notification email will go out to all participants. This lets them know that the review is under way and prompts them to take action, providing a URL for direct access to the review.

## 2. The reviewer comments on the code

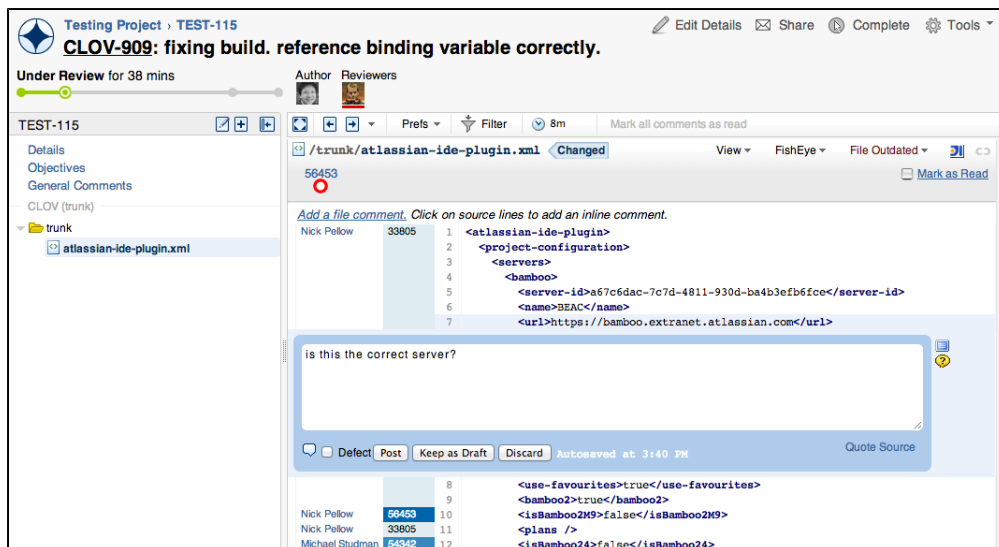
The reviewer will receive an email from Crucible with a link that they can follow to the review.

*Screenshot: A Crucible review notification email*



When the reviewer clicks the link in the notification email, the Crucible Review screen opens.

*Screenshot: The Crucible Review screen*



The Review screen displays the source files that are under review. The reviewer clicks file names to see the code to be reviewed. As the reviewer reads the changes, they can **add comments**:

- Click **Add a general comment** (under 'General Comments' on the Review screen) to comment on the overall review.
- Click **Add a file comment** (just above the source code listing) to add a general comment about a source code file.
- Click on any line in the source file to enter a comment there (multiple lines can be selected by clicking and dragging).

The reviewer clicks **Post** to add the comment to the review.

The reviewer repeats this process for all files in the review. Reviewers can leave the session and resume it later; their work is automatically saved.

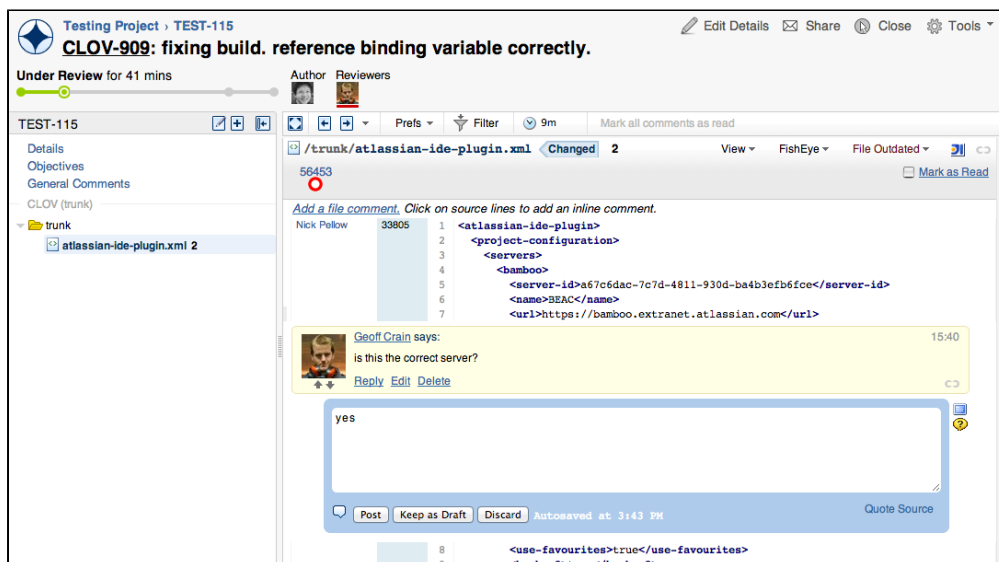
When the reviewer has finished their code review work, they click **Complete**.

**i** By default, an email is sent to participants every time a comment is posted. This is an individual setting. Each reviewer can [configure their own profiles](#) to adjust the list of events that will trigger email notifications.

### 3. The author responds to the comments

During the review process, the author can also make contributions, responding to reviewer comments and making corrections.

*Screenshot: Comment threads in Crucible*



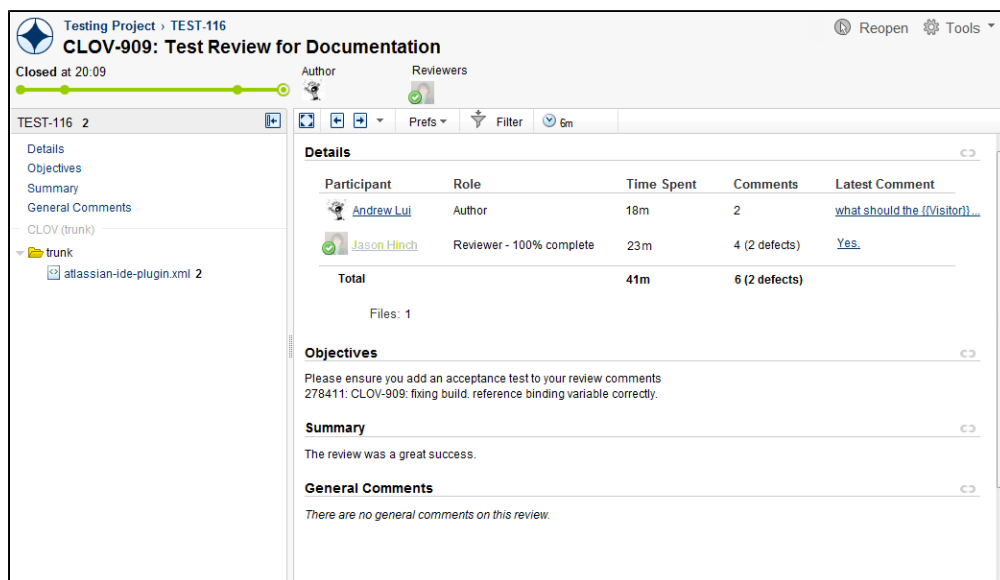
#### 4. The author closes the review

When all reviewers have "Completed" their reviews, the author is notified via email. The author clicks the link in the notification email, returning to the Review screen.

The author can then add any final comments, and click **Close** when finished.

This closes the review, signalling the end of work. A final email notification will be sent to the review participants, informing them that the review is now closed. The closed review screen will load, archiving the completed review as read-only.

*Screenshot: Viewing a closed review*



If the author ever needs to resume work on the closed review, they can simply click **Reopen** when viewing this screen. This returns the status of the review to "Open", without changing the status of existing reviewers. Click **Edit Details** to add reviewers or to change other details of the review.

### Defining your workflow

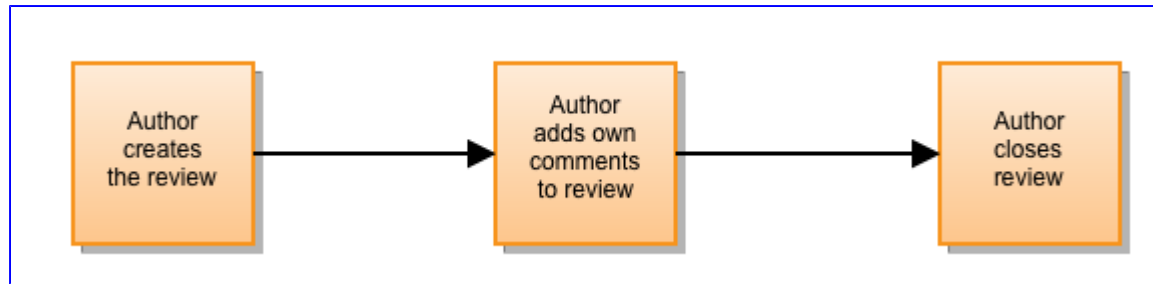
This document describes several forms of Crucible Workflow in detail. Depending on the size of your team, there are four different ways that a development team could use Crucible for code reviews. Choose the workflow which suits your team.

- [Lightweight Code Commenting with Crucible \(individual\)](#)
- [One-to-One Reviews \(Agile Pair\)](#)
- [One-to-Many Reviews Without a Moderator \(Agile Team\)](#)
- [Formal Group Reviews \(CMM Team\)](#)

#### Lightweight Code Commenting with Crucible (individual)

1. [Author](#) commits new work.
2. Author creates the review, and adds comments using the easy web interface.
3. Author summarizes and closes the review, saving the code comments in Crucible's database, which is stored outside the repository.

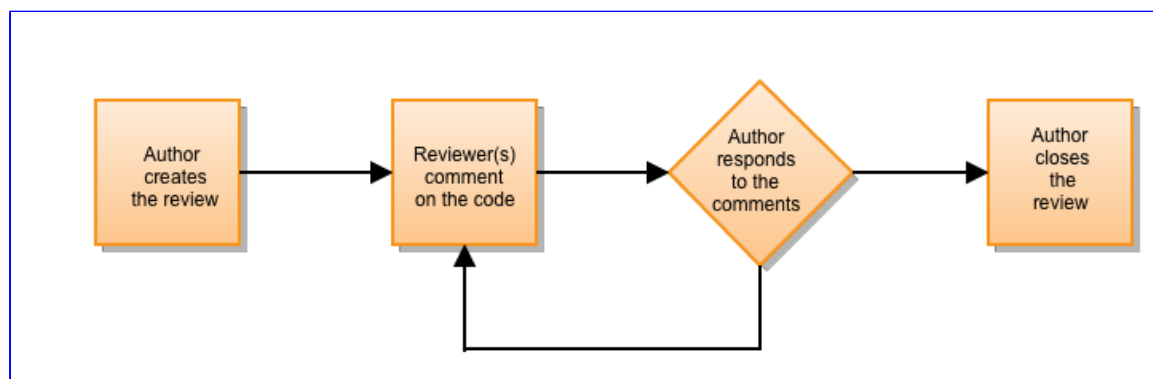
*Diagram: Workflow for Lightweight Code Commenting*



#### One-to-One Reviews (Agile Pair)

1. [Author](#) creates the review.
2. Author invites reviewer to take part in the review.
3. [Reviewer](#) creates comments on the code.
4. Author responds to reviewer comments.
5. Follow-up comments are made if necessary.
6. Reviewer finishes own review process.
7. Author summarizes and closes the review.

*Diagram: Workflow for One-to-One Reviews*

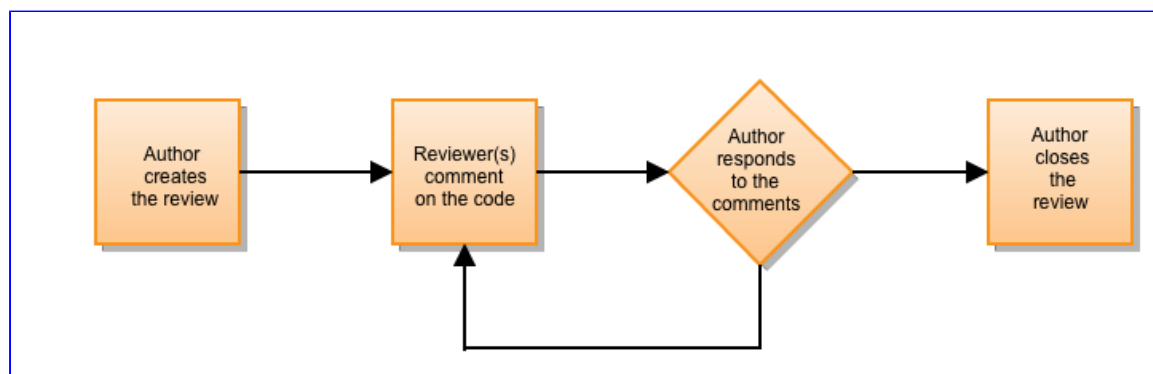


For more information on one-to-one reviews, see [The Crucible workflow](#). The workflow process in Crucible is covered in detail within this document.

#### One-to-Many Reviews Without a Moderator (Agile Team)

1. [Author](#) creates the review.
2. Author invites [reviewers](#) to take part in the review.
3. Reviewers make comments on the code.
4. Author responds to reviewer comments, follow-up comments are made if necessary.
5. Reviewers complete their reviews.
6. Author summarizes and closes the review.

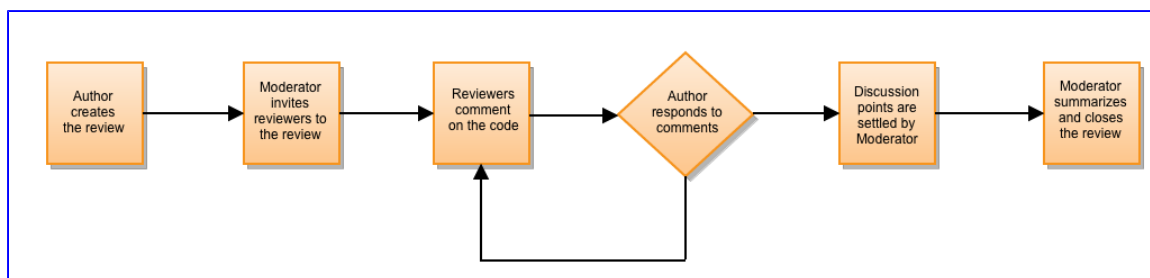
*Diagram: Workflow for One-to-Many Reviews*





**Formal Group Reviews (CMM Team)**

1. [Author](#) creates the review.
2. [Moderator](#) invites [reviewers](#) to take part in the review.
3. Reviewers make comments on the code.
4. Author responds to reviewer comments.
5. Follow-up comments are made if necessary.
6. Each discussion point is settled by the Moderator.
7. Moderator summarizes and closes the review.

*Diagram: Workflow for Formal Group Reviews*

To see a simple example of how to use Crucible with two people, see [The Crucible workflow](#).

**Roles and Status Classifications**

This page explains the roles and status classifications in Crucible.

- [Roles in Crucible](#)
  - [Author](#)
  - [Creator/Moderator](#)
  - [Reviewer](#)
  - [User](#)
- [Status Classifications in Crucible](#)
  - [Draft](#)
  - [Under Review](#)
  - [Summarized](#)
  - [Closed](#)
  - [Abandoned](#)

**Roles in Crucible****Author**

The *author* is the person primarily responsible for acting on the outcomes of the review. In the vast majority of cases the author will be the person who made the code change under review.

**Creator/Moderator**

The *creator* is the person who [creates the review](#). In most cases this person will also act as [moderator](#). The *moderator* is the person responsible for [creating](#) the review, [approving](#) the review, determining when reviewing is finished, [summarising](#) the outcomes and [closing](#) the review. By default, the moderator is the [creator](#). See also [author](#), the person whose changes to the code are to be reviewed.

**Reviewer**

A *reviewer* is a person assigned to [review the change](#). Reviewers can make [comments](#) and indicate when they have [completed their review](#). The [moderator](#) and [author](#) are implicitly considered to be participants of the review, but are not reviewers.

#### User

A *user* is a person using Crucible.

#### Status Classifications in Crucible

##### Draft

Draft Reviews are not yet completed or released to the reviewers.

##### Under Review

Reviews Under Review are either waiting for attention by reviewers or waiting to be summarized.

##### Summarized

Summarized reviews are past the reviewing phase. The moderator can still add conclusions or comments.

##### Closed

Closed reviews are complete.

##### Abandoned

Abandoned reviews are 'in the trash'. Reviews must be Abandoned before they can be deleted.

See also the [Glossary of terms](#) used in Crucible.

## Creating a review

This page provides an overview of how to create a review in Crucible.

More information about the stages in creating a Crucible review can be found on these pages:

- [Add content to the review](#)
- [Choose reviewers](#)
- [Perform the review](#)
- [Summarise and close the review](#)

You can also create Crucible reviews in these other ways:

- [Creating a review from FishEye](#)
- [Creating a review from JIRA](#)
- [Creating a review from a URL](#)
- [Creating a Snippet Review](#)
- [Creating reviews from the command line](#)

 Note that only people with the 'Create' [permission](#) can create a review.

#### On this page:

- [Create a new review](#)
- [Add content to the review](#)
- [Edit the review details](#)
- [Considerations when creating reviews](#)

## Create a new review

Within Crucible, create a new review by clicking **Create review** in the header. Select the project for the review (if you have multiple projects), and click **Create Review**.

### Add content to the review

In the 'Add Content to Review' dialog, click one of the options to choose files or changesets for review. Crucible supports post-commit and pre-commit review types – these simply depend on the type of content you add to the review:

- Post-commit reviews – You want code changes that have already been committed to the SCM to be reviewed. In Crucible, you can browse and search for files or changesets in the SCM, which you then add to the review. Crucible can suggest files that should be considered for review, based on recent activity.
- Pre-commit reviews – You want code changes that have not yet been committed to the SCM to be reviewed. You need to [create a patch file](#) for the code changes and then, in Crucible, [add the patch](#) to the review.

See [Adding content to the review](#) for more details.

|  |  |
|--|--|
| <b>Browse Changesets</b> – browse for SCM changesets |  |
| <b>Explore Repositories</b> – browse for SCM files   |  |
| <b>Search for Files</b> – or changesets, in the SCM  |  |
| <b>Suggest Files</b> – get Crucible to suggest files |  |
| <b>Pre-commit</b> – upload patch files               |  |
| <b>Attachments</b> – upload any type of file         |  |


Note that Crucible supports [iterative](#) reviews – for both post-commit and pre-commit reviews you can update the review with new versions of files, and changesets, created after the review was started. Crucible allows the reviewer to see the different versions of updated files, so they can understand the changes that have been made.

Add Content to Review CR-ANERDS-92

Repository: 
User: 
Branch: 
Commit message / Issue key: 


Add to Review as: 
Remove all revisions from review

Monday 06 Jun 2011

☐

Matthew Watson
1:44 am


- ☐
3a50087 changed 1 file
ANERDS-7-tagging
CR-ANERDS-25 | CR-ANERDS-61 | CR-ANERDS-67
Added tag 1.1.0 for changeset 880f20affd1c
- ☐
1f36848 changed 1 file
ANERDS-7-tagging
CR-ANERDS-54 | CR-ANERDS-61 | CR-ANERDS-67
Added tag ANERDS-5-fix for changeset 6839b93ed721

Thursday 26 May 2011

☐

jstepka
6:43 pm

- ☐
880f20a changed 3 files
default
CR-ANERDS-61
Adding a project readme

Wednesday 25 May 2011

☐

Matthew Watson
11:07 am

- ☐
a7141b9 changed 1 file
ANERDS-3-integration
CR-ANERDS-9 | CR-ANERDS-54
ANERDS-3: Merge latest changes from default

Click **Edit Details** to move to the next stage.

### Edit the review details

In the Edit Review dialog you can set information for the review, including:

- a title and description for the review
- reviewers (as a mix of individual users and groups) - see [Choosing reviewers](#)
- objectives for the review
- a due date
- a reminder date
- the keys for linked reviews (if any)
- the keys for related JIRA issues (if any).

The project, moderator and author are pre-selected.

Edit Review Details CR-ANERDS-91

Project: CR-ANERDS  
Title: **Test review**  
Author: Paul Watson  
Reviewers:  [Suggest reviewers...](#) ☐ Allow anyone to join

Objectives:

Due Date:    
Send Reminder:  working day before ([remove](#))  
Linked Review:  [Link](#)  
Linked Issue:  [Link](#)

Add Content Abandon Review Start Review Done

Once you're finished, click **Done**.

Angry Nerds Reviews  
CR-ANERDS-91

Edit Details Start Review Share Tools

DRAFT for a few seconds | due in 6 days Author

Test review

CR-ANERDS-91

This review is in edit mode

Here you can edit files already in your review

- Click the red 'x's to remove files and revisions
- Click the 'Add Revisions' menu item in a file's toolbar to add newer (or older) revisions

Details  
Objectives  
General Comments  
Number of files included: 1  
angrynerds (ANERDS-7-tagging)  
 .hgtag x

Details

| Participant                 | Role   | Time Spent | Comments | Latest Comment |
|-----------------------------|--------|------------|----------|----------------|
| <a href="#">Paul Watson</a> | Author | 9m         |          |                |
| Total                       |        | 9m         | 0        |                |

Objectives [Edit](#)

No objectives entered. Objectives let your reviewers know what the goals of the review are and guide their feedback. [Add some objectives.](#)

Commits

| Commit | Author | Date | Comment |
|--------|--------|------|---------|
|--------|--------|------|---------|

General Comments

There are no general comments on this review. [Add a general comment.](#)

The review will be displayed in draft mode. Here, you can check all the details and click to edit any that aren't correct. Once you click **Start Review**, the review is live.

See [Performing the review](#).

When all the reviewers have performed their reviews, you can [summarise and close](#) the review.

## Considerations when creating reviews

### Review effectiveness

Based on our own experience of over 13000 reviews, we have found that reviews with fewer files and reviewers are more effective. We have seen effects such as:

- Time spent reviewing each file decreases as the number of files increases.

- Reviewers spend less time reviewing as the number of reviewers increases.
- Reviewers find fewer defects as the number of reviewers increases.

This suggests that reviews should be created with care to get the best value from them:

- Avoid overloading the review. Reviews should be focussed on just a few necessary files.
- Avoid overcrowding the review. Reviewers should be selected with care, and should be guided individually on what to look for.

#### Crucible performance

The performance of a Crucible instance can be seriously degraded if very large reviews are created.

To prevent a user from accidentally causing this, Crucible has a limit on the review content size when creating reviews. The limit is 800 file revisions.

#### Adding an entire directory's contents to a Crucible review

To add an entire directory's contents to a Crucible review, you will need to search to find all the files, for example using "select revisions from dir /some/dir where is head and not is deleted", or similar logic.

**i** It is currently not possible in Crucible to add all the contents of a directory to a review with one click.

### Creating a review from FishEye

This page explains how to create a Crucible review from FishEye.

#### On this page:

1. Open the FishEye Source view
2. Create the review
3. Choose a project

#### 1. Open the FishEye Source view

To begin, the code author sets up the review. There are [other ways to do this](#), but for this example, the author starts from the FishEye Source view of the file he or she wants to have reviewed.

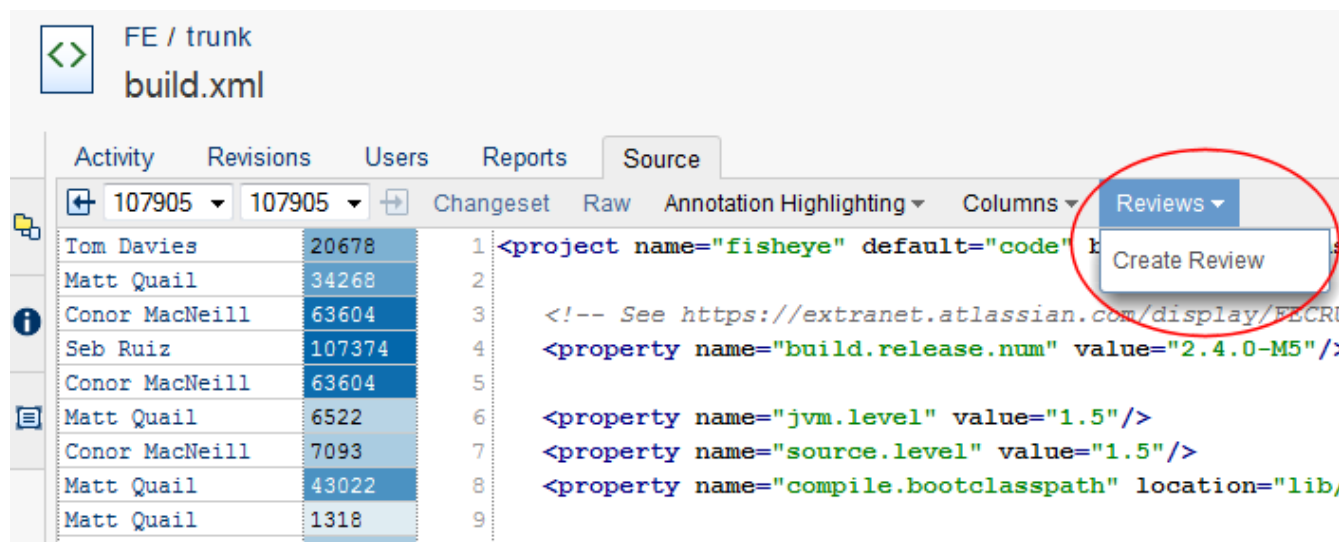
#### To navigate to the Source view for a file:

1. Click **Repositories** in the toolbar and choose a repository.
2. Use the file tree to navigate to the file to be reviewed.
3. Click the **Source** tab.

#### 2. Create the review

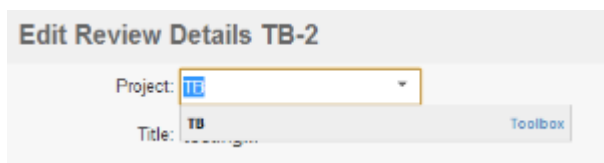
#### To create the review:

- From the FishEye Source view, choose **Reviews > Create Review**.



### 3. Choose a project

In the Edit Review Details dialog, choose the project for this review, and add reviewers. Now click **Start Review**.



## Creating a review from JIRA

This page describes how to create a Crucible review directly from an issue in [JIRA](#), the Atlassian issue-tracking application.

**?** JIRA must be integrated with *both* FishEye and Crucible before you can do this.

See [Linking Crucible to JIRA](#) for information on how to set up an application link with JIRA.

See also [Creating JIRA issues from the review](#).

### When using Crucible with JIRA 6.2.x and later

If your instance of Crucible (version 3.3 or later) is linked to JIRA 6.2 (or later), then you can start creating a review from a JIRA issue.

#### To create a review from a JIRA issue:

1. Go to the JIRA issue that relates to the work to be reviewed.
2. Click the **commits** link in the Deployment panel.
3. Click the **FishEye / Crucible** tab.
4. Start the process for creating a review for either a single commit, or for all the commits related to the JIRA issue.
5. In Crucible, the new review is in edit mode:
  - The content of the changeset becomes the content (i.e. files) to be reviewed.
  - The author of the commit becomes the [author](#) of the review, if Crucible is aware of this user. Otherwise the [creator](#) of the review becomes the author.
  - The [creator](#) of the review becomes the [moderator](#).
  - The commit log message is used as both the Title and [Statement of Objective](#).
6. Choose **Tools > Start Review**, in Crucible, when you are ready.

### When using Crucible with JIRA 6.1.x and earlier

If you have Crucible linked to a version of JIRA earlier than 6.2 (or if you have instances of Crucible 3.2, or earlier, linked to JIRA 6.2, or later), the integration functionality continues to behave as previously.

▼ [Click here if you're using JIRA 6.1 or earlier...](#)

When Crucible is linked with JIRA 6.1.x, or earlier, Crucible content appears on the **Reviews** tab ( and FishEye content appears on the **Source** tab) in JIRA.

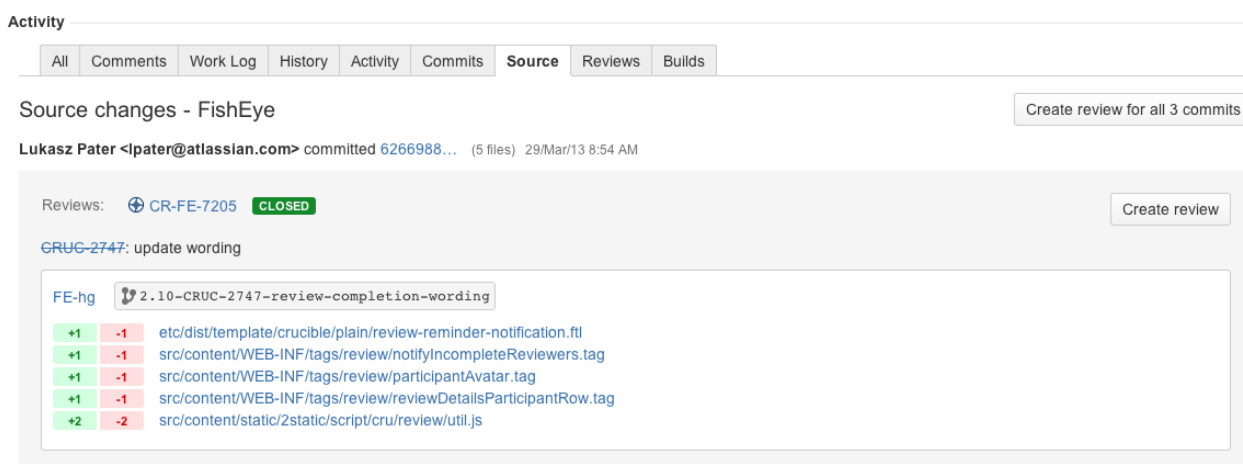
#### To create a review from a JIRA issue:

1. Go to the issue in JIRA that relates to the work to be reviewed.
2. Under 'Activity', click the **Source** tab.
3. Either:
  - a. Click **Create review** to create a new review for a particular changeset.
  - b. Click **Create review for all commits** to include all changesets from the JIRA issue in the new review.
4. If a similar review already exists, you can add the changesets to that.
5. In Crucible, the new review is in edit mode:
  - The content of the changeset becomes the content (i.e. files) to be reviewed.
  - The author of the changeset becomes the [author](#) of the review, if Crucible is aware of this user. Otherwise the [creator](#) of the review becomes the author.
  - The [creator](#) of the review becomes the [moderator](#).
  - The commit log message is used as both the Title and [Statement of Objective](#).
6. Choose **Tools > Start Review**, in Crucible, when you are ready.



The next step is to [add reviewers](#).

*Screenshot: Adding a review from within JIRA*



## Creating a review from a URL

You can set up a URL that you can then click to create a Crucible review.

The format of your URL is as follows:

```
http://localhost:8060/cru/create?csid=%2F%2F&repo=a%2F1234&csid=%2F%2Frepob%2F7583
```

The parameters are as follows:

| Parameter   | Description  | Required?                         |
|-------------|--|-----------------------------------|
| csid        | The changeset ID. You can specify one or more, of the form //repo/csid (where '%2F' is the URL-encoded form of is '/') | Yes                               |
| repo        | The name of your repository.   | Yes (unless supplied in the csid) |
| title       | The title of your new Crucible review.   | No                                |
| description | The description of your new Crucible review.   | No                                |

When you click the URL, you will be prompted to select the relevant [projects](#) if more than one project exists) in which to create your review. A new draft review will then be created, including the following information:

- The content of the changeset becomes the content (i.e. files) to be reviewed.
- The author of the changeset becomes the [author](#) of the review, if Crucible is aware of this user. Otherwise the [creator](#) of the review becomes the author.
- The [creator](#) of the review becomes the [moderator](#).
- The commit log message is used as both the Title (unless you have explicitly defined a title in your URL) and [Statement of Objective](#).

All aspects of the review can be changed. To edit any of the above settings, click the title to see the 'Edit details' screen. Or you can click the [Manage Files](#) tab.

The next step is to [add reviewers](#).

## Creating a Snippet Review

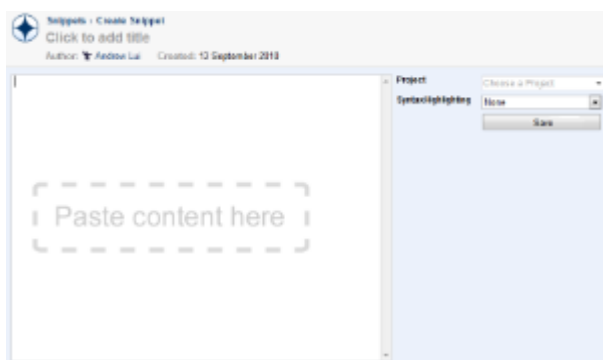
This page explains how to create a simple code review using the Crucible Snippet Review feature. Snippet Reviews are designed to be lightweight ad-hoc code reviews.

### To create a snippet review:

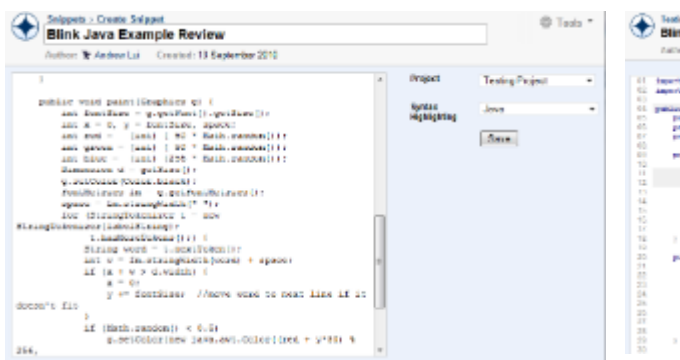
1. Copy the code to be reviewed from the source to your system clipboard.
2. Click **Create snippet** from the **Create review** menu in the Crucible toolbar.
3. Enter details for the snippet review:
  - Paste the code into the panel, where indicated.
  - Click on **Click to add title** near the top to enter a title for your review. If you don't specify a title, one will be automatically created for you.
  - Select a project from **Project**.
  - Select a programming language from **Syntax Highlighting**.
4. Click **Save** to create the snippet review.
5. Invite anyone that you want to participate in the snippet review by sending them the link to the review. The link is the review key, just above the review title. Anyone who is allowed to view the snippet is allowed to comment on it, and can close it.
6. Click **Reply** on any comments to respond.
7. Choose from the **Tools** menu to either close or delete the snippet review. Anyone can re-open, re-review or close snippet reviews, however, only the creator of a snippet review can delete it.

You can see your own snippets, or everyone's snippets, by choosing **Reviews > Review dashboard**. See [Searching Crucible](#) for information about filtering snippet reviews.

*Screenshots: Creating a Snippet Review (click to view larger images)*



Step 1



Step 2

## Creating reviews from the command line

You can use the Review CLI tool to create reviews in Crucible, for patches and commits, directly from your terminal. It takes the uncommitted changes in your workspace and creates a review for them in Crucible. The Review CLI tool may be especially useful if:

- you often create pre-commit reviews
- you want to submit a diff from an external tool for review

You can use the tool on Windows, Linux and Mac OS X, for repositories that are managed in:

- Subversion
- Perforce
- Git
- Mercurial
- CVS

The tool supports Crucible 3.0, and later versions. Python 2.7 must be installed on your local machine (Python 3 is not supported).

You can use the tool to create new reviews, and to update existing reviews with new patches.

### Known limitations

- The CLI tool does not yet allow you to create a review for an existing commit.
- The CLI tool takes all the files that have been modified, added or removed in the working copy and submits those for review. It doesn't support choosing only files associated with a specific changeset.

- You can only use the CLI tool to create reviews in projects for which you already have review create [permission](#).

#### On this page:

- [Installing the Review CLI tool](#)
- [Python](#)
- [Using the Review CLI tool](#)

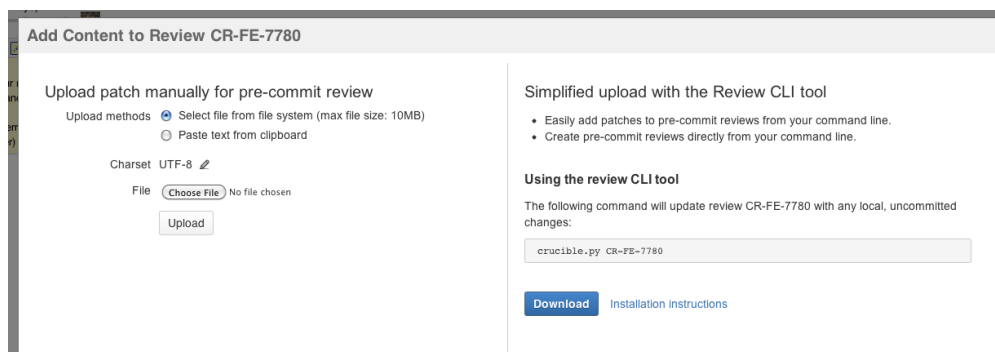
#### Related pages:

- [Creating a review](#)
- [Adding content to the review](#)

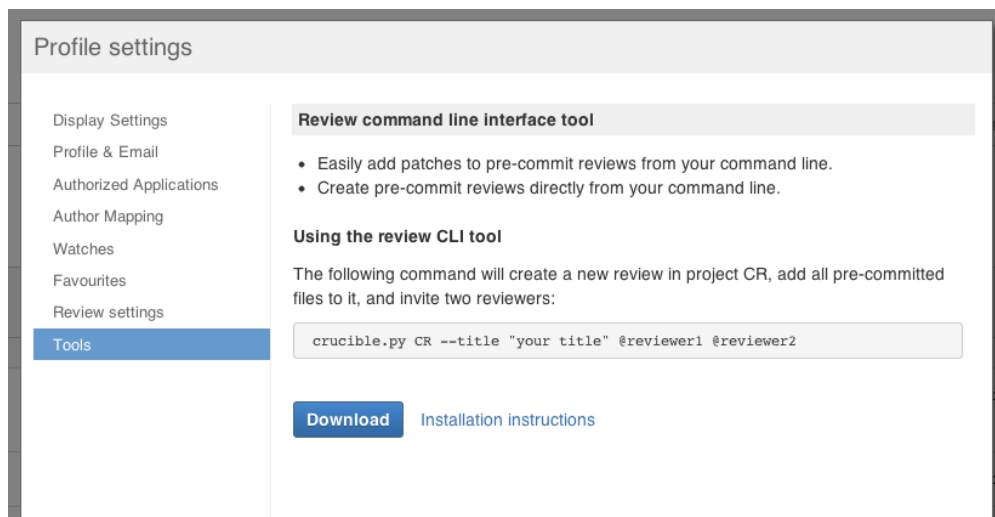
### Installing the Review CLI tool

Download the Review CLI tool from either of the following locations in Crucible:

- When creating a review, click **Pre-commit** in the 'Add Content to Review' dialog, then click **Download**:



- Choose **Profile settings** from your user menu, and then **Tools**. Click **Download**:



The script comes pre-configured for the user for the given SCM server.

Copy the script to a location somewhere in your system path, for greatest ease of use.

#### Python

Python 2.7 is required.

#### Linux

Python 2.7 should come with your distribution. If not, or if 2.7 isn't installed, you will need to install the appropriate package. Please refer to your package manager for the appropriate version.

**Windows**

You can install Python by running the latest [Python 2.7 Installer](#) for Windows.

**MacOS X**

Python 2.7 should come with any modern version of MacOS X. You can also download Python 2.7 from <http://www.python.org/getit/>.

**Using the Review CLI tool**

To create a review using the Review CLI tool, run the script from a directory under SCM control that has local, uncommitted changes. The changes will be submitted to Crucible for review.

Call the script with the following command:

```
crucible.py <arguments list>
```

The Review CLI syntax is consistent with that for Crucible and FishEye [smart commits](#). Examples of syntax usage are provided in the following table:

| Action   | Syntax  | Result   |
|--|---|--|
| View usage help  | <code>crucible.py --help</code>                           | Displays the help with descriptions of all the valid commandline arguments   |
| Create a pre-commit review interactively                     | <code>crucible.py</code>                                  | Gets the patch from the current SCM, prompts for the project and review title, and creates a draft review  |
| Create a pre-commit review with a given project and title    | <code>crucible.py -m "the review title" CR-FE</code>      | Gets the patch from the current SCM, creates a draft review in the CR-FE project with the given title  |
| Create a pre-commit review with moderator and reviewers      | <code>crucible.py CR-FE @matt @joe --moderator ted</code> | Gets the patch from the current SCM, creates a review in the CR-FE project, adds matt and joe as the reviewers and ted as a moderator, starts the review |
| Create a pre-commit review anchored to a specific repository | <code>crucible.py -r rep01</code>                         | Creates a pre-commit review interactively, trying to anchor the patch to the given repository  |
| Add a patch to a review                                      | <code>crucible.py CR-FE-1204</code>                       | Gets the patch from the current SCM and adds it to the review CR-FE-1204   |
| Create a review from diff output                             | <code>hg diff   crucible.py</code>                        | Creates a pre-commit review interactively, taking the output of the first command as a patch   |
| Create a review from a diff file                             | <code>crucible.py -f file.diff</code>                     | Creates a pre-commit review interactively, taking the output of the patch from the given file  |

**Adding content to the review**

This page explains how to add content, such as files and changesets, to a Crucible review. The procedure depends on whether you are setting up a post-commit or pre-commit review:

- **Post-commit reviews** – You want code changes that have already been committed to the SCM to be reviewed. In Crucible, you can browse and search for files or changesets in the SCM, which you then add

to the review. Crucible can suggest files that should be considered for review, based on recent activity.

- Pre-commit reviews – You want code changes that have not yet been committed to the SCM to be reviewed. In Crucible, you need to [add patch files to a pre-commit review](#).

#### Related pages:

- [Creating a review](#)
- [Iterative reviews](#)
- [Choosing reviewers](#)
- [Performing the review](#)


Note that Crucible supports 'iterative' reviews – for both post-commit and pre-commit reviews you can update the review with new versions of files, and changesets, created after the review was started.

#### On this page:

- [General procedure](#)
- [Selecting changesets for review](#)
- [Selecting repository files for review](#)
- [Searching for files to review](#)
- [Adding patch files to a pre-commit review](#)
- [Adding attachments to a review](#)
- [Choosing the way files are added to the review](#)

### General procedure

#### To add content to a review:

1. Log in to FishEye/Crucible and either;
  - Create a new review, as described on [Creating a review](#), or
  - Open an existing review, for which you are the [creator](#) or [moderator](#), and click the Add Content () button.
2. In the 'Add Content to Review' dialog, click an option for how you wish to add content to the review, and then follow the instructions in the relevant section below:

| Post-commit reviews         |   |
|-----------------------------|---|
| <b>Browse Changesets</b>    | Allows you to choose changesets from a Source Code Management (SCM) repository. See <a href="#">Selecting changesets for review</a> below.                                  |
| <b>Explore Repositories</b> | Allows you to browse for files in a SCM repository. This option only appears when FishEye is installed. See <a href="#">Selecting repository files for review</a> below.    |
| <b>Search for Files</b>     | Allows you to search a SCM repository for files or changesets. This option only appears when FishEye is installed. See <a href="#">Searching for files to review</a> below. |
| Pre-commit reviews          |   |
| <b>Pre-commit</b>           | Allows you to upload patch files to a review. See <a href="#">Adding patch files to a pre-commit review</a> below.  |
| All reviews                 |   |
| <b>Attachments</b>          | Allows you to upload any file to a review, including binary files and files outside of a SCM repository. See <a href="#">Adding attachments to a review</a> below.          |

3. Click **Done** to save your changes, without starting the review.

### Selecting changesets for review

Click **Browse Changesets** in the 'Add Content to Review' dialog to add SCM changesets to your review.

By default, Crucible presents a list of the author's changesets in reverse chronological order. You can see other changesets by changing the options at the top of the dialog:

|                            |  |
|----------------------------|--|
| <b>Repository</b>          | A list of the repositories that contain the files that can be reviewed. If the repository you require is not in the list then it has not been added to FishEye. Please contact your Crucible/FishEye administrator.                      |
| <b>Author</b>              | A list of all the <a href="#">authors</a> who have made changes within the repository. When creating a review, this will default if possible to the username of the user authoring this review and will therefore show their changesets. |
| <b>Branch</b>              | This will only show files and recent changes on that branch from the repository set above.   |
| <b>Commit message</b>      | Filter for specific commit messages.   |
| <b>Add to Review as</b>    | Choose the form of the review. See <a href="#">Choosing the way files are added to the review</a> below.   |
| <b>Scroll to changeset</b> | Allows you to jump to a particular change set by entering its title and pressing Enter.  |

Select the checkbox next to a changeset ID to add the entire changeset. Note that:


- You cannot add individual file revisions to a review, although you can remove them once the changeset is added. Click **Remove all revisions from review** to remove all.
- You cannot add changesets that are entirely svnprops changes (i.e. it has no non-metadata changes). For details, see [How do I force reviews to include SVN property changes?](#)

Add Content to Review TEST-323

|  |  |                                      |
|--|--|--------------------------------------|
| Repository: <input type="text" value="atlassian"/> | Author: <input type="text" value="any"/>         | <input type="button" value="Apply"/> |
| Branch: <input type="text" value="any"/>           | Commit message: <input type="text" value="any"/> |                                      |

Add to Review as:

**Sunday 20 Mar 2011**

|                          |  |         |
|--------------------------|--|---------|
| <input type="checkbox"/> |  <b>Matthew Watson</b><br>40930 added 1 file <a href="#">trunk</a> <a href="#">FOUR-24</a><br>Moved to atlassian account on bitbucket | 9:22 pm |
| <input type="checkbox"/> | 40929 added 1 file <a href="#">trunk</a> <a href="#">FOUR-24</a><br>Moved to atlassian account on bitbucket  | 9:21 pm |
| <input type="checkbox"/> | 40928 added 1 file <a href="#">trunk</a><br>Moved to atlassian account on bitbucket  | 9:18 pm |
| <input type="checkbox"/> | 40927 added 1 file <a href="#">trunk</a><br>Moved to atlassian account on bitbucket  | 9:18 pm |
| <input type="checkbox"/> | 40926 added 1 file <a href="#">trunk</a><br>Moved to atlassian account on bitbucket  | 7:56 pm |
| <input type="checkbox"/> | 40925 changed 1 file <a href="#">trunk</a><br>Moved to atlassian account on bitbucket  | 7:51 pm |

## Selecting repository files for review

Click **Explore Repositories** on the 'Add Content to Review' dialog to browse the SCM repositories for files to add to your review:

- By default, the folders are sorted by path name but they can also be sorted by last-commit or first-commit.
- To select a particular revision of a file, select **Load full history...** from the revision number list. This will refresh the available options in the list.

Note that:

- Empty folders are greyed out.

- The 'Cog' menu has options to **Hide empty directories** and to **Hide deleted files**.

Add Content to Review TEST-323

Repository:

Add to Review as:  [Remove all revisions from review](#)

Files in atlassian/

| NAME  | REV                |
|---|--------------------|
| <input checked="" type="checkbox"/> admin.vm  | 39123 by jhatherly |
| <input checked="" type="checkbox"/> config.vm | 39123 by jhatherly |

Buttons: [Add More Content](#) [Edit Details](#) [Abandon Review](#) [Start Review](#) [Done](#)

## Searching for files to review

Click **Search for Files** on the 'Add Content to Review' dialog to search for files to add to your review.

⚠ Search is only available when using **FishEye** with Crucible.

Adjust the search filters to find the files you need. If the simple filters are not enough, consider using [EyeQL queries](#).

Read more about [searching your repositories](#) in the FishEye documentation.

Add Content to Review TEST-323

Repository:

Add to Review as:  [Remove all revisions from review](#)

Search in atlassian/

**Search Criteria** [\(Switch to Advanced Search\)](#)

☐ Search all directories

☒ Only most recent versions

Comment:

Contents:

Added text:

Deleted text:

File name:

(Use Ant-globs)

[Search](#)

Author, Tags, Branch, Date, and more [\[ show \]](#)

**Search Results** [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) ... [82](#)

[Add revisions on this page](#) | [Add all 2439 revisions](#)

1 by admin (7 years and 5 months ago) | [show diffs](#)

Initial Layout

☐ 1 [+](#) [-](#) (+0) new

15892 by sleberrigaud (5 years ago) | [show diffs](#)

Creating the Crucible dir on public

☐ crucible 15892 [+](#) [-](#) (+0) new

15893 by sleberrigaud (5 years ago) | [show diffs](#)

Creating the Crucible plugins dir on public

☐ crucible/plugins 15893 [+](#) [-](#) (+0) new

15894 by sleberrigaud (5 years ago) | [show diffs](#)

Creating the Crucible plugin test resources dir on public

☐ crucible/plugins/crucible-plugin-test-resources 15894 [+](#) [-](#) (+0) new

15896 by sleberrigaud (5 years ago) | [show diffs](#)

Creating the tags directory

Buttons: [Add More Content](#) [Edit Details](#) [Abandon Review](#) [Start Review](#) [Done](#)

## Adding patch files to a pre-commit review

Click **Pre-commit** on the 'Add Content to Review' dialog to add previously created patch files to a pre-commit review.

Choose an upload method:

|   |   |
|---|---|
| <b>Select file from the file system</b> | <b>Charset</b> – click the edit icon (✎) to choose the character set being used. <b>UTF-8</b> is the default. |
|   | <b>Choose File</b> – click to browse for the file that you want to add to the review.                         |



|                                  |   |
|----------------------------------|---|
| <b>Paste text from clipboard</b> | <b>Patch text</b> — paste your copied text in this text area. |
|----------------------------------|---|

For more information see [Creating patch files for pre-commit reviews](#).

Add Content to Review TEST-400

Upload patch manually for pre-commit review

Upload methods ☒ Select file from file system (max file size: 10MB)  
☐ Paste text from clipboard

Charset UTF-8 

File Choose File No file chosen

Upload

Patch anchoring

A short-coming of patches for code review is the reduced context around code changes because the patch does not include all lines of code from the file. Crucible 'patch anchoring' overcomes this by searching for the relevant file content in the connected repositories, and automatically anchoring the patch to the trunk or the branch with the most recent commit activity. Crucible can then seamlessly display more context, as required.

See [Using Crucible patch anchoring](#) for more information.

Adding attachments to a review

Click **Attachments** on the 'Add Content to Review' dialog to add attachments to your review.

You can attach additional files to be used in the review, including binary files, images or code files that are not stored in a version control repository.

|                    |   |
|--------------------|---|
| <b>Charset</b>     | Click to choose the character set being used. <a href="#">UTF-8</a> is the default.           |
| <b>Choose File</b> | Browse for a file that you want to add to the review.   |
| <b>Upload</b>      | Browse for a file that you want to use as the base of a diff with a previously attached file. |

To add another iteration of a file, upload a different version of the file with the same filename. It will be added as a new version.

Add Content to Review TEST-323

Charset: UTF-8

File (max 10MB): Choose File No file chosen

[Upload another file as the base of a diff](#)

Upload

Existing Attachments:

- ☒ Edge.java (1) pwatson

Add More Content Edit Details Abandon Review Start Review Done

Choosing the way files are added to the review

When adding files to a review, you can set the form of review taking place in the **Add to Review as** list:

|  |  |
|--|--|
| <b>Diffs</b>                               | This is the default. This allows you to add multiple revisions of a file to one review and compare them in-review, in context with the change history. |
| <b>Whole Files</b>                         | Adds the entire file with all content, rather than just a diff with context.   |
| <b>Diffs to Last Branch Point</b>          | This adds files with a diff to the revision each file was last branched.   |
| <b>Diffs to Last Reviewed Version</b>      | This adds files with a diff to the last reviewed changeset.  |
| <b>Diffs to...</b> (a particular revision) | This allows you to specify the file to show the differences between two specific versions of a file.   |

Click **Done** once you have finished selecting the required files. The files will be added to your review and the review will be displayed.

## Iterative reviews

Crucible supports iterative (cumulative, or incremental) reviews for both post-commit and pre-commit reviews. This allows you to update the review with new versions of files, and changesets (for post-commit reviews) or patches (for pre-commit reviews) that have been created after the review was started.

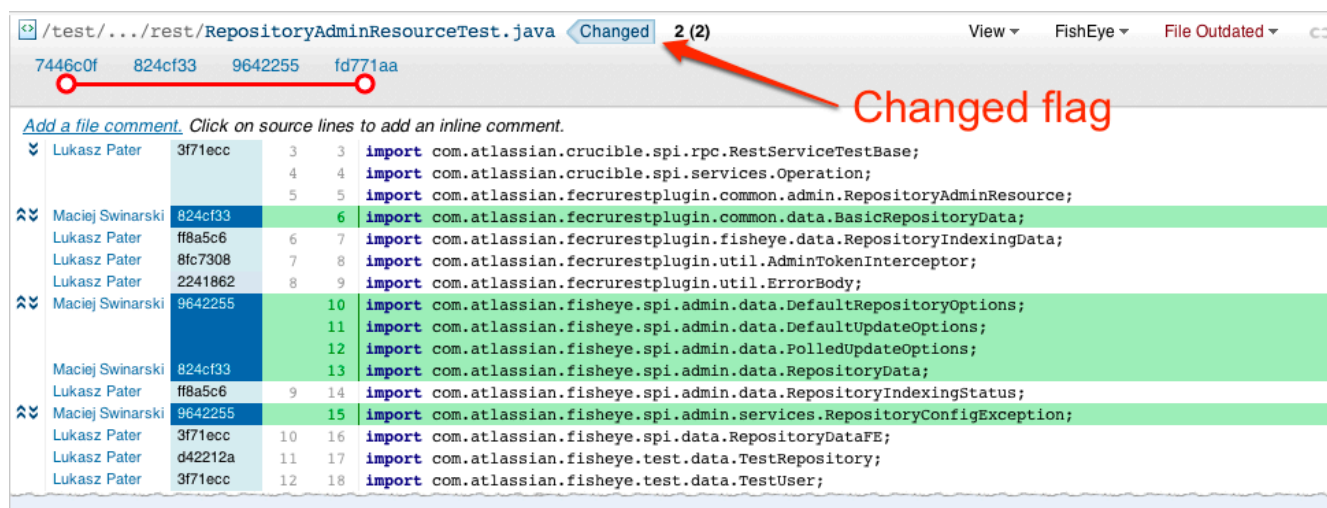
Iterative reviews allow your team to discuss changing code in the context of a single review. This lets the reviewers see all the related changes together, and to more easily keep track of comments and defects.

### On this page:

- [Iterative post-commit reviews](#)
- [Iterative pre-commit reviews](#)
  - [Initial patch upload](#)
  - [Iterative patch uploads](#)
- [Viewing diffs](#)

### Iterative post-commit reviews

To set up an iterative post-commit review, you [create a review](#), and [add content](#) to it, in the usual way. Crucible automatically recognises when files under review have been updated in the repository, and provides the option to add the revision to the review.



See [Viewing diffs](#) below for information about the slider and diffs.

### Iterative pre-commit reviews

Pre-commit reviews make use of patch files that are uploaded to a review. Crucible allows revisions of patch files to be uploaded to the review, and can display diffs for files in the patches. This allows your team to set up and perform iterative pre-commit reviews.

See [Creating patch files for pre-commit reviews](#).

### Initial patch upload

When uploading the initial patch for a review, Crucible must be able to anchor the patch to a repository if you subsequently want to upload patch iterations. If Crucible is unable to anchor the patch to a repository, you will only be able to upload the patches as separate files.

You upload the initial patch for a review in the usual way – see [Adding content to the review](#).

### Iterative patch uploads


When you add a new iteration of the patch to the review, you can choose which previously uploaded patch it is a revision of. The new patch must be anchored to the same repository as an existing patch.

Note that you cannot add unanchored patches, even if they include full-context diffs. You can include an unanchored *file* in the anchored patch, however Crucible is unable to provide full context for that.

## Add Content to Review CR-10

### Upload patch manually for pre-commit review

Upload methods ☒ Select file from file system (max file size: 10MB)  
☐ Paste text from clipboard

Charset UTF-8 

File  No file chosen

### Existing patches in CR-10

CR-10-patch-0.txt (8 minutes ago) - 2 iterations

▼ ☒ **CR-10-patch-0.txt:** (anchored to svnsample1 : / )

- ☒ trunk/file
- ☒ trunk/copied-and-modified
- ☒ trunk/to-be-modified
- ☒ trunk/moved-and-modified
- ☒ trunk/to-be-moved-and-modified
- ☒ trunk/copied-and-modifie2
- ☒ trunk/added
- ☒ trunk/to-be-removed
- ☒ Mainline/foo

▶ ☒ **CR-10-patch-1.txt:** (anchored to svnsample1 : / )

## Viewing diffs

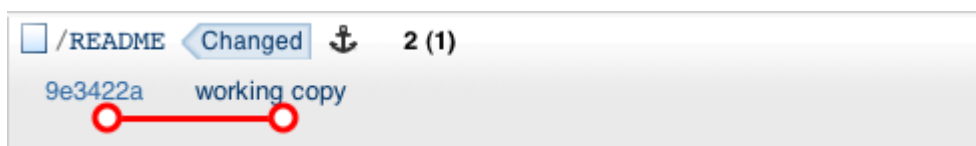
Crucible allows the reviewer to see the different revisions of a file within the same review. The 'slider' in the file view allows you to interactively select which revisions are compared in the displayed diff, and to see the full source content. Comments are connected to, and displayed with, a specific revision. This allows you to review every change that has occurred on a code file over a given range of commits, and lets you see the evolution of the file through various revisions (all within one Crucible review).

These screenshots show how, for a post-commit review, you can drag the slider 'handles' so as to display just the changes in the last commit:



Drag the 'handles' to the same commit to see the full source of that version of the file.

When viewing patch files in a pre-commit review, the slider displays the diff for the selected iterations, in a similar way to that for post-commit reviews. Each patch iteration is referred to as a 'working copy'.



## Creating patch files for pre-commit reviews

This page describes how to create patch files from your local repository, how to attach them to a Crucible review and how to use Crucible's Patch Anchoring to retrieve more context from the original file.

A patch file is a portion of a source code file that contains the code changes that you have made – it's a diff that shows the differences between your working copy and the base revision.

A pre-commit review in Crucible allows a developer's code changes, in the form of a patch file, to be reviewed before those changes are committed to the SCM. A typical scenario is where the developer does not have write access to the repository. The developer creates the patch file and adds it to a Crucible review. Once reviewed, the patch is either committed to the repository or is sent back to the author.

You can create the patch file from your local repository:

- using tools in your IDE – described below
- using repository command-line tools
- using the Crucible Review CLI tool – see [Creating reviews from the command line](#)

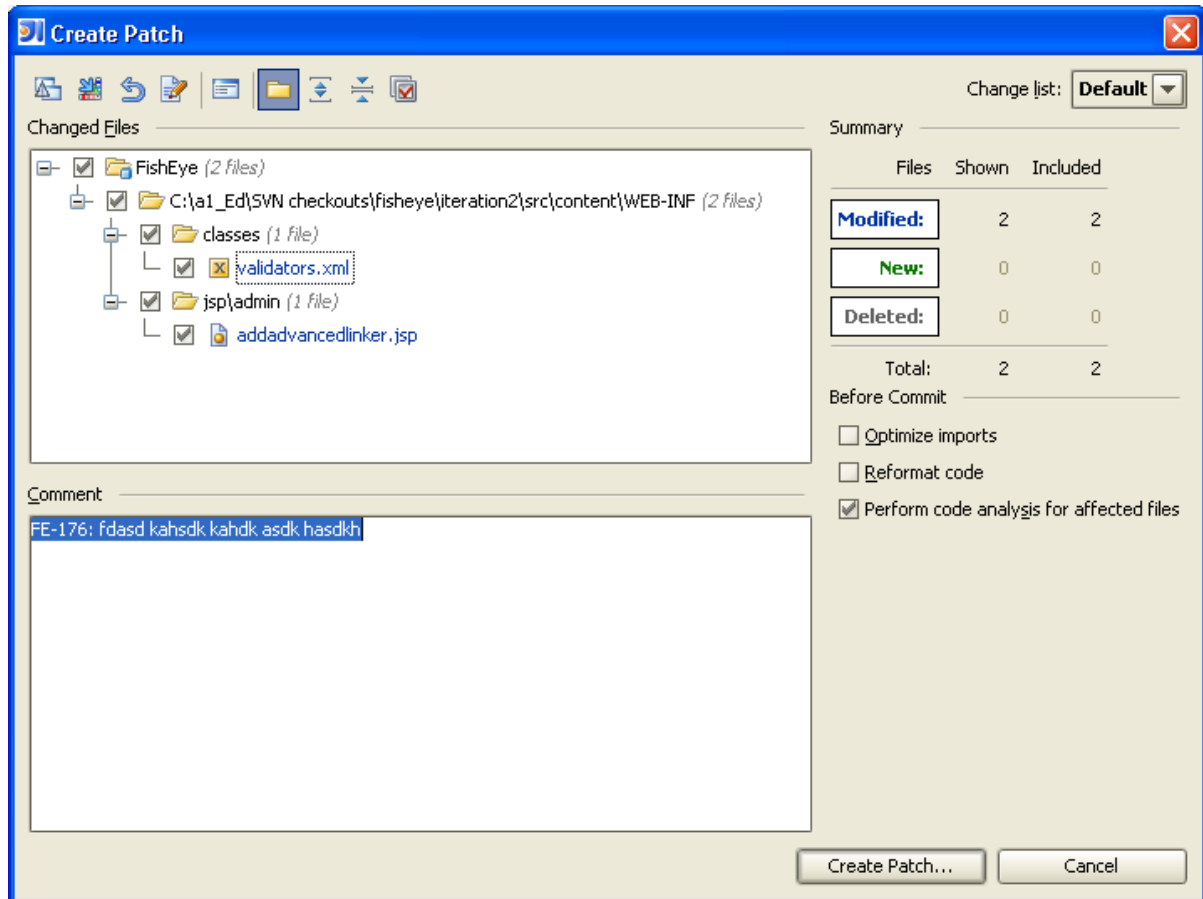
As an enhancement, Crucible's [patch anchoring](#) adds context:

- By default, patch files will only show a few lines of code surrounding each change, rather than the entire file and its changes. This feature overcomes this limitation.
- Note however that anchoring is done as an afterthought, and can be reverted.

**On this page:**

### Creating a patch file from IntelliJ IDEA 7.0

1. Select a parent folder, sub-folder or file that you have altered, in the Project tool window.
2. Select **Version Control > Create Patch**:

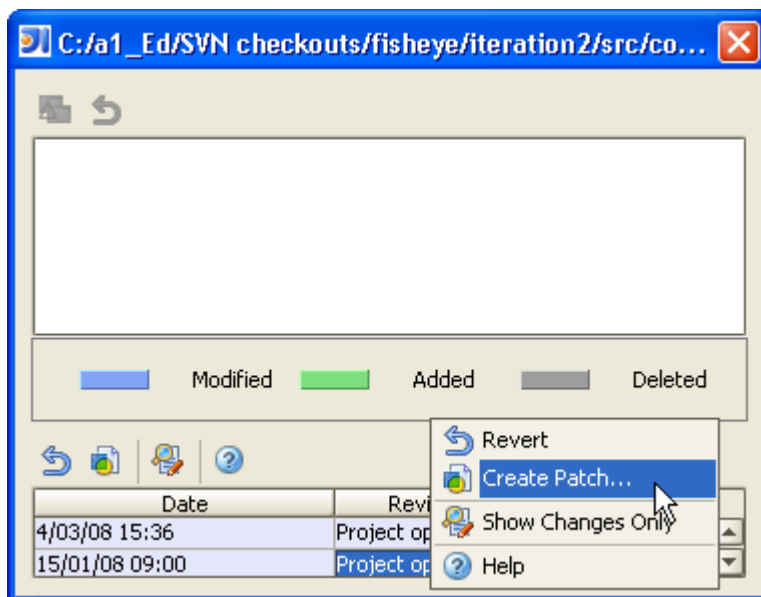


3. Click **Create Patch**, choose a location to save the patch file to, and click **OK**.

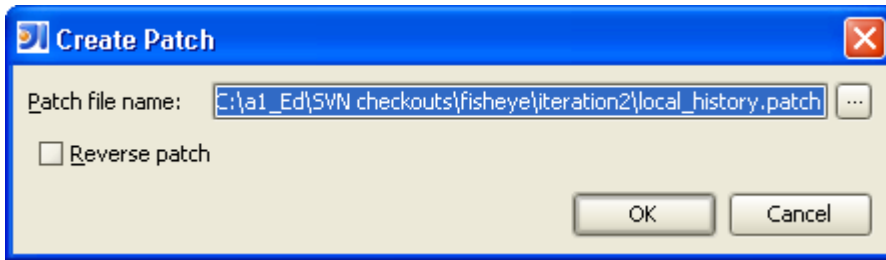
If you do not have the Create Patch command available in IDEA

If you have not configured version control in IDEA, you may not have the **Create Patch** option available. If so, use the following steps to create a patch file in IDEA:

1. Select a parent folder, sub-folder or file that you have altered in the Project tool window, right-click it and choose **Local History > Show History**.



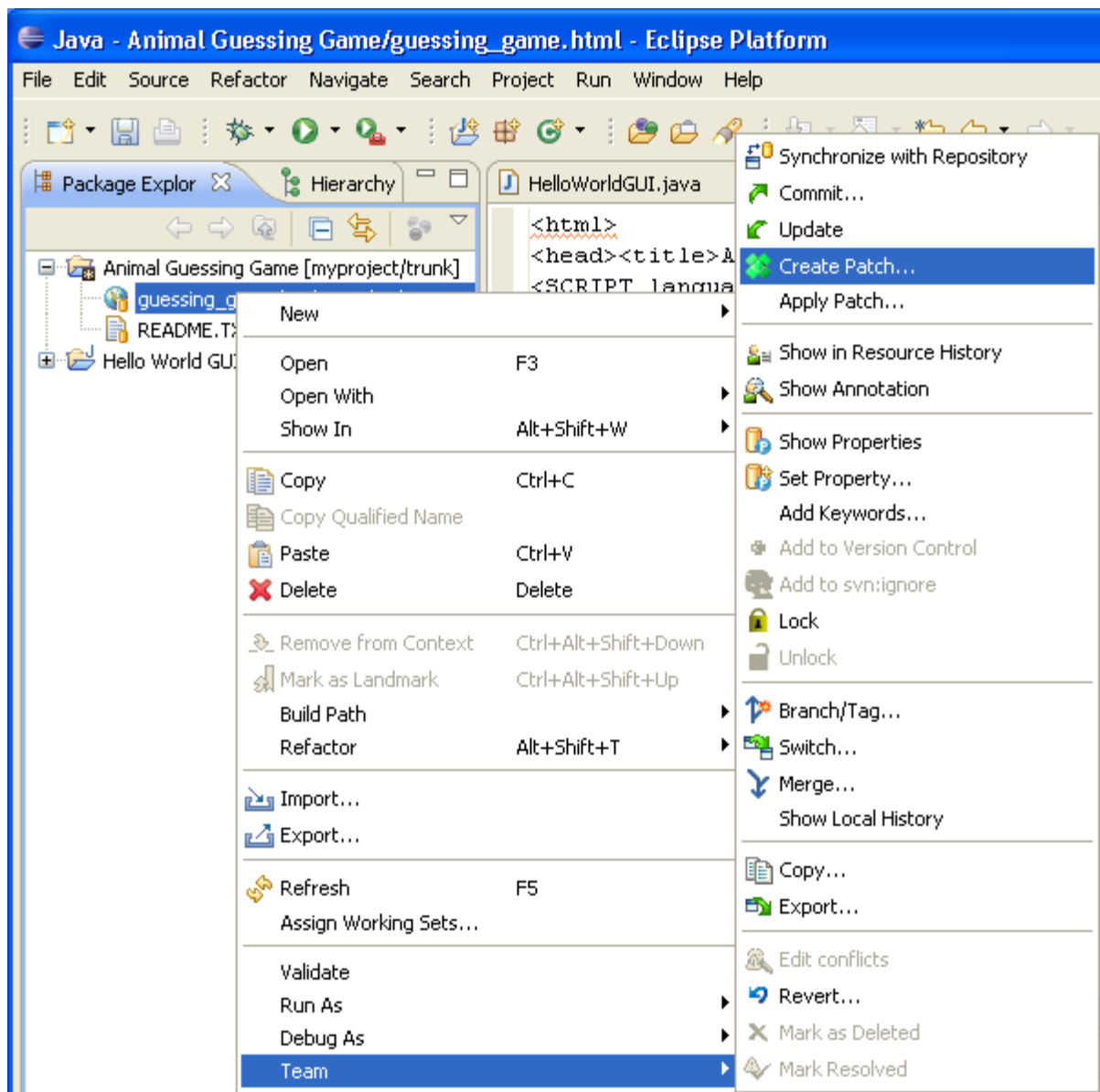
2. In the Local History view, right-click the revision number, and choose **Create Patch**.



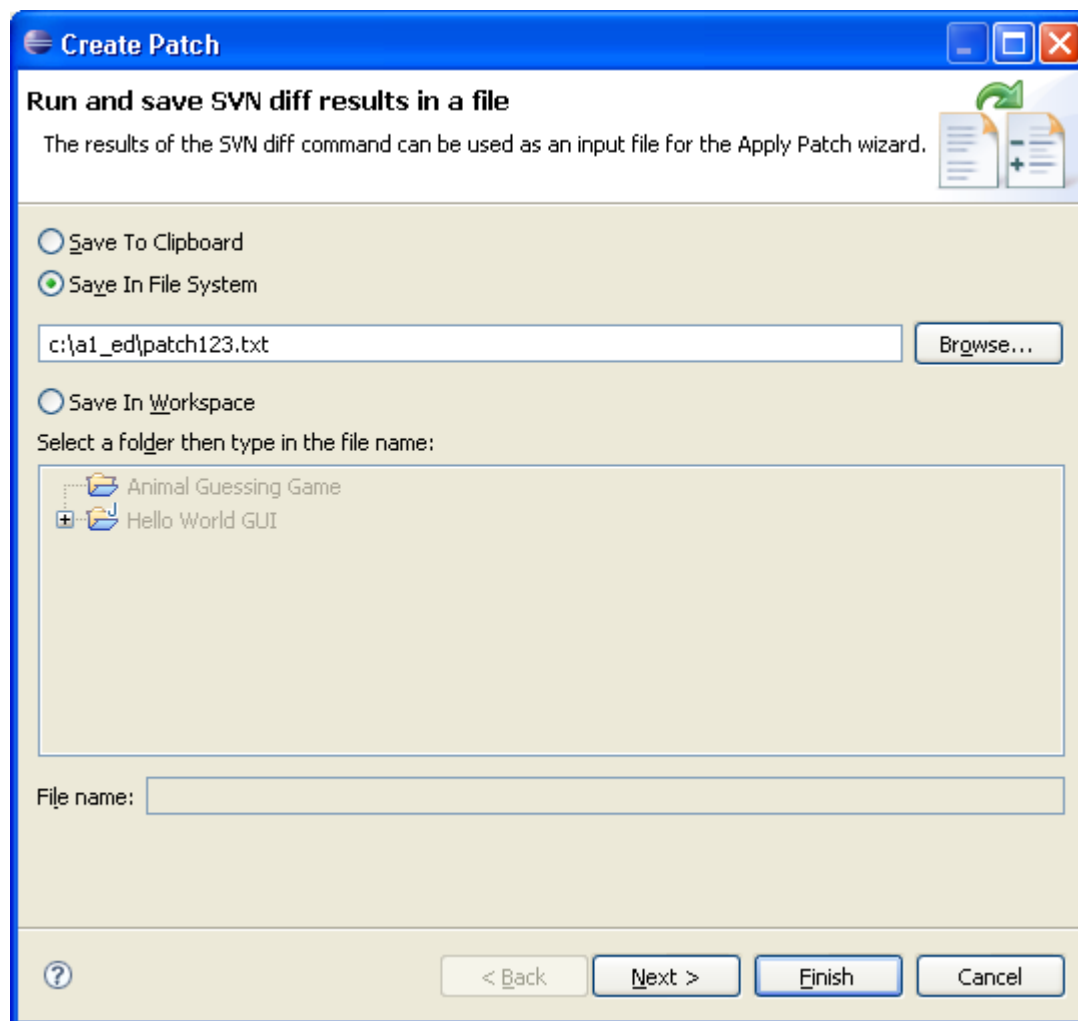
3. In the Create Patch dialog, choose a location for the patch file and a file name, then click **OK**.

#### Creating a patch file in Eclipse 3.3.1.1

1. Find the parent folder, sub-folder or file that you have altered, right-click it and choose **Team > Create Patch**.



2. In the Create Patch window, choose a location on your computer and type an appropriate file name (the file format is plain text):




#### Creating a patch file from the command line

Use the following commands to create patch files from the respective SCMs. `patch.txt` represents your name for the new patch file.

| SCM | Command  | Notes  |
|-----|--|--|
| CVS | <code>cvs diff -Nu &gt; patch.txt</code>         | Creates a patch file with around three lines of code, before and after each change.<br><br>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context. |
|     | <code>cvs diff -N -U 10000 &gt; patch.txt</code> | Creates a patch file that shows all code in the file.<br><br>10000 refers to the number of code lines before and after each change that are included in the patch.   |



|          |   |  |
|----------|---|--|
| SVN      | <code>svn diff &gt; patch.txt</code>  | <p>Creates a patch file with around three lines of code, before and after each change.</p> <p>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.</p> <p> <code>svn diff</code> does not print any information about files copied in the workspace.</p>   |
|          | <code>svn diff --diff-cmd diff -x "-U 10000" &gt; patch.txt</code>  | <p>Creates a patch file that shows all code in the file.</p> <ul style="list-style-type: none"> <li>• The built-in diff feature in <code>svn diff</code> does not support specifying lines of context, so you must tell Subversion to use an external diff command.</li> <li>• The second <code>diff</code> in the command needs to be the name of your external diff command. You might need to specify the full path to that command, such as <code>/usr/bin/diff</code>.</li> <li>• On the Windows platform, you may need a Unix-like emulator such as <a href="#">Cygwin</a>, and install the optional diff command for that.</li> </ul> |
| Perforce | <p>Crucible 3.3.1 or earlier: <code>p4 diff -dcu &gt; patch.txt</code></p> <p>Crucible 3.3.2 or later: <code>p4 diff -z tag &gt; patch.txt</code></p> | <p>Creates a patch file with around three lines of code, before and after each change.</p> <p>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.</p> <p>The <code>-dcu</code> option provides a combination of "context format" and "unified format". It provides the diff in a standard unified diff format (which we need to parse the diff) as well as revision information (which we need to anchor to FishEye). Later versions of Perforce do not support <code>-dcu</code>, so <code>-z tag</code> should be used instead.</p>                              |
|          |   |  |

|                  |   |   |
|------------------|---|---|
|                  | <pre>diff -u /dev/null path_to_added_file &gt;&gt; patch.txt</pre>  | <p>Example of using GNU <code>diff</code> to append files individually to the patch in UNIX.</p> <p>Since Perforce diffs do not include added and deleted files, you should use <code>p4 opened</code> to find such files.</p> <p>Replace <code>path_to_added_file</code> with the actual path of your added file. You can follow a similar procedure with deleted files using <code>p4 print</code> to extract the previous version of the file.</p> |
|                  | <p>⚠ Perforce does not directly support creating patches that include all lines of code. A workaround is to check out 'before' and 'after' versions of the file, and use GNU Diff to create a patch between the two files. That file could then be loaded into a Crucible review.</p> |   |
| <b>Mercurial</b> | <pre>hg diff &gt; patch.txt</pre>   | <p>Creates a patch file with around three lines of code, before and after each change.</p> <p>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.</p> <p>If you use Git-style diffs (<code>--git</code>), the revision information will not be provided. This means that we cannot anchor the patch to a FishEye repository.</p>  |
| <b>Git</b>       | <pre>git diff &gt; patch.txt</pre>  | <p>Creates a patch file with around three lines of code, before and after each change.</p> <p>Revision information is included by default, so if you have FishEye, you may be able to anchor the patch to get full context.</p>   |

### Using Crucible patch anchoring to automatically add full context

Crucible's Patch Anchoring feature allows you to add a regular patch (showing only a few lines of context) to a review. Then, Crucible will automatically search for the relevant file content in the connected repositories. When it finds the files, it will seamlessly add in more context from the files so that you can view all of the lines of code (greatly enhancing the review process).

#### To use patch anchoring:

1. Click **Create review** in the Crucible header.
2. Click **Pre-commit**. In the dialog that appears, click **Choose File** to locate your file, then **Upload**. Crucible will now search for matches in the files in its database. Crucible will analyse all the paths in the patch, find the branches containing all those paths, then anchor the patch to the trunk or the branch with the most recent commit activity.

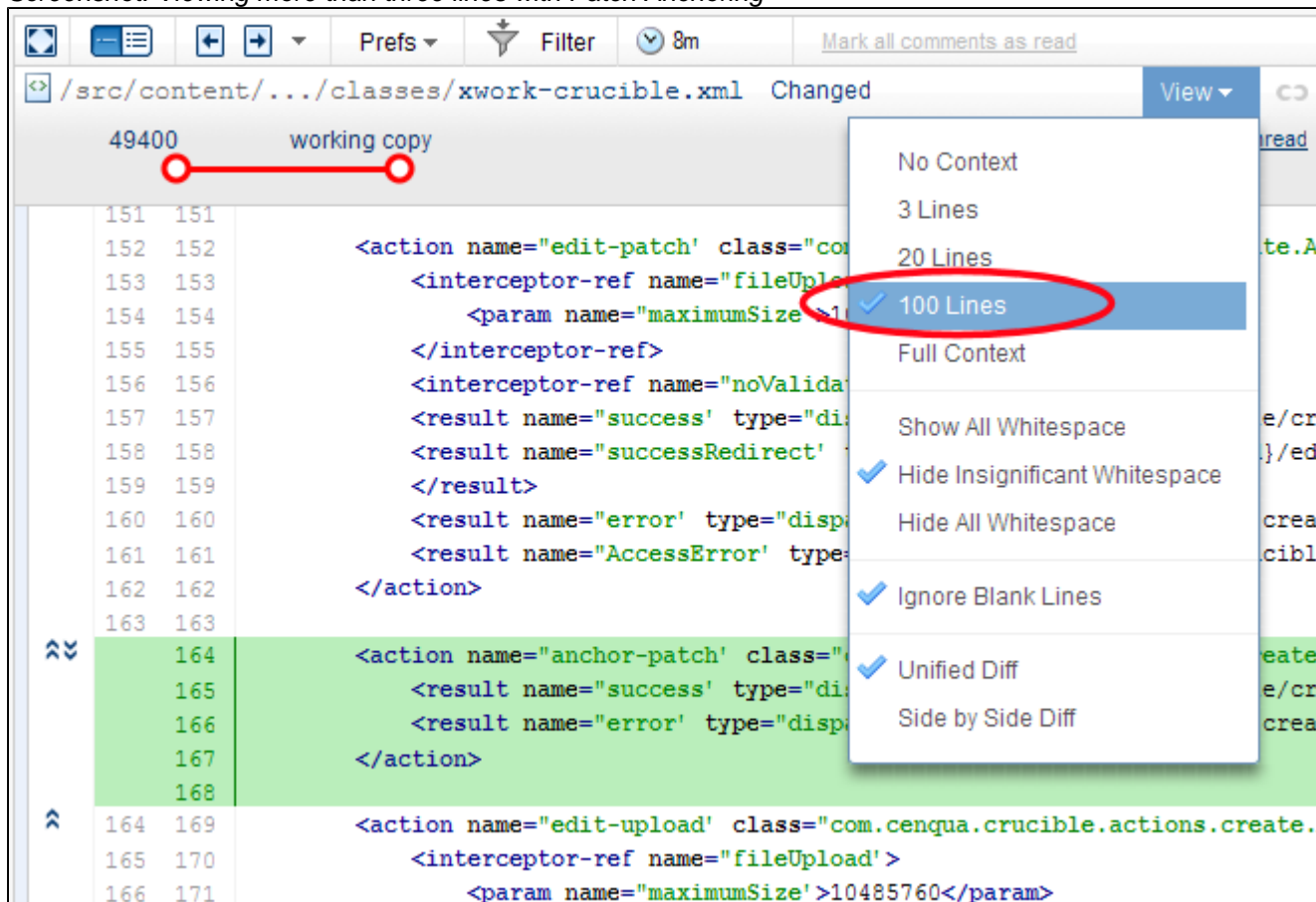
**i** Crucible makes a 'best guess' in its processing – you should check that it has anchored the patch to the correct location in your repository.

- Screenshot: Crucible Patch Anchoring

*Screenshot: Editing the settings for Patch Anchoring*

Created by Atlassian in 2014. Licensed under a [Creative Commons Attribution 2.5 Australia License](#).

Screenshot: Viewing more than three lines with Patch Anchoring



## Choosing reviewers

This page describes how to add reviewers (as a mix of individual users and groups) to a new review, after it has been created. See [Creating a review](#) for information about creating reviews.

Before a review can be started, you need to choose reviewers. To add reviewers you just click **Edit Details** for the review.

### Adding users to a review

You can choose reviewers from available Crucible users and groups by typing names into the **Reviewers** field. The users and groups that are available to be reviewers are determined by the project's settings for **Default Reviewers** – see [Creating a project](#).

You can also allow any Crucible user to add themselves as a reviewer by selecting **Allow anyone to join**.

### Edit Review Details CR-ANERDS-92

Project: CR-ANERDS

Title: [Click to add title](#)

Author: Paul Watson

Reviewers:  [Suggest reviewers...](#) ☐ Allow anyone to join

Objectives:

|                        |          |
|------------------------|----------|
| Abdoulaye Kindy Diallo | adiallo  |
| Abi Dzar               | adzar    |
| group accounts-payable | users    |
| group ace-team         | users    |
| ADM-17363              | adm17363 |
| group adm17363         | user     |
| Ahmad Faisal           | afaisal  |

Due Date:

Send Reminder:  working day before [\(remove\)](#)

Linked Review:  [Link](#)

Linked Issue:  [Link](#)

Click **Done** to save the review as a draft for later issue.

Click **Start Review** to begin the review immediately.

#### Suggested reviewers

Crucible will automatically suggest reviewers, by analysing the users that have contributed to the files you've selected and also don't have a lot of open reviews. You can easily pick reviewers from the list of suggestions by clicking.

#### Removing reviewers

You can remove reviewers who no longer need to contribute to the review.

Click **Edit Details** for the review, hover over the reviewer's name, and click the cross.

### Edit Review Details TEST-324

Project: TEST

Title: **[maven-release-plugin] prepare for next development**

Author: Paul Watson

Reviewers:  [Suggest reviewers...](#) ☒ Allow anyone to join

Nathan Pye

James Dumay

Objectives: Please ensure you add an acceptance test to your review comments

#### Checking the draft and starting the review

The draft review opens. In the draft stage, the author can check the contents of the review files to ensure they are correct and put in any notes for reviewers as comments. During the draft phase, no notification email is sent out to reviewers. Once the author is finished with the draft phase, they click **Start Review**.

The review will now be started and notification email will go out to all participants. Crucible will now send out an email notification to all the participants. This lets them know that the review is under way and prompts them to

take action, providing a URL for direct access to the review. (You can also [subscribe to an RSS feed](#).)

### Next steps

You can now begin [Performing the review](#).

If you have a moderator controlling your review process, you can move onto [Starting a review](#).

## Performing the review

This page describes how to find and manage the Crucible reviews that relate to you.

On this page:

- [Browse your reviews on the Dashboard](#)
- [Browse all reviews on the 'Reviews' tab](#)
- [When files change during a review](#)
- [Next steps](#)



### Deciding what needs to be reviewed

The 'Statement of Objective' is a brief description of what the review is intended to achieve. Crucible does not dictate how or what to review. It simply provides a mechanism to record comments.

### Browse your reviews on the Dashboard

When you first start Crucible, the Dashboard is displayed, which shows your current reviews and other activity related to you.

Use the Dashboard to manage your reviews. Read the overview on [filtering your view](#).

Active reviews are listed on each [reviewer's](#) dashboard under the default **To Review** filter. Reviews are listed under **Out for Review** until all reviewers indicate they are complete. The reviews then move to the **To Summarize** list.

Read more about using the [Dashboard](#).

### Browse all reviews on the 'Reviews' tab

All reviews that involve you in any role are listed when you click **Inbox** or **Outbox** under the **Reviews** menu. For example, choose **Reviews** > **Inbox** to see reviews that don't require further action from you, but are still active.

If email notifications are enabled (see [SMTP settings](#) in the FishEye documentation), reviewers will receive an email with information about the review. Click the link within the email to go directly to the review.

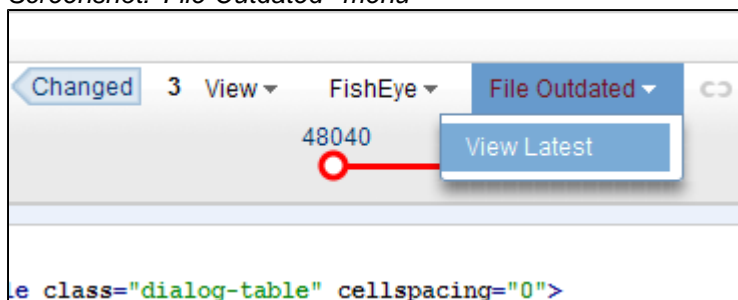
### When files change during a review

If a file in the repository changes during a review, Crucible will visually alert you by showing the **File Outdated** menu, when viewing the file:



From the **File Outdated** menu, you can choose to view the latest revision of the updated file, or add the latest revision to the review:

Screenshot: 'File Outdated' menu

**Next steps**

- Starting a review
- Adding comments
- Changeset discussions
- Flagging defects
- Creating JIRA issues from the review
- Viewing reports
- Completing your review
- Using the Review History Dialog
- Using RSS feeds in Crucible
- Using Wiki Markup in Crucible
- Tracking Crucible Review Metrics

**Starting a review**

On this page:

- Starting a review
- Editing a review once started

**Starting a review**

Starting a review simply means formally starting it and inviting people to take part.

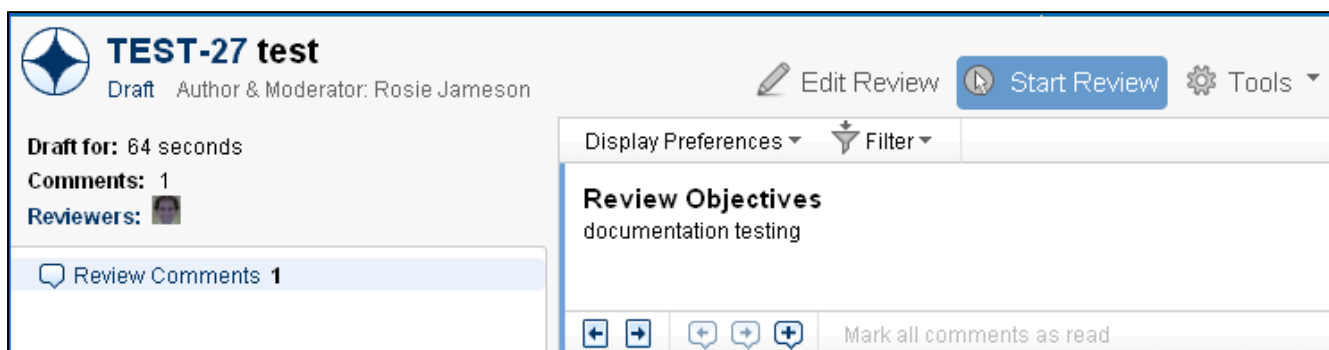
Once you have [selected the reviewers](#), the next stage is to notify the [reviewers](#) and the [author](#) (if different to the [moderator](#)) that they can start reviewing. The review has been in 'Draft' [state](#) until this point. Only the moderator has the permission to start a review.

To start the review:

- If you are the moderator of the review, click **Start Review**.
- If you are not the moderator of your review, click **Send to Moderator**. This changes the [state](#) to 'Requires Approval' and notifies the moderator. The moderator can change any aspect of the review before starting it.

Once the review has been started, the review [state](#) becomes 'Under Review'.

Screenshot: Starting a Review



**i** Note that only people with the 'Approve' [permission](#) can start a review.



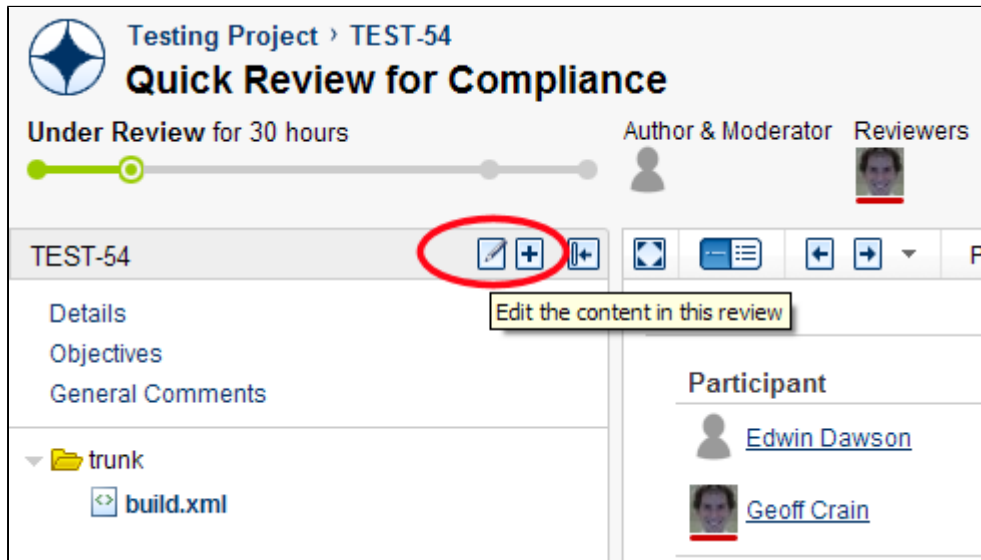
### Editing a review once started

You can quickly add files to, or remove files from, the content of a review at any time:

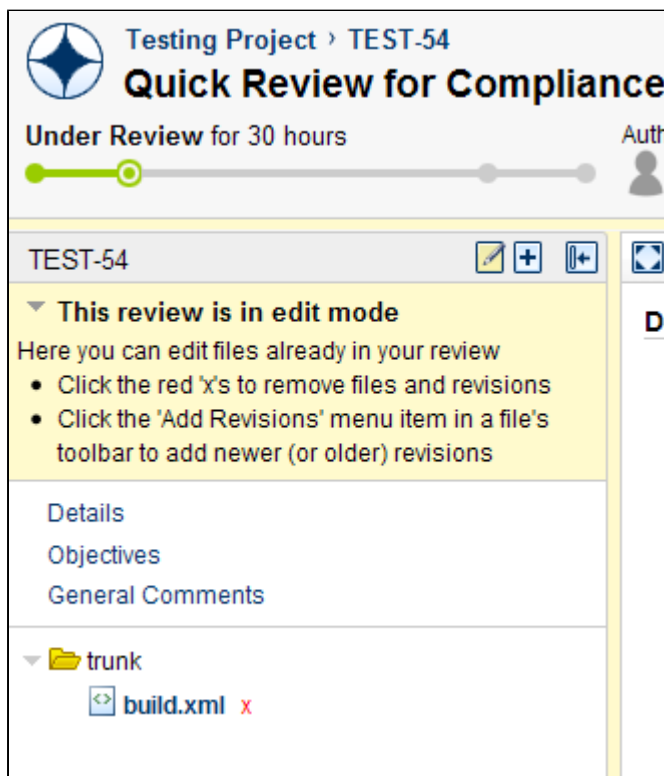
- Add files to a review by clicking the 'Add content' button.
- Remove files by clicking the 'Edit' button in the left navigation panel, then clicking the red cross icons beside files to be removed.

You can edit all the details of a review, including the content, by clicking **Edit Details** near the top right of the review.

Screenshot: Launching Edit Mode



Screenshot: Crucible Edit Mode for Review Content



### Adding comments

Comments can be added at the level of a review, revision, or line. You can also reply to a comment.

On this page:



- Locating existing comments
- Adding comments
- Draft comments

### Locating existing comments

The number beside a filename, in the left-hand panel of a review, indicates the number of comments on that file. (The number of unread comments, if any, is shown in brackets.)

### Screenshot: Comments

**CR-CLOV-136 Test Review for Documentation**  
Under Review Author & Moderator: Edwin Dawson Edit Review Summarize Tools

Under Review for: 45 days  
Overdue: 52 days  
Comments: 4  
Reviewers: [Icons]

Review Comments

- trunk
  - core/src/com/cenqua/clover
    - BranchInfo.java
    - ClassInfo.java
    - ElementInfo.java 4
    - MethodInfo.java
    - StatementInfo.java
  - idea7/src/com/cenqua/clover
    - IdeaTestFilter.java
  - src/tutorial
    - build.xml

**ElementInfo.java** MODIFIED

Revisions: 32288 35536 36696  
Comments: 4 4 0 Edit Revisions

File View FishEye File Outdated

/trunk/core/src/com/cenqua/clover/registry/ElementInfo.java

```

4 4 import com.cenqua.clover.context.ContextSet;
5 5 import com.cenqua.clover.context.NamedContext;
6 6
7 - public abstract class ElementInfo extends SourceRegion implements
8 - private ContextSet context;
9 - private int relativeDataIndex;

```

**Edwin Dawson says:** 13 May  
What is this relative to?  
Reply Edit Delete Add Favourite

**Geoff Crain says:** 13 May  
the speed of light  
Leave Unread

```

10 - private int dataLength = 1; // by default an element occupies
11 - private int complexity;

```

**Edwin Dawson says:** 13 May  
Is this variable name sensible?  
Reply Edit Delete Add Favourite

**Geoff Crain says:** 13 May  
i think so - may not be complex enough, though  
Leave Unread

```

7 + import java.io.Serializable;
12 8
13 - public ElementInfo(
14 -     BaseFileInfo containingFile, int relativeDataIndex, Co
15 -     SourceRegion region, int complexity) {
16 -     super(containingFile, region);
17 -     this.relativeDataIndex = relativeDataIndex;
9 + public abstract class ElementInfo<T extends SharedElementInfo>
10 +     protected BaseFileInfo containingFile;
11 +     protected ContextSet context;

```


### Adding comments

There are various types of comments that you can add in Crucible:

| To comment on... | Do this... |  |
|------------------|------------|--|
|------------------|------------|--|

|                            |   |   |
|----------------------------|---|---|
| The whole review           | Click <b>General Comments</b> (in the left-hand panel), then <b>Add a general comment</b> (under 'General Comments').   |  |
| A source file under review | Click on the file in the left-hand panel, then click <b>Add a file comment</b> (just above the source code listing).  |  |
| Lines of code              | <p>Click on a line of code in the displayed source file of a review.</p> <ul style="list-style-type: none"> <li>You can click and drag to select multiple lines, and click individual lines to select or deselect them. The comment will appear in the source at the last line selected.</li> <li>Hover over the comment to see the lines to which the comment applies.</li> <li>To select text on the page without adding a comment, hold down the Alt key while dragging the cursor.</li> </ul> |  |
| A revision or changeset    | See <a href="#">Changeset discussions</a> .   |   |

To reply to a comment, click **Reply** at the bottom of the comment.

 Only people with the '[Comment](#)' permission can add comments. A comment can only be deleted by the author of the comment.


 Read about [flagging defects](#) too.

#### Draft comments

You can save your comment as a draft and then edit it later. When you [complete the review](#), you will be prompted to post, discard or edit any remaining draft comments.


### Changeset discussions


When using Crucible with FishEye, you can have threaded discussions with other users, on any changeset. To start a discussion, you simply start by adding a comment to a changeset.



 You need to be logged in to create changeset comments.

#### Adding comments to changesets

##### To add a comment to a changeset:

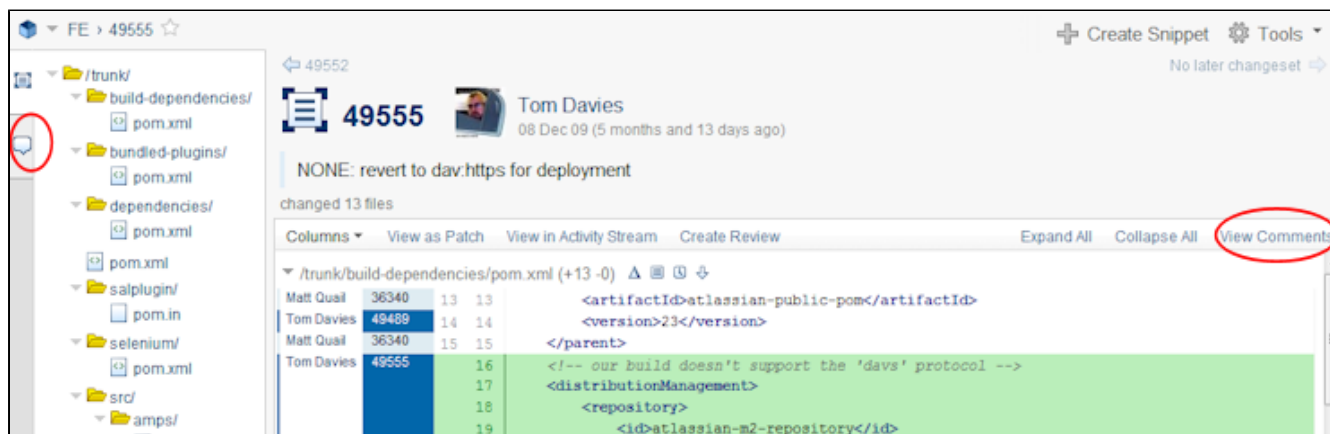
- Click on a changeset on the **Commits** tab for the repository. Display comments by clicking **Discuss** at the upper right corner, or the speech bubble icon  in the left margin.
- Click **Add a comment** (under the repository details near the top left).
- Type your comment. If required, you can tag your comment as being a defect note by clicking **Defect**.
- Click **Post**.

Once submitted, others can respond to your comment by clicking **Reply**. Replies are threaded as separate comment discussions. You can right-click on the permalink icon  to copy a link to the comment. The comment author can edit or delete their own comments.

To hide the changeset comments, click the page icon . You can display the comments panel by clicking the speech bubble icon  again.

As you compose a comment, it will auto-save periodically.

*Screenshot: Opening Changeset Discussions*



### Turning changeset discussions on and off

You can turn off changeset discussions in the Admin area:

1. In the Admin area, click **Repositories** (under 'Repository Settings' on the left).
2. Find your repository and choose **View** from the 'cog' menu in the Actions column.
3. Click **Other Settings** in the left panel.
4. Under 'Changeset Discussions' clear the **Allow changeset discussions** checkbox.

By default, changeset discussions are on.

### Notifications

- Comments show up in the activity stream,
- The author of the changeset will get email notifications when comments are added,
- Comment authors will get email notifications when someone replies to their comments.

### Flagging defects


**Comments** in Crucible can be used to flag a defect in the code under review.

To do this, simply check **Defect** when adding a comment and select a category from the drop-down list.

*Screenshot: Defects*

Is this variable name sensible?

☒ Defect
 Minor
Select Requires Re-Review
Select Classification
Post
Cancel


**Geoff Crain says:**  
 i think so - may not be complex enough, though  
[Leave Unread](#)

13 May

```

7 + import java.io.Serializable;
12 8
13 - public ElementInfo{
14 -     BaseFileInfo containingFile, int re
15 -     SourceRegion region, int complexity,
    
```

context,

Select Classification  
 Missing  
 Extra (superfluous)  
 Ambiguous  
 Inconsistent  
 Improvement desirable  
 Not conforming to standards  
 Risk-prone  
 Factually incorrect  
 Not implementable  
 Editorial

You may want to mark comments as defects in order to associate defect classifications, or simply to highlight to the [author](#) or [moderator](#) that the issue you raised in your comment requires attention. You can use the **with defects** filter to find files that have been flagged with defects.

**i** Crucible intentionally does not mandate how defects are to be used. The Crucible administrator can [customize the defect classifications](#).

**i** You can only use the defect classifications on comments that are not a reply to an existing comment.

### Creating JIRA issues from the review

From any [review comment](#) (general, file, inline) in Crucible, you can create a JIRA issue directly from the comment. This requires that Crucible is [integrated with JIRA](#), version 5.0 or later, and is disabled if you have an earlier version of JIRA.

Inline issue creation allows:

- Tracking of the status of the comment
- A faster way to pull out incidental suggestions raised in reviews as JIRA issues
- A quick link back to the comment from the JIRA issue, using Remote Issue Links.

You might find this useful when:

1. Tracking the status of a review:
  - a. The 'Issues Raised from Comments' section in the review shows the open/closed status of related issues.
  - b. Raising related issues enforces dealing with subtasks before the review can be closed.
2. Closing off a review:
  - a. You can create JIRA issues, unrelated to the current review, to track matters to be dealt with later.

### Creating a JIRA issue

To create a JIRA issue from a review, click **Create Issue** in an existing comment. Note that you need the 'Comment' [permission](#) in Crucible to see the **Create Issue** link.

## General Comments

**General Comments**

**Paul Watson says:**  
The title of the target page for the help link should be "Setting the REST API token"  
This is it: <https://confluence.atlassian.com/display/FISHEYE/Setting+the+REST+API+token>  
[Reply](#) [Edit](#) [Delete](#) [+1](#) [Create Issue](#)

**Lukasz Pater says:**  
Done, linked <https://confluence.atlassian.com/display/FISHEYE/Configuring+Commit+Hooks> from the update  
[Reply](#) [Leave Unread](#) [+1](#) [Create Issue](#)

[Add a general comment.](#)

Crucible suggests a JIRA instance, project and issue type, but you can choose from the available options. You can choose **Sub-task** from the **JIRA Issue Type** list if a JIRA issue is already [linked to the review](#).

Crucible only displays required fields for the issue type; these can be [configured in JIRA](#) by your administrator.

**Create issue**

JIRA Project\* [FishEye Crucible Development](#)

JIRA Issue Type\* [Bug](#)

Summary\* [The title of the target page for the he](#)

Description [The title of the target page for the help link should be "Setting the REST API token" This is it: https://confluence.atlassian.com/display/FISHEYE/Setting+the+REST+API+token](#)

Once the issue is created, the comment displays a link to the issue in JIRA, and in JIRA, the issue displays a link back to the comment in Crucible. The 'Issues raised from comments' section of the review displays links to the JIRA issues.

See [Creating a review from JIRA](#).

## Viewing reports

This page describes how to use the Reports tab in Crucible to see lists of people whose action is required on open reviews. These are known as 'blockers'.

### On this page:

- [Viewing the Review Blockers report](#)
- [Viewing the JIRA Blockers report](#)

### See also:

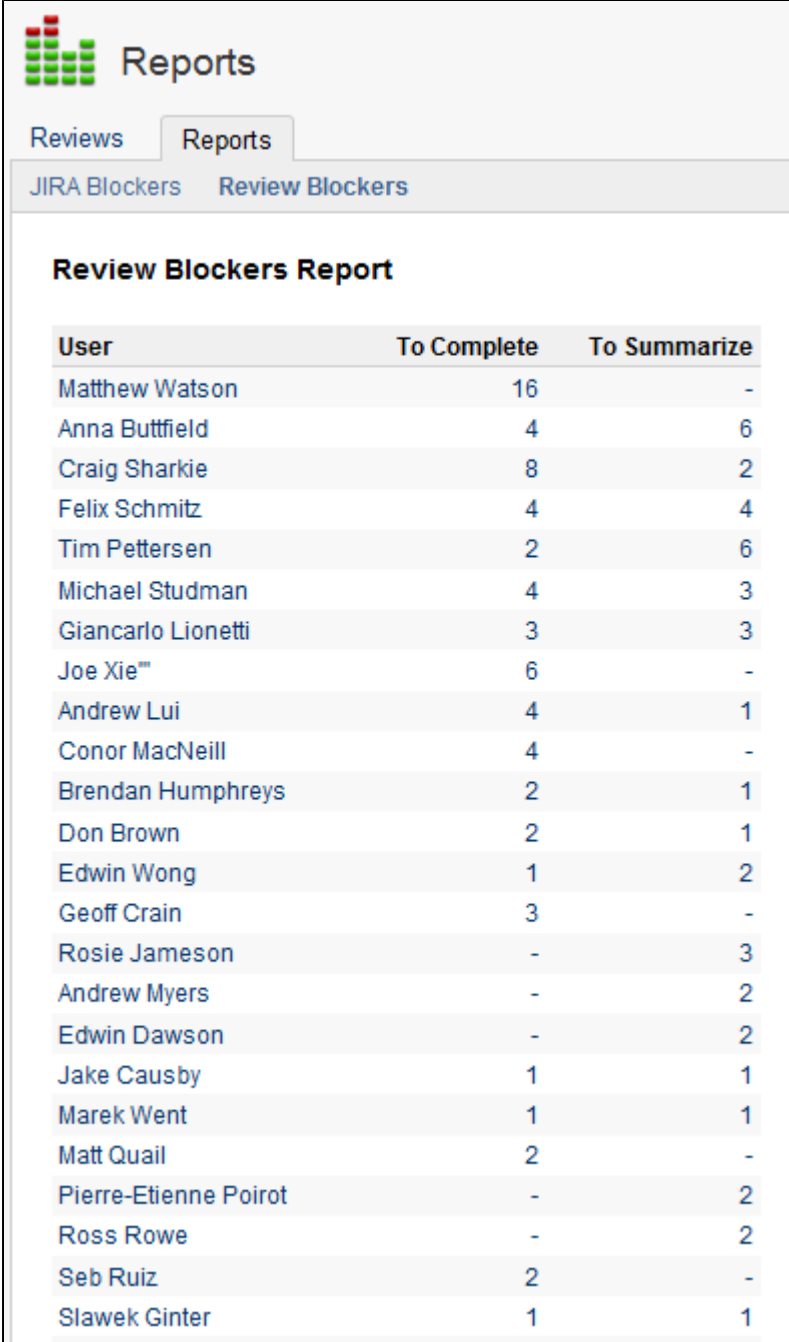
- [Viewing the Review Coverage report](#)

### Viewing the Review Blockers report

To view a list of people who have open reviews assigned to them:

1. Click the dropdown arrow next to the **Reviews** tab at the top of the page and select **Reports**.
2. Click **Review Blockers** (under the 'Reports' sub-tab).
  - Click a user's name to go to their ['Activity' screen](#).
  - Click a number in the 'To Complete' or 'To Summarize' column to go to a list of reviews for that user.

Screenshot: 'Review Blockers' Report



| User                  | To Complete | To Summarize |
|-----------------------|-------------|--------------|
| Matthew Watson        | 16          | -            |
| Anna Buttfeld         | 4           | 6            |
| Craig Sharkie         | 8           | 2            |
| Felix Schmitz         | 4           | 4            |
| Tim Pettersen         | 2           | 6            |
| Michael Studman       | 4           | 3            |
| Giancarlo Lionetti    | 3           | 3            |
| Joe Xie™              | 6           | -            |
| Andrew Lui            | 4           | 1            |
| Conor MacNeill        | 4           | -            |
| Brendan Humphreys     | 2           | 1            |
| Don Brown             | 2           | 1            |
| Edwin Wong            | 1           | 2            |
| Geoff Crain           | 3           | -            |
| Rosie Jameson         | -           | 3            |
| Andrew Myers          | -           | 2            |
| Edwin Dawson          | -           | 2            |
| Jake Causby           | 1           | 1            |
| Marek Went            | 1           | 1            |
| Matt Quail            | 2           | -            |
| Pierre-Etienne Poirot | -           | 2            |
| Ross Rowe             | -           | 2            |
| Seb Ruiz              | 2           | -            |
| Slawek Ginter         | 1           | 1            |

#### Viewing the JIRA Blockers report

The 'JIRA Blockers' report shows you a list of users whose action is required on open reviews, for a particular set of JIRA issues. The reviews must be [explicitly linked to a JIRA issue](#) or mention a JIRA issue key in the summary or the objectives.


To view the 'JIRA Blockers' report:

1. Click the dropdown arrow next to the **Reviews** tab at the top of the page and select **Reports**.
2. Click **JIRA Blockers** (under the 'Reports' sub-tab).
3. Enter details for your JIRA server and project, and click **Go**.

The 'JIRA Blockers' report displays the following information:

- A list of JIRA issues for which one or more Crucible reviewers has not completed their review.
- A list of users who have an incomplete Crucible review that relates to a JIRA issue.
- A list of open JIRA issues for which a Crucible review is closed, and vice versa.

Screenshot: 'JIRA Blockers' Report



## Reports

[Reviews](#)
[Reports](#)

[JIRA Blockers](#)
[Review Blockers](#)

### JIRA Blockers Report

Select the JIRA instance to retrieve data from








JIRA project key   
The key for the project you want to find review-blocked JIRA issues from.

JIRA project's version   
The version for your selected project that you wish to find issues from.

JIRA "Under Review" workflow step:   
The name of the workflow step from your JIRA instance that indicates an issue is under review.

| Issue   | Review     | Incomplete                                  |
|---------|------------|---|
| FE-1073 | CR-FE-3635 | Conor MacNeill                              |
| FE-2656 | CR-FE-3644 | Conor MacNeill<br>Tim Pettersen             |
| FE-2665 | CR-FE-3839 | Joe Xie"<br>Michael Heemskerk<br>Tom Davies |

| Reviewer          | Incomplete reviews |
|-------------------|--------------------|
| Conor MacNeill    | 2                  |
| Joe Xie"          | 1                  |
| Michael Heemskerk | 1                  |
| Tim Pettersen     | 1                  |
| Tom Davies        | 1                  |

| Issue   | Severity  | Problem  | ? |
|---------|---|--|---|
| FE-2656 |  | Issue resolved, reviews are still open                   |   |
| FE-2751 |  | Issue unresolved, reviews are closed                     |   |
| FE-2751 |  | Issue unresolved, reviews are completed by all reviewers |   |
| FE-2702 |  | Issue unresolved, reviews are closed                     |   |
| FE-2702 |  | Issue unresolved, reviews are completed by all reviewers |   |
| FE-2504 |  | Issue unresolved, reviews are closed                     |   |
| FE-2504 |  | Issue unresolved, reviews are                            |   |

### Review Coverage report

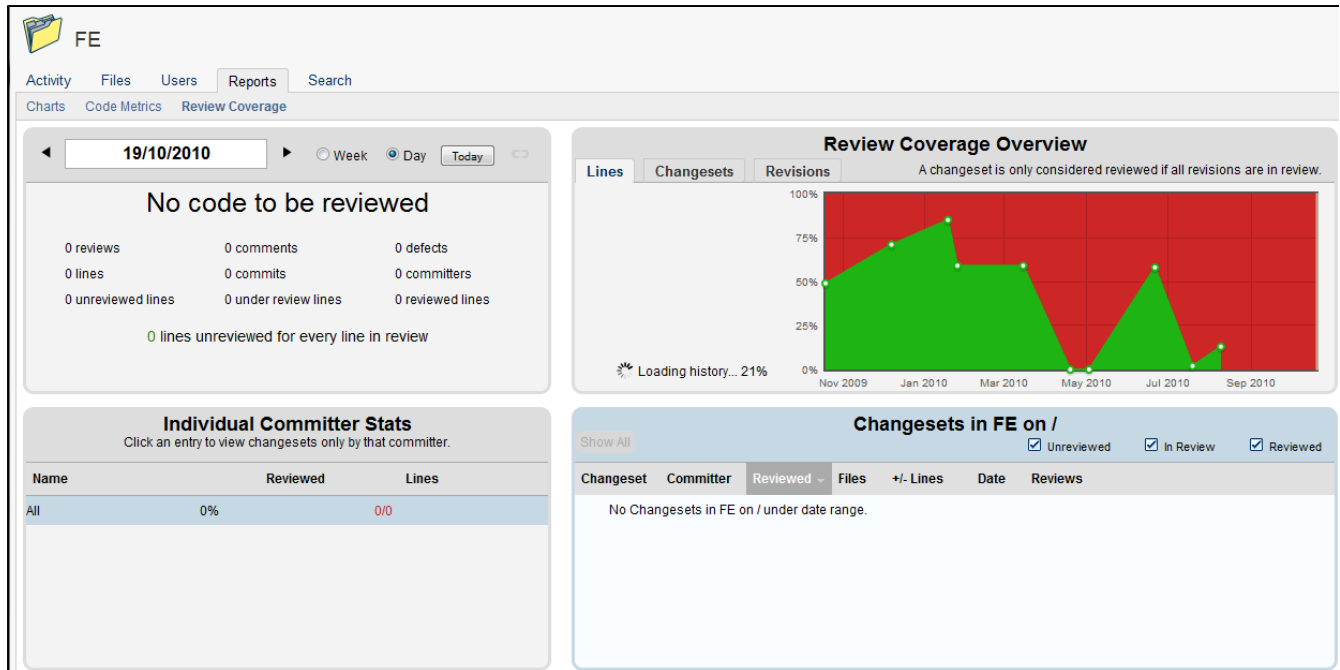
Crucible has useful reports that show you detailed statistics on review activity. The Review Coverage report allows you to see how much of the code, and which files, in your repository have been reviewed, and when. You can also access the reviews.

 This feature requires **FishEye integrated with Crucible**.

#### On this page:

- [Opening the Review Coverage report](#)
- [Using the Summary Panel](#)
- [Using the Review Coverage Overview](#)
- [Using the Individual Committer Stats panel](#)
- [Using the Changesets panel](#)

Screenshot: The Review Coverage report



### Opening the Review Coverage report

To open the Review Coverage report:

1. Click **Repositories** and choose a repository. The repository you chose sets the scope for the report.
2. If desired, navigate down the tree (in the lefthand panel) and click the desired path you want to view coverage on.
3. Click **Reports** in the secondary toolbar.
4. Click **Review Coverage** from the list of reports in the upper panel.

**i** You can view coverage of any path by navigating down the tree to the desired path you want to view coverage on, before clicking on the **Reports** tab.

### Using the Summary Panel

The summary panel displays the following metrics for your selected repository:

- Overall review coverage percentage.
- Change in review coverage percentage since the last reporting period.
- Total number of reviews.
- Total number of comments.
- Total number of reported defects.
- Total number of Lines of Code (LOC).
- Total number of commits.
- Total number of committers.
- Total number of unreviewed lines.
- Total number of lines under review.
- Total number of reviewed lines.
- A ratio of the number of lines unreviewed against reviewed Lines of Code (LOC).

*Screenshot: Summary Panel in the Review Coverage report*



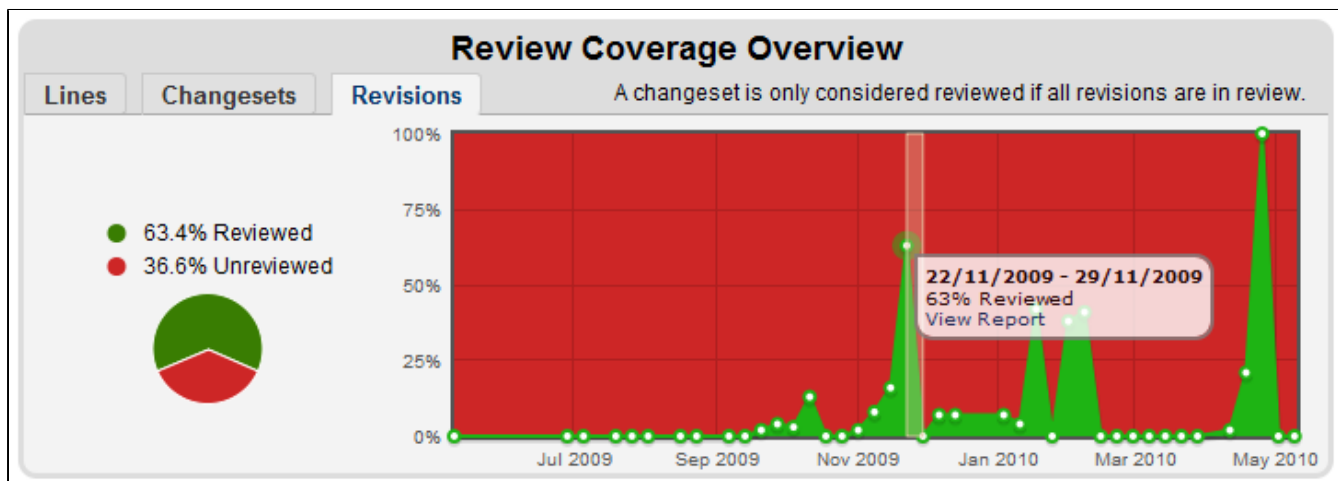


### Using the Review Coverage Overview

The Review Coverage Overview shows a timeline of reviews, compared against their percentage of coverage. Hover your mouse cursor over the data points on the graph to see granular information and click through to a detailed weekly report.

You can click the tabs to view the coverage expressed as a percentage of lines of code, changesets or revisions.

*Screenshot: Overview Panel in the Review Coverage report*



### Using the Individual Committer Stats panel

The Individual Committer Stats panel lets you choose a user from your Crucible instance and see all the changesets by that committer.

*Screenshot: Individual Committer Statistics in the Review Coverage report*

| Individual Committer Stats                                |            |          |             |
|---|------------|----------|-------------|
| Click an entry to view changesets only by that committer. |            |          |             |
| Rank ▲  | Name       | Reviewed | Lines       |
| 1st   | mwatson    | 100%     | 84/84       |
| 2nd   | alyons     | 100%     | 67/67       |
| 3rd   | amyers     | 100%     | 2/2         |
| 4th   | sruiz      | 97%      | 1,140/1,178 |
| 5th   | nvenegas   | 82%      | 266/326     |
| 6th   | ahempel    | 61%      | 94/155      |
| 7th   | csharkie   | 91%      | 664/731     |
| 8th   | mquail     | 0%       | 0/154       |
| 9th   | abuttfield | 79%      | 659/833     |
| 10th  | cmacneill  | 1%       | 2/187       |
| 11th  | gcrain     | 58%      | 408/706     |
| 12th  | tdavies    | 26%      | 306/1,182   |
| All   |            | 66%      | 3,692/5,605 |

### Using the Changesets panel

The Changesets panel lets you see changesets from your Crucible instance (for the time period of the report), and their level of review coverage. This information can be sorted by the columns in this view and uses colour coding to denote review coverage (listed in the table below).

### Colour Key

| Colour      | State        |
|-------------|--------------|
| dark green  | reviewed     |
| light green | in review    |
| red         | not reviewed |

Screenshot: Changesets panel in the Review Coverage report

| Changesets in FE on /trunk |            |   |       |             |       |              |
|----------------------------|------------|---|-------|-------------|-------|--------------|
| Show All                   |            | <input checked="" type="checkbox"/> Unreviewed <input checked="" type="checkbox"/> In Review <input checked="" type="checkbox"/> Reviewed |       |             |       |              |
| Changeset                  | Committer  | Reviewed  | Files | +/- Lines   | Date  | Reviews      |
| ▶ 54106                    | tdavies    | <div><div></div></div>  | 16    | +297 / -308 | 1 Feb |              |
| ▶ 54110                    | sruiz      | <div><div></div></div>  | 12    | +387 / -106 | 1 Feb | ⊕ CR-FE-3071 |
| ▶ 54199                    | csharki... | <div><div></div></div>  | 5     | +192 / -161 | 2 Feb | ⊕ CR-FE-3082 |
| ▶ 54249                    | sruiz      | <div><div></div></div>  | 6     | +134 / -136 | 2 Feb | ⊕ CR-FE-3071 |
| ▶ 54322                    | csharki... | <div><div></div></div>  | 6     | +174 / -68  | 3 Feb | ⊕ CR-FE-3082 |
| ▶ 54228                    | nvenega... | <div><div></div></div>  | 8     | +73 / -82   | 2 Feb | ⊕ CR-FE-3090 |
| ▶ 54155                    | mquail     | <div><div></div></div>  | 2     | +151 / -1   | 1 Feb |              |
| ▶ 54555                    | abuttfi... | <div><div></div></div>  | 6     | +83 / -63   | 5 Feb | ⊕ CR-FE-3073 |
| ▶ 54390                    | gcrain     | <div><div></div></div>  | 3     | +72 / -73   | 4 Feb | ⊕ CR-FE-3099 |
| ▶ 54125                    | abuttfi... | <div><div></div></div>  | 9     | +77 / -62   | 1 Feb | ⊕ CR-FE-3054 |
| ▶ 54321                    | tdavies    | <div><div></div></div>  | 12    | +79 / -59   | 3 Feb | ⊕ CR-FE-3079 |
| ▶ 54244                    | cmacnei... | <div><div></div></div>  | 1     | +67 / -67   | 2 Feb |              |
| ▶ 54307                    | abuttfi... | <div><div></div></div>  | 3     | +63 / -71   | 3 Feb | ⊕ CR-FE-3095 |
| ▶ 54191                    | gcrain     | <div><div></div></div>  | 4     | +86 / -46   | 2 Feb |              |
| ▶ 54330                    | sruiz      | <div><div></div></div>  | 3     | +71 / -50   | 3 Feb | ⊕ CR-FE-3096 |
| ▶ 54159                    | tdavies    | <div><div></div></div>  | 15    | +89 / -25   | 1 Feb | ⊕ CR-FE-3079 |

## Completing your review

Once each [reviewer](#) has added [comments](#) to the review and has nothing further to add, the next step is for them to complete their individual review.

To complete your individual review, go to the review and click **Complete** at the top of the screen, next to the **Tools** menu:



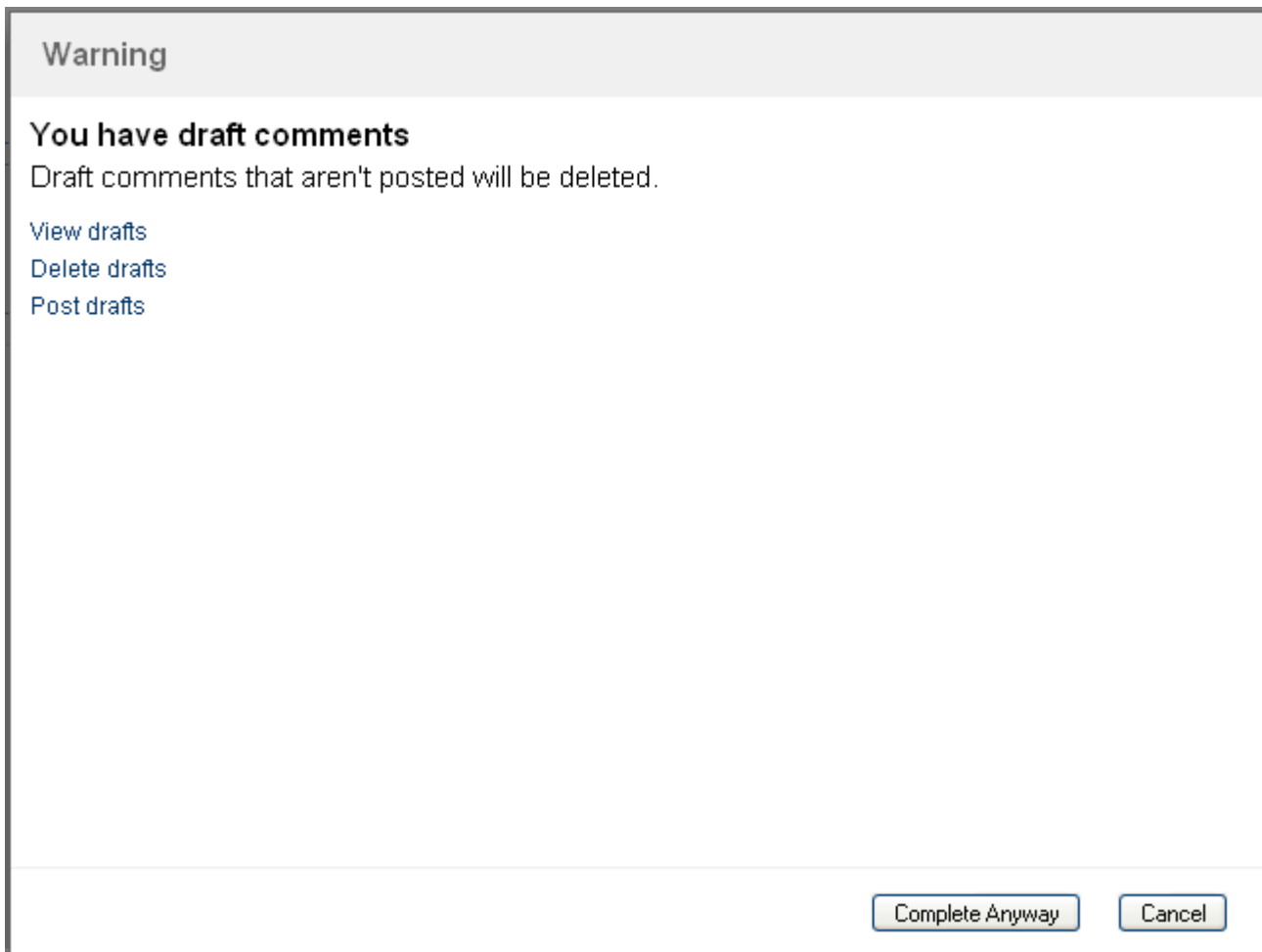
**i** Only people with the 'Complete' permission can complete a review.

This notifies the [moderator](#) (via email if configured) that you have completed your review.

Reviewers can still continue to add comments until the moderator [summarises](#) the review. The moderator does **not** have to wait for all reviewers to complete their individual reviews before summarising.

If you have any draft [comments](#), you will be prompted to post/discard/edit any comments before completing the review.


*Screenshot: Draft comments*




Screenshot: Review complete



### Review Complete

**You have marked TEST-27 as completed.**  
The following reviewer is not yet finished:

 [Geoff Crain](#)

You can continue to add new comments and reply to comments until the moderator ( [Rosie Jameson](#)) summarizes the review.

Reviews requiring your attention:

| Task      | Review                     | Owner   | Due    |
|-----------|----------------------------|---|--------|
| Review    | <a href="#">CR-FE-2170</a> |  | 03 Jul |
| Summarize | <a href="#">TEST-11</a>    |  | -      |

[Dashboard](#) [Close](#)

## Using the Review History Dialog

The Review History dialog shows a chronological list of interactions within a review. You can see rich information about those interactions and control their display. You can sort the information by date, actor, or action.

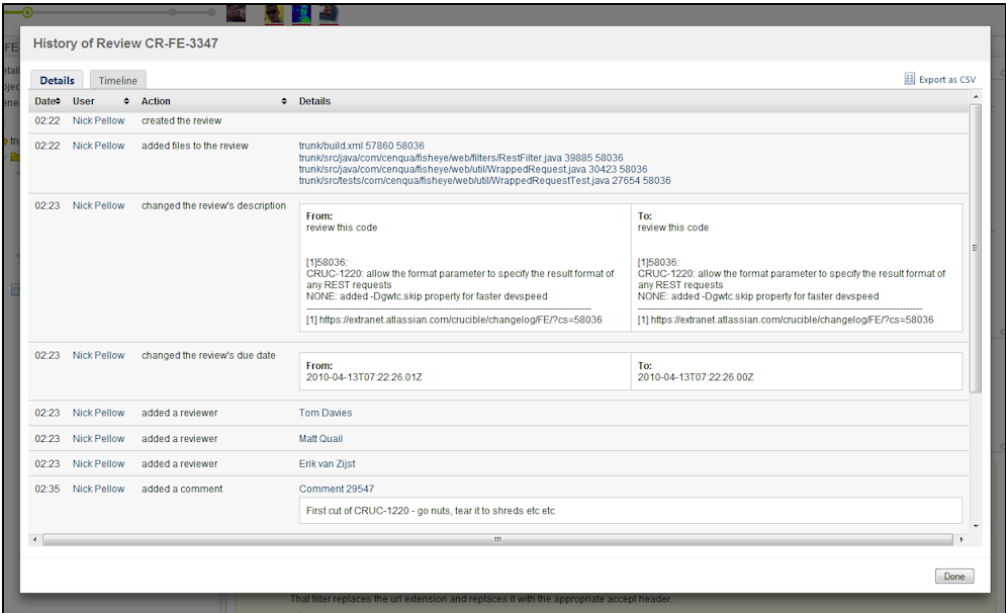
### To open the Review History dialog:

1. Open a review in Crucible.
2. Choose **Tools > View Review History** from the top right of the screen.

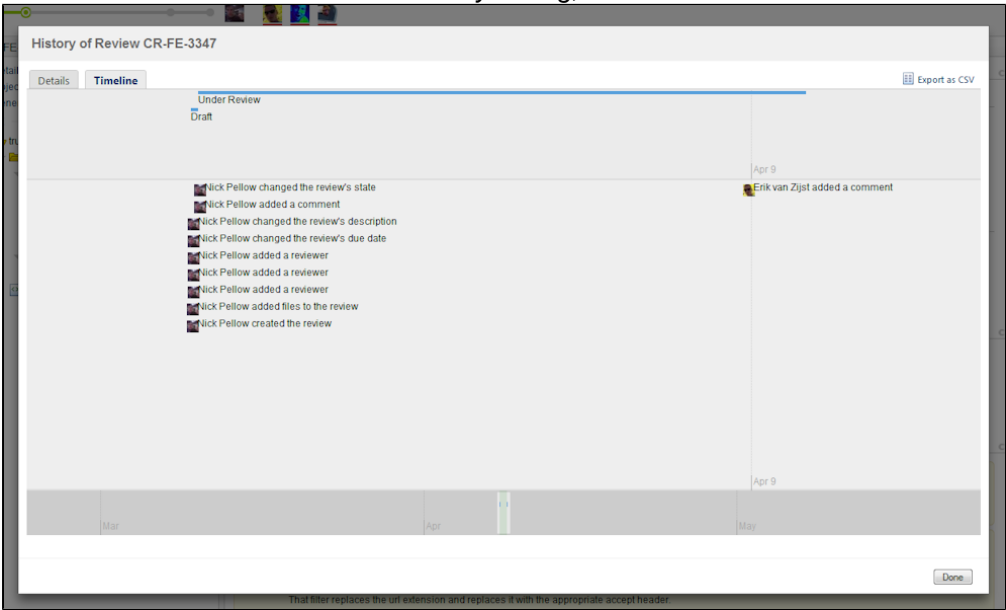
Click the **Timeline** tab at the top of the History dialog to see the review's events in a horizontal calendar. You can drag the calendar and the timeline at the bottom to scroll to other events.

Click **Export as CSV** near the top right to export the entire review history, allowing for easy data import into a spreadsheet or other application.

*Screenshot: The Crucible Review History dialog*




Screenshot: The Crucible Review History Dialog, Timeline View



Using RSS feeds in Crucible

Subscribing to an RSS feed

In Crucible, all pages with an activity stream, and any page that has a list of reviews, will have an RSS option. Right-click the RSS icon  and choose **Copy Link Address** to get the URL that you can paste into your RSS reader of choice.

Click the RSS icon  to see a page with the RSS feed displayed.

Using Wiki Markup in Crucible

Crucible supports Wiki Markup text formatting in comments and review descriptions. The text markup notation on this page is a reference showing the available formatting commands.

 When using FishEye, you can also render [Wiki Markup in commit messages](#).

Headings

| Notation | Description |
|----------|-------------|
|----------|-------------|

|                     |   |
|---------------------|---|
| h1.Biggest heading  | Turns text into a heading at size 1.<br><b>Biggest Text</b>         |
| h2.Bigger heading   | Turns text into a heading at size 2.<br><b>Bigger heading</b>       |
| h3.Big heading      | Turns text into a heading at size 3.<br><b><i>Big heading</i></b>   |
| h4.Normal heading   | Turns text into a heading at size 4.<br><b>Normal heading</b>       |
| h5.Small heading    | Turns text into a heading at size 5.<br><b><i>Small heading</i></b> |
| h6.Smallest heading | Turns text into a heading at size 6.<br>Smallest heading            |

#### Text Effects

Text effects are used to change the formatting of words and sentences.

| Notation  | Description   |
|---|---|
| *bold*  | Makes text appear <b>bold</b> .   |
| _italic_  | Makes text appear in <i>italics</i> .   |
| +underline+   | Makes text appear <u>underlined</u> .   |
| ??citation??  | Makes text appear in — <i>citation</i> form.  |
| -strikethrough-   | Makes text appear <del>struck through</del> .   |
| ^superscript^   | Makes text appear in <sup>superscript</sup> .   |
| ~subscript~   | Makes text appear in <sub>subscript</sub> .   |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;">{ {monospaced} }</div> | Placing double curly-brackets around text makes it appear monospaced.   |
| bq. Block Quote   | <p>To make an entire paragraph into a block quotation, place "bq. " before it.</p> <p>Example:</p> <div style="border-left: 2px solid black; padding-left: 10px; margin-left: 20px;">Some block quoted text</div> |

|   |   |
|---|---|
| <pre>{quote} here is quoteable content to be quoted {quote}</pre> | <p>Quote a block of text that's longer than one paragraph.</p> <p>Example:</p> <div style="border-left: 1px solid #ccc; padding-left: 10px; margin-left: 20px;"> <i>here is quoteable<br/>content to be quoted</i> </div> |
| <pre>{color:red} look ma, red text! {color}</pre>                 | <p>Changes the color of a block of text.</p> <p><b>Example:</b> look ma, red text!</p>  |

### Text Breaks

Wiki Markup allows you to insert breaks or different kinds of hyphens and dashes.

| Notation  | Description                 |
|---|-----------------------------|
| (empty line)  | Produces a new paragraph    |
| <div style="border: 1px solid #ccc; padding: 5px; width: fit-content;">\\</div>   | Creates a line break.       |
| <div style="border: 1px solid #ccc; padding: 5px; width: fit-content;">----</div> | Creates a horizontal ruler. |
| <div style="border: 1px solid #ccc; padding: 5px; width: fit-content;">---</div>  | Produces em dash — symbol.  |
| <div style="border: 1px solid #ccc; padding: 5px; width: fit-content;">--</div>   | Produces en dash – symbol.  |

### Links

Creating links is easy with Wiki Markup.

| Notation                                  | Description   |
|---|---|
| [Crucible Review CR-FE-100 CR-FE-100]     | Creates a link to a Crucible review or FishEye artifact using the internal key reference for the item.  |
| [Atlassian Crucible http://atlassian.com] | <p>Creates a link to an external resource, special characters that come after the URL and are not part of it must be separated with a space. External links are denoted with an arrow icon.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li><a href="http://www.atlassian.com/crucible">http://www.atlassian.com/crucible</a></li> <li><a href="#">Atlassian Crucible</a></li> </ul> <p>Note: The square brackets [ , ], around external links are optional in the case you do not want to use any alternate text for the link (i.e. just display the raw URL).</p> |



|   |   |
|---|---|
| [mailto:mail@example.com]   | Creates a link to an email address.<br>Example:<br><a href="mailto:mail@example.com">mail@example.com</a>   |
| [file:///c:/temp/foo.txt]<br>[file:///z:/file/on/network/share.txt] | Creates a download link to a file on your computer or on a network share that you have mapped to a drive. To access the file, you must right click on the link and choose "Save Target As".   |
| {anchor:anchorname}   | Creates a bookmark anchor inside the page. You can then create links directly to that anchor. So a link like this: [My Page#here] will link to wherever in "My Page" there is an {anchor:here} macro, and the link [#there] will link to wherever in the current page there is an {anchor:there} macro. |

### Lists

Lists allow you to present information as a series of ordered items. Use asterisks \* for bulleted lists and hash symbols # for numbered lists.

| Notation   | Description   |
|--|---|
| <ul style="list-style-type: none"> <li>* A bulleted list</li> <li>* Second item</li> <li>** indented item 1</li> <li>** indented item 2</li> </ul><br><ul style="list-style-type: none"> <li># A numbered list</li> <li># Second item</li> <li>## indented item 1</li> <li>## indented item 2</li> </ul> | <p>Examples:</p> <ul style="list-style-type: none"> <li>• A bulleted list</li> <li>• Second item <ul style="list-style-type: none"> <li>• indented item 1</li> <li>• indented item 2</li> </ul> </li> </ul><br><ol style="list-style-type: none"> <li>1. A numbered list</li> <li>2. Second item <ol style="list-style-type: none"> <li>a. indented item 1</li> <li>b. indented item 2</li> </ol> </li> </ol> |

### Images

Images can be referenced from remote sources only.

| Notation  | Description   |
|---|---|
| !http://www.host.com/image.gif!                       | The image will be displayed from the remote source.   |
| !http://www.host.com/image.gif align=right, vspace=4! | For any image, you can also specify attributes of the image tag as a comma separated list of name=value pairs as shown in this example. |

### Tables

Tables allow you to organise content in a rows and columns, with a header row if required.

| Notation   | Description   |
|--|---|
| heading 1  heading 2  heading 3  <br> col A1 col A2 col A3 <br> col B1 col B2 col B3 | Makes a table. Use double bars for a table heading row. |

The code above produces a table that looks like this:

| heading 1 | heading 2 | heading 3 |
|-----------|-----------|-----------|
| col A1    | col A2    | col A3    |
| col B1    | col B2    | col B3    |

### Advanced Formatting

This section covers panels, code windows and showing plain text with no formatting.

| Notation   | Description   |
|------------|---|
| {noformat} | <p>Makes a preformatted block of text with no syntax highlighting. All the optional parameters of the {noformat} macro are valid for the {panel} macro as well.</p> <p>Example:</p> <div><pre>This is a no-formatted piece of text, so *no* _formatting_ is done here.</pre></div>  |
| {panel}    | <p>Embraces a block of text within a fully customizable panel. The optional parameters you can define are as follows.</p> <ul style="list-style-type: none"><li>• title: Title of the panel</li><li>• borderStyle: The style of the border this panel uses (solid, dashed and other valid CSS border styles)</li><li>• borderColor: The color of the border this panel uses</li><li>• borderWidth: The width of the border this panel uses</li><li>• bgColor: The background color of this panel</li><li>• titleBGColor: The background color of the title section of this panel</li></ul> <p>Examples:</p> <div><div>Some text in a basic panel</div><div><b>My Title</b><br/>Some text with a title</div></div> |

|   |  |
|---|--|
| <pre>{code}code goes here{code}</pre> <pre>{code:title=Bar.java borderStyle=solid} // Some comments here public String getFoo() {     return foo; } {code}</pre> <pre>{code:xml} &lt;test&gt; &lt;another tag="attribute"/&gt; &lt;/test&gt; {code}</pre> | <p>The code macro displays a preformatted block for showing code with syntax highlighting. All the optional parameters of the {panel} macro are valid for {code}. The default language is Java but you can specify JavaScript, ActionScript, XML or SQL.</p> <p>Examples:</p> <p><b>Java with a title bar:</b></p> <div> <div>Bar.java</div> <pre>// Some comments here public String getFoo() {     return foo; }</pre> </div> <p><b>A basic display with XML code:</b></p> <div> <pre>&lt;test&gt;   &lt;another tag="attribute"/&gt; &lt;/test&gt;</pre> </div> |
|---|--|

#### Miscellaneous Markup Features

Emoticons and often-used images can be easily embedded with the following Wiki Markup Syntax:

| Notation  |     |     |     |      | Description                            |     |      |      |      |      |     |
|-----------|-----|-----|-----|------|--|-----|------|------|------|------|-----|
| \X        |     |     |     |      | Escape special character X (i.e. {})   |     |      |      |      |      |     |
| :), :(    |     |     |     |      | Graphical emoticons (smileys): 😊, ☹️ . |     |      |      |      |      |     |
|           |     |     |     |      |  |     |      |      |      |      |     |
| Notati on | :)  | :(  | :P  | :D   | ;)                                     | (y) | (n)  | (i)  | (/)  | (x)  | (!) |
| Image     | 😊   | ☹️  | 😜   | 😄    | 😊                                      | 👍   | 👎    | ℹ️   | ✅    | ❌    | ⚠️  |
|           |     |     |     |      |  |     |      |      |      |      |     |
| Notatio n | (+) | (-) | (?) | (on) | (off)                                  | (*) | (*r) | (*g) | (*b) | (*y) |     |
| Image     | ➕   | ➖   | ❓   | 💡    | 💡                                      | ★   | ★    | ★    | ★    | ★    | ★   |

## Tracking Crucible Review Metrics

Crucible tracks each participant's percentage completion through each review and the total time they have spent.

To learn about these features, see the following pages:

- [Using Progress Tracking](#)
- [Using Time Tracking](#)

### Using Progress Tracking

This page contains instruction on how to use progress tracking in Crucible.

On this page:

- How progress tracking works in Crucible
- Viewing the progress tracking totals
- How to adjust progress tracking on a review
- Adjusting settings for progress tracking
- Further reading

#### How progress tracking works in Crucible

As you work your way through the files in a review, Crucible tracks the ones you have viewed. Whenever you open a file for review, Crucible will automatically mark it as read.

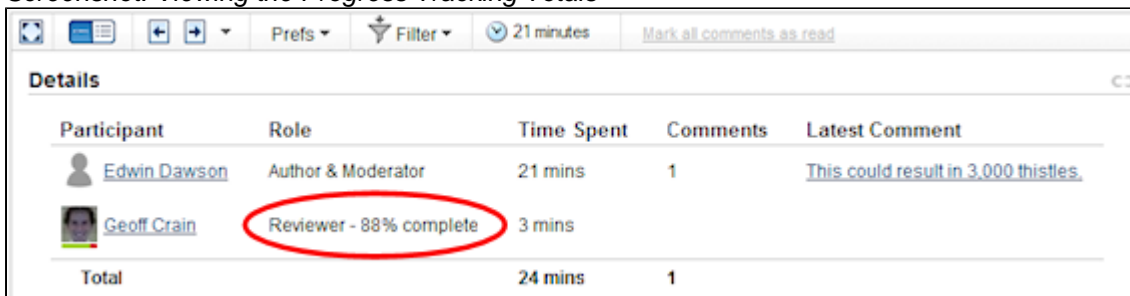
When participating in [iterative reviews](#), progress tracking also takes lines of code and revisions into account.

#### Viewing the progress tracking totals

The 'Details' section shows a summary of the progress of each participant through the files in the review.

**i** If there is only one file in the review, then the progress tracked will either show 0% or 100%.

#### Screenshot: Viewing the Progress Tracking Totals

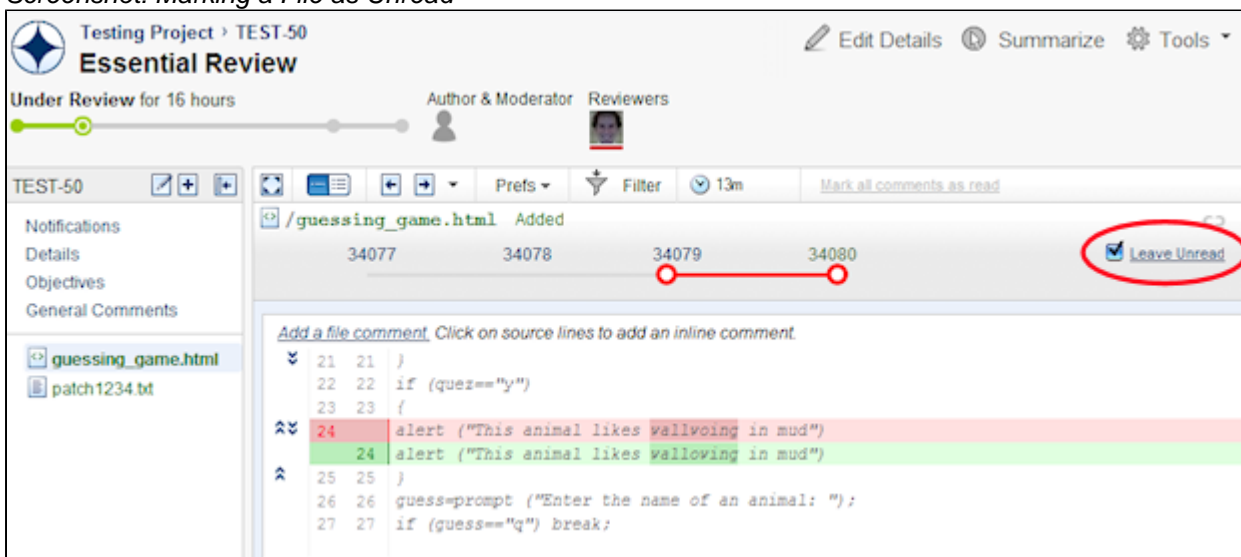


| Participant                  | Role                    | Time Spent | Comments | Latest Comment                                       |
|------------------------------|-------------------------|------------|----------|--|
| <a href="#">Edwin Dawson</a> | Author & Moderator      | 21 mins    | 1        | <a href="#">This could result in 3,000 thistles.</a> |
| <a href="#">Geoff Crain</a>  | Reviewer - 88% complete | 3 mins     |          |  |
| Total                        |                         | 24 mins    | 1        |  |

#### How to adjust progress tracking on a review

You can mark a file as unread by clicking on its name to view the file's contents, and then clicking **Leave Unread** (at the right of the file's toolbar). This file is now not included in your progress percentage.

#### Screenshot: Marking a File as Unread



The screenshot shows the 'Essential Review' interface for 'TEST-50'. The 'Under Review for 16 hours' progress bar is visible. The 'Author & Moderator' and 'Reviewers' sections are shown. The file 'guessing\_game.html' is selected, and its toolbar includes a 'Leave Unread' button, which is circled in red. The code editor shows the following code:

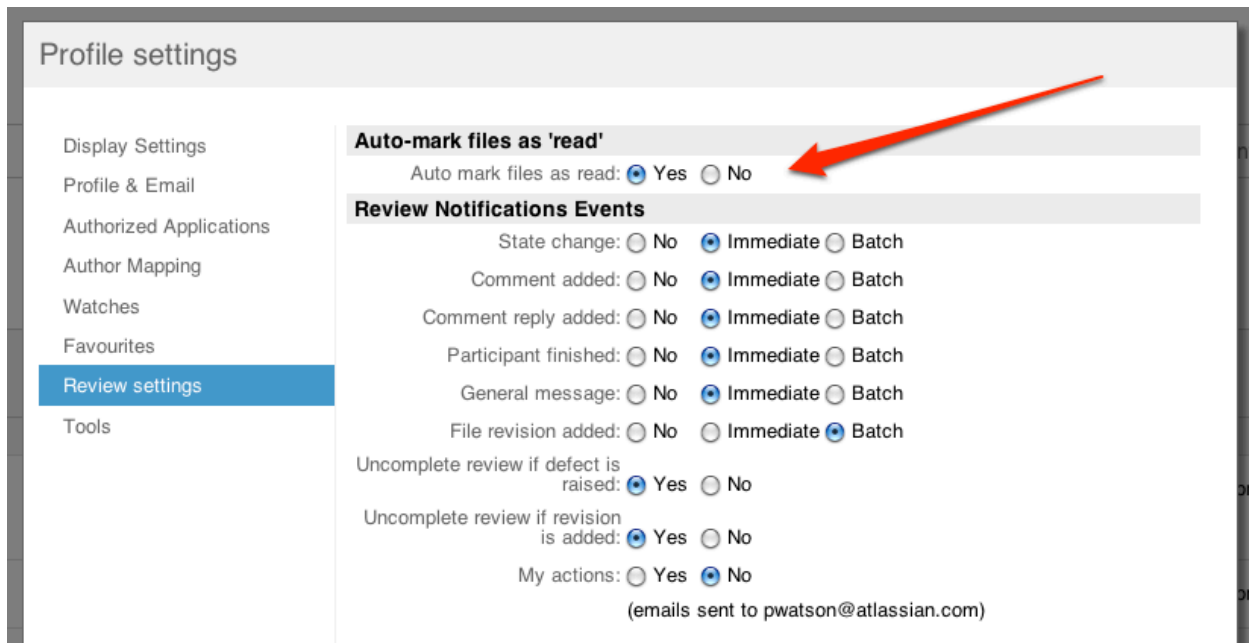
```

21 21  }
22 22  if (queze=="y")
23 23  {
24 24  alert ("This animal likes wallvoing in mud")
24 24  alert ("This animal likes wallowing in mud")
25 25  }
26 26  guess=prompt ("Enter the name of an animal: ");
27 27  if (guess=="q") break;

```

#### Adjusting settings for progress tracking

Progress tracking is a configurable user preference – choose **Profile settings** from your user menu. On the **Review settings** tab, **Auto-mark files as read** is on by default – when set to off, you have to mark files as read or unread yourself.



#### Further reading

You may also want to learn about Crucible's [Time Tracking](#) feature.

#### Using Time Tracking

This page contains instruction on how to use time tracking in Crucible.

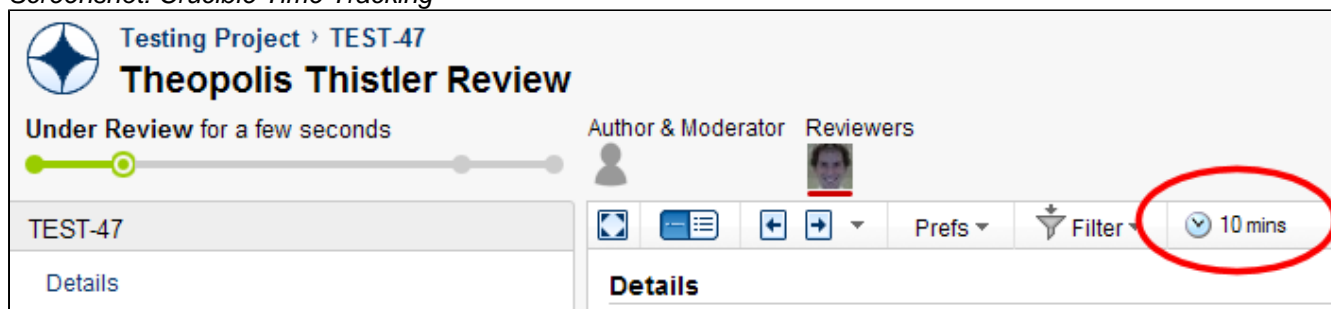
On this page:

- [How time tracking works in Crucible](#)
- [How to adjust the time tracked on a review](#)
- [Viewing the time tracking totals](#)
- [JIRA integration](#)
- [Further reading](#)

#### How time tracking works in Crucible

Crucible will automatically track the time you spend in a Crucible review. When you open a file for review, a counter in the Review Details panel starts. The time is added to your total when you leave the review screen.

Screenshot: *Crucible Time Tracking*



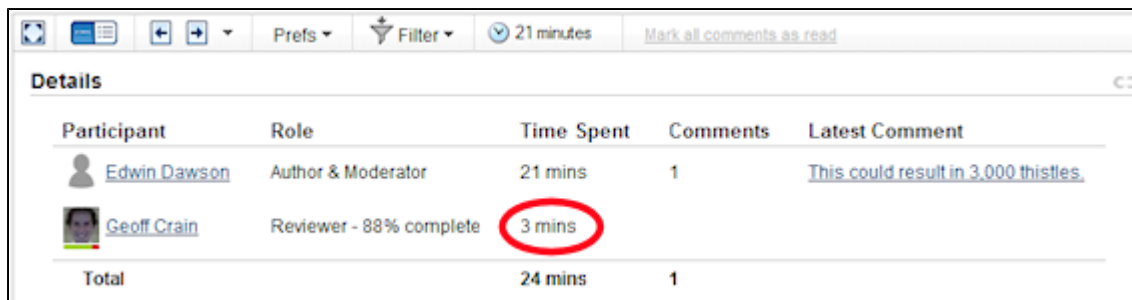
#### How to adjust the time tracked on a review

You can click and type in the time tracking control to adjust the time you have spent during the session.

#### Viewing the time tracking totals

The 'Details' section shows a summary of the progress and time tracked on each file.

Screenshot: *Crucible Tracking Totals*



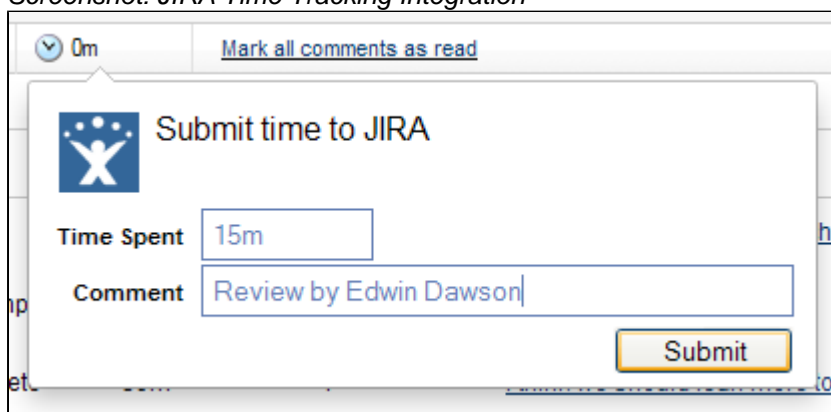
| Participant  | Role                    | Time Spent | Comments | Latest Comment                                       |
|--------------|-------------------------|------------|----------|--|
| Edwin Dawson | Author & Moderator      | 21 mins    | 1        | <a href="#">This could result in 3,000 thistles.</a> |
| Geoff Crain  | Reviewer - 88% complete | 3 mins     |          |  |
| Total        |                         | 24 mins    | 1        |  |

### JIRA integration

Using Crucible when [integrated with JIRA](#), you can update time tracking from the following locations:

- The confirmation dialog for a reviewer completing a review,
- The confirmation dialog on closing a review,
- The regular toolbar location in Crucible.

*Screenshot: JIRA Time Tracking Integration*



0m [Mark all comments as read](#)

**Submit time to JIRA**

Time Spent

Comment

### Further reading

You may also want to learn about Crucible's [Progress Tracking](#) feature.

## JIRA integration in Crucible

[JIRA](#) is Atlassian's issue tracking and project management application.

When Crucible is integrated with JIRA, you and your team get all the benefits described on this page:

In Crucible, you can:

- [See all the Crucible reviews related to a JIRA issue](#)
- [Create a Crucible review directly from an issue in JIRA](#)
- [Link your Crucible review to a JIRA issue](#)
- [Create a JIRA issue from a review comment](#)
- [Transition JIRA issues from within Crucible](#)
- [See issues from multiple instances of JIRA](#)

#### Related pages:

- [Creating a review from JIRA](#)
- [Creating JIRA issues from the review](#)
- [Transitioning JIRA issues](#)
- [Linking Crucible to JIRA](#)

Note that your Crucible and JIRA instances must be linked to make use of these JIRA integration features. See [Linking Crucible to JIRA](#).

The Crucible project requires a linked JIRA project before issues can be linked to reviews.

**See all the Crucible reviews related to a JIRA issue**

In a JIRA issue, the Development panel shows the number of reviews that are linked to the issue. Click the **reviews** link to see details of those reviews.

### Link your Crucible review to a JIRA issue

When creating, or editing, your review, Crucible will suggest a JIRA issue that can be linked to the review, if a JIRA issue key is found in the review title. You can:

- click the suggested JIRA issue key, to link it to the review
- delete the suggested JIRA issue and specify a different issue key and click **Link** to save it.

**Edit Review Details CR-FE-6139**

Project: CR-FE

Title: CRUC-5879: Set default due due to duration rounded to nearest half hour instead of exact duration from

Author: Adam Ahmed

Reviewers:  [Suggest reviewers...](#) ☒ Allow anyone to join

Seb Ruiz

Tim Pettersen

Objectives: 

d3484be6a4122053e4e37457cb2b508566654fdb: CRUC-5879: Set default due due to duration rounded to nearest half hour instead of exact duration from now. This matches the UI options and avoids random due date changes when editing details and dumb-looking due dates showing up in the UI (Due at 3:14:15 tomorrow looks dumb)

Due Date: 07/09/2011 12:00 AM

Linked Review:  [Link](#)

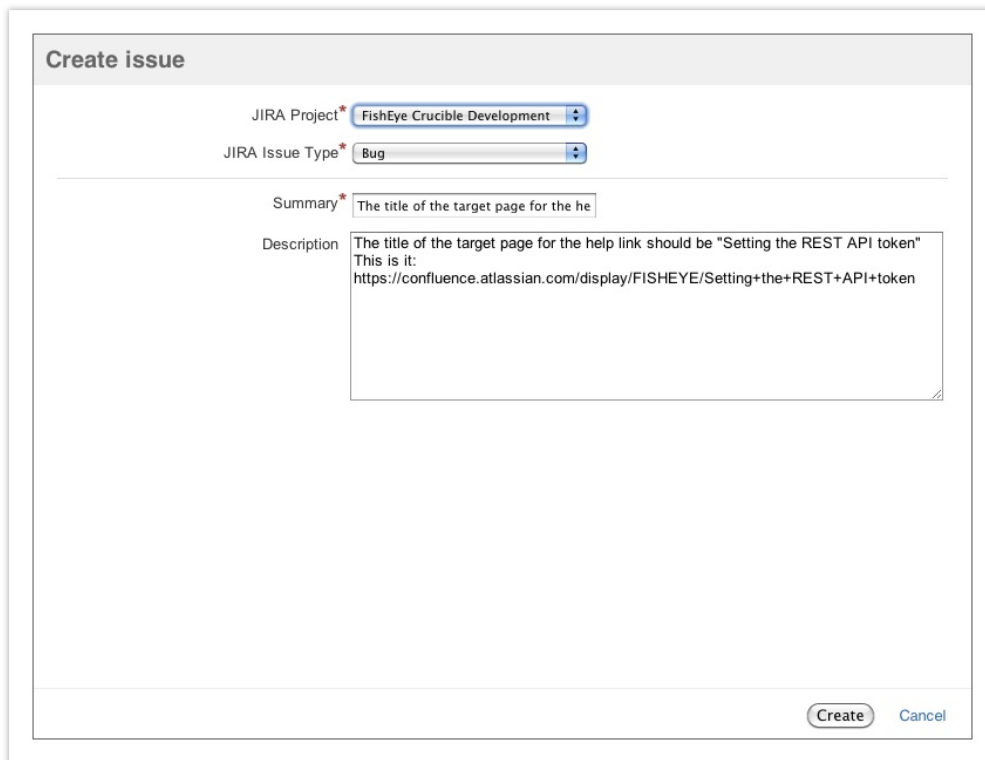
Linked Issue: CRUC-5879 - Review due and reminder dates that change by < second are tracked

[Add Content](#) [Done](#)

### Create a JIRA issue from a review comment

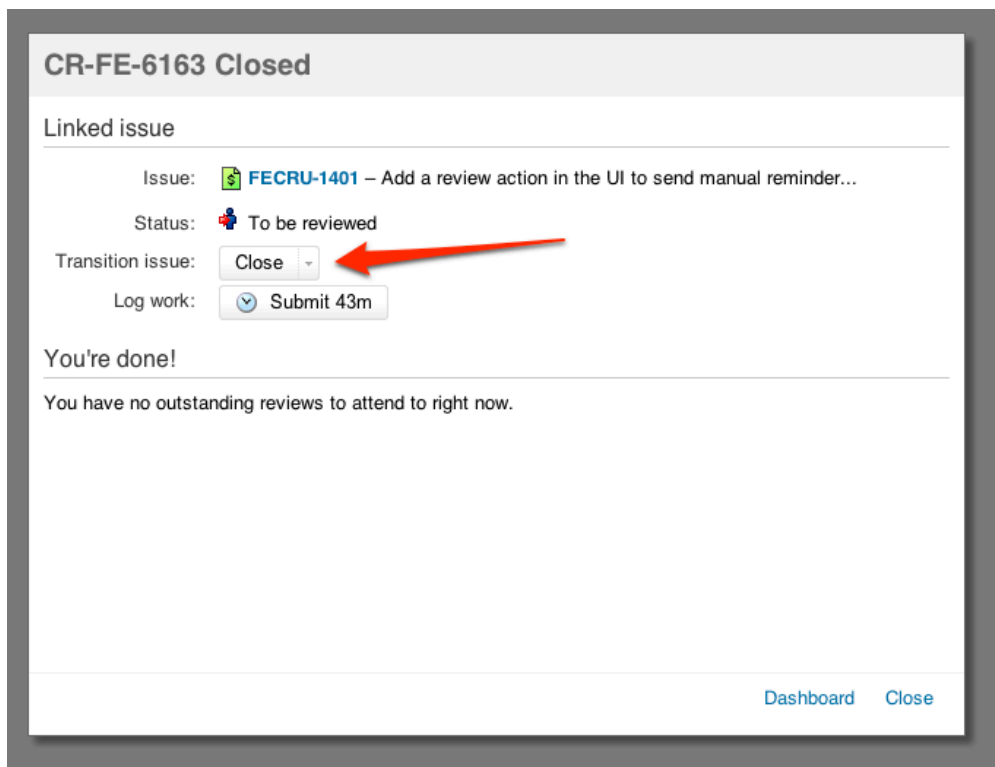
When viewing any review comment (general, file, inline), you can click **Create Issue** in the comment to create a JIRA issue. Crucible suggests the JIRA instance, project and issue type, but you can modify these. This requires JIRA 5.0, or later, and is disabled if Crucible is integrated with an earlier version of JIRA.

See [Creating JIRA issues from the review](#) for more details.



### Transition JIRA issues from within Crucible

For Crucible reviews that have [linked JIRA issues](#), you can advance the JIRA workflow for the issue from within Crucible. You can do this at any time by clicking the linked issue, or when you close the review:



See [Transitioning JIRA issues](#) for more details.

### See issues from multiple instances of JIRA

Crucible can [link to more than one JIRA server](#) at a time, so different teams can work with their own projects in



different JIRA instances, or a single team can link to issues across multiple JIRA servers.

## Summarising and closing the review

Summarize is an optional step before closing a review.

To enable or disable the Summarize step, you will have to configure the permission in your [Permission Scheme](#). Crucible ships with two permission schemes:

- 'Agile' - the summarize step is disabled for all users
- 'Default' - the summarize step is enabled for the [moderator](#)

You can choose to either *summarize a review* or *close a review* at any time, given that your Permission Scheme allows it. You can skip the summarize step by directly clicking **Close**.

Note that you need the '[Summarize](#)', '[Close](#)' or '[Re-Open](#)' permission to summarize, close or re-open a review.

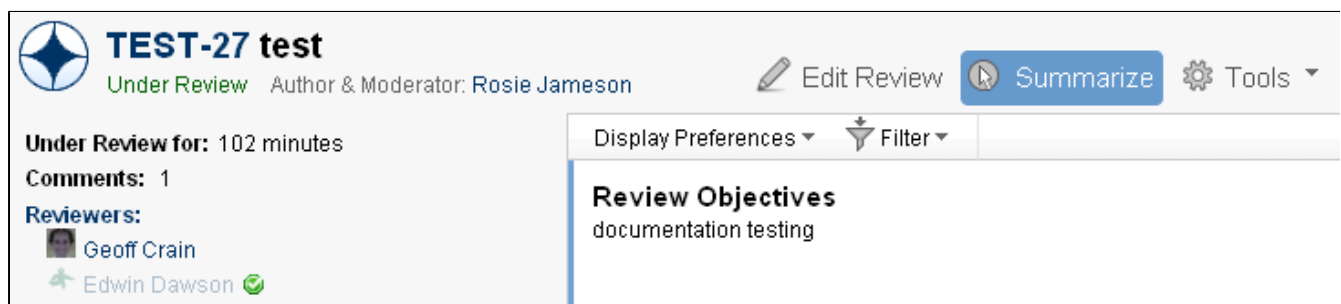
Normally, we recommend that you wait for all reviewers to [complete their reviews](#), before summarizing or closing the review.

The reviews that the reviewers have completed will be in your **Ready to Close** menu on the [Dashboard](#).

To summarize a review,

- Click **Summarize** at the right of the screen.
- Optionally enter a summary of the review.
- If you have no further [comments](#) to add, click **Close Review**; otherwise, click **Continue Without Closing**.
- On clicking **Summarize**, you may be prompted to confirm the action if there are incomplete reviews or draft comments in the review. These are warnings, however; the review can still be summarized and closed.

*Screenshot: 'Summarize' button. We can see that Geoff Crain has still not finished reviewing, because there is no green tick next to his name.*



Once the review is in the 'Summarize' [state](#), the moderator can optionally add a review summary, for example, to describe the outcomes/tasks/etc:

### Summarize Review

**Summarize the review outcomes (optional)**

Testing successful. Thanks for your time, everyone.

Continue Without Closing

Close Review


Screenshot: Review Closed

Review Closed

Review Summary

Testing successful. Thanks for your time, everyone.

Reviews requiring your attention:

| Task   | Review                     | Owner   | Due    |
|--------|----------------------------|---|--------|
| Review | <a href="#">CR-FE-2170</a> |  | 03 Jul |

Dashboard

Close

The summary is sent to all participants and is displayed at the top of the closed review.

- Reviews in the 'Review' or 'Summarize' state can be closed.
- Reviews in the 'Summarize' or 'Closed' state can be re-opened. Re-opening changes the review's state back to 'Under Review', allowing all participants to add comments.
- See [this page](#) for a list of the states that a review can be in.



Re-opening a review is not the recommended way to 're-review'. You should create a new review with the reworked changes and link it to its parent review (create a hyperlink back to the original review in the new Review's Objectives field).

## Managing your reviews

See:

- [Using Review Reminders](#)
- [Sending a review's comments via email](#)
- [Moving a Review to Another Project](#)
- [Deleting a review](#)

### Using Review Reminders

Crucible will automatically send reviewers a reminder email one working day before the deadline.

Review authors and moderators can also do the following:

- Send manual reminders to reviewers whose work is still pending.
- Configure preset reminders for reviews that have a deadline.

Reminders are only sent if Crucible's SMTP server is configured. Please see [Configuring the SMTP server](#).

#### Preset Reminders

When a review has a deadline (due date), you can have Crucible send a preset reminder to all of the pending

reviewers, some number of working days before the deadline.

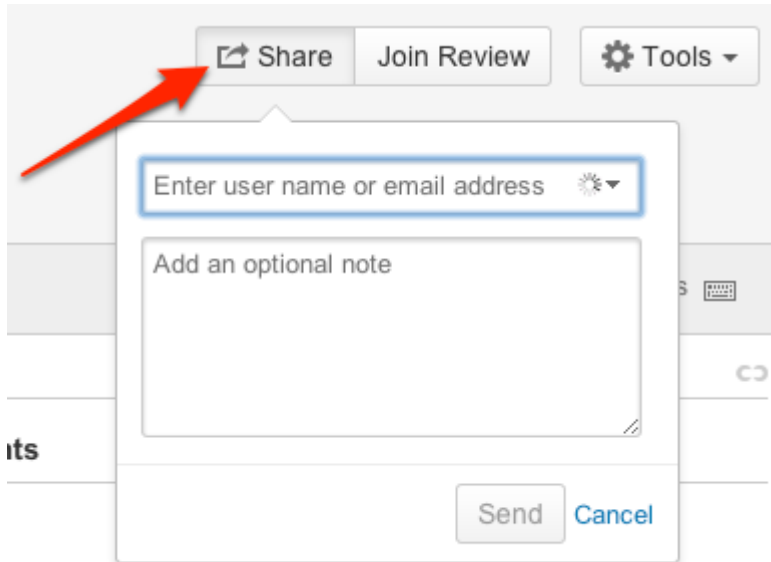
To add a reminder, firstly edit the review, then click **Add a reminder**. You can edit the reminder period.

**i** The **Send Reminder** setting is only available if the review has a due date set.

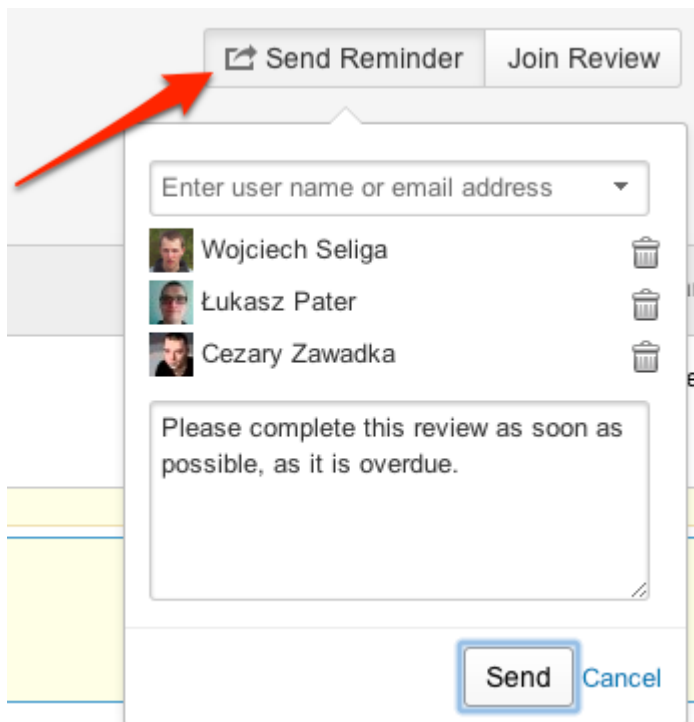
### Manual Reminders

You can send a reminder to all the reviewers that have not yet completed their review:

Before the review is due, click **Share** and add recipients and a message:



If the review is overdue, click **Send Reminder**. The message is pre-populated with recipients who have not yet completed their review.



### Sending a review's comments via email

You can download all of the comments from a review as plain text, so that you can send that to anyone you want via email. You may wish to do this to allow a person outside the review to quickly scan the content of the

comments, or oversee the review activity. Alternatively, you may wish to send all participants this information to let them read the current status of the review and its comments in full.

#### To send all of a review's comments via email:

1. In Crucible, navigate to the review in question.
2. Choose **Tools** > **Download as Text**.
3. Copy the on-screen text and paste it into an email.
4. Send.

### Moving a Review to Another Project

You can move reviews between projects once they have been created.

#### To move a review between projects:


1. Open the review. Click the '**Edit Review**' button at the top of the screen.
2. The '**Edit Review**' window will open, allowing you to change various aspects of the review.
3. Under '**Project**' click the drop-down menu. This will allow you to select a new parent project for the review.
4. Click the '**Done**' button at the bottom of the screen.

*Screenshot: Changing a Review's Parent Project*

The screenshot shows the 'Edit Review' window for a review titled 'A test review'. The 'Project' dropdown menu is highlighted with a red circle, showing 'Testing Project' as the current selection. The 'Moderator' is 'Rosie Jameson' and the 'Author' is also 'Rosie Jameson'. Under 'Select Reviewers', 'Geoff Crain' is checked. The 'Get Reviewer Suggestions' section has a 'Suggest Reviewers' button. The 'Due Date' field is empty. The 'Linked JIRA Issue' section has an 'Issue key' field and a 'Link' button. The 'Linked Review' section has a 'Review Key' field and a 'Link' button. The 'Statement of Objectives' text area contains the text 'Test moving a review to another project.'. At the bottom left is a 'Reset' button, and at the bottom right are 'Abandon Review' and 'Done' buttons.

#### Deleting a review

To delete a review you must first abandon the review. To do that, follow the instructions below.

 Deleted reviews cannot be retrieved.

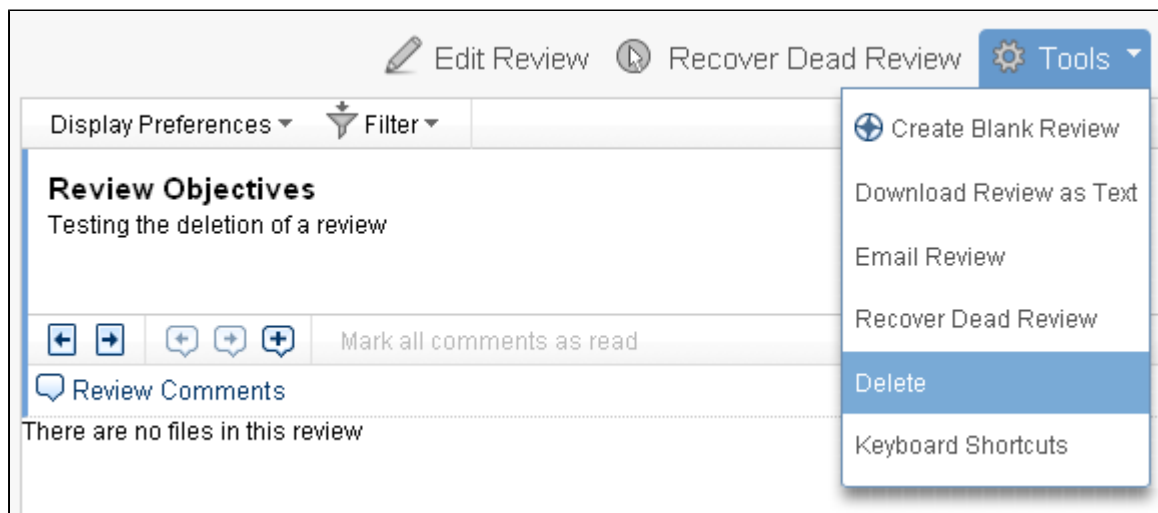
**Related page:**

- [Deleting hung reviews manually](#)

**To abandon and then delete a review:**

1. Open the review.
2. Choose **Tools > Abandon**.
3. Now, on the Crucible dashboard, click **My Abandoned Reviews** in the left-hand navigation bar.
4. In the list of abandoned reviews, click the name of the review you wish to remove.
5. Once the review details are displaying, choose **Tools > Delete**. The review will be instantly deleted.

*Screenshot: Deleting a review in Crucible*



## Transitioning JIRA issues

When Crucible is [linked to JIRA](#), you can advance the workflow for a JIRA issue directly from within Crucible.

You can transition a JIRA issue in two ways:

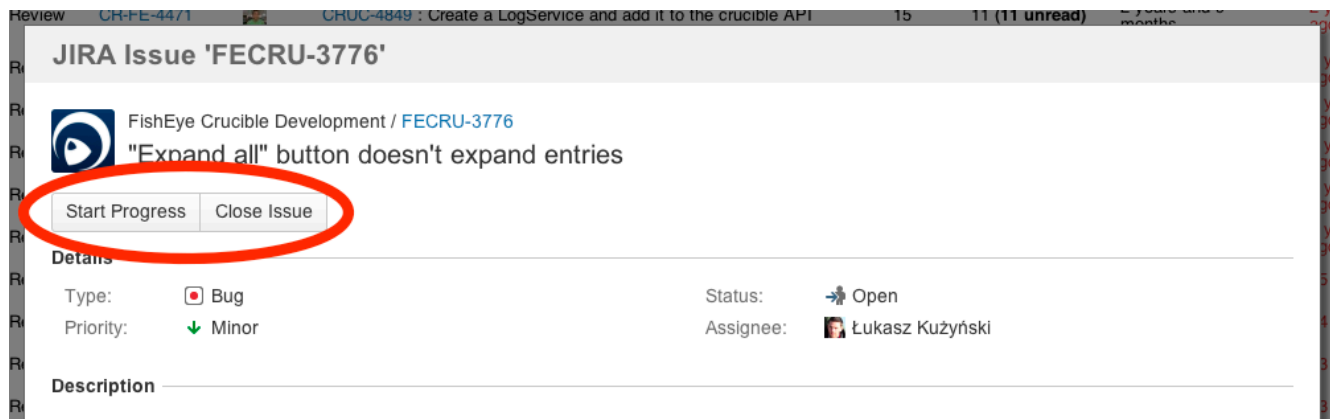
- [Transitioning any JIRA issue at any time](#)
- [Transitioning a linked JIRA issue when closing the review](#)

**Related pages:**

- [JIRA integration in Crucible](#)
- [Creating JIRA issues from the review](#)
- [Linking Crucible to JIRA](#)

### Transitioning any JIRA issue at any time

You can easily [transition](#) a JIRA issue at any time from within Crucible. Click on a JIRA issue link anywhere in Crucible to see a dialog with the available workflow steps:

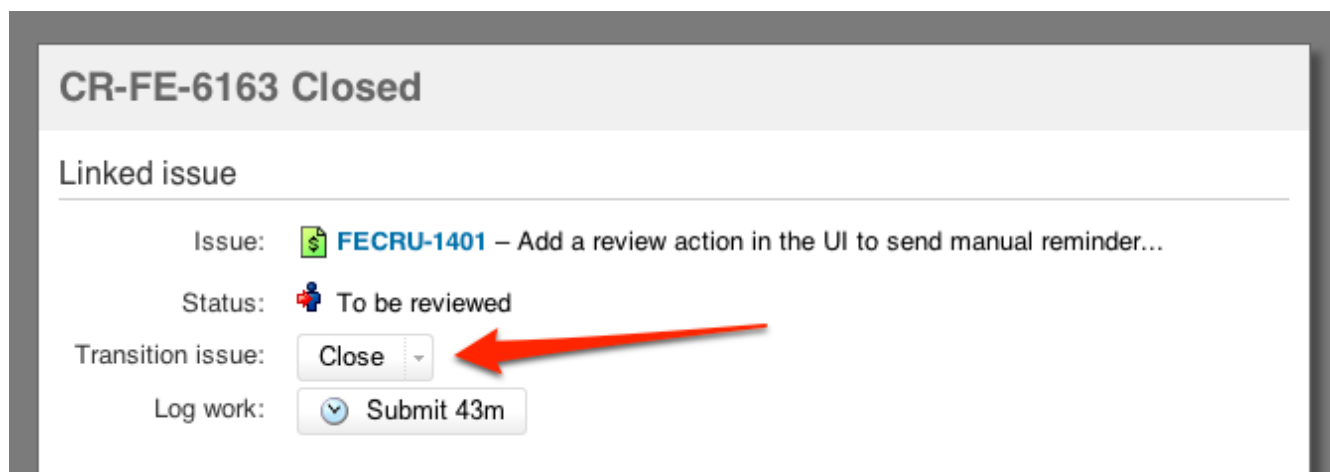


Click on a step in the dialog, and complete any displayed fields as required. If there are custom required fields that are unsupported by Crucible, just click **Edit this field in JIRA** to transition the issue directly in JIRA.

### Transitioning a linked JIRA issue when closing the review

When closing a Crucible review you may also want to close a JIRA issue that is [linked to that review](#).

In the Review Summary screen, click **Close** near the top right. In the 'Closed' dialog, the available workflow transitions for the linked JIRA issue appear in the **Transition issue** dropdown:



Choose a step from the dropdown, and click **Close**.

#### Notes

- Only the transitions accessible by the user are displayed.
- The list of available transitions only appears if the user has visibility to any available workflow transitions.
- Crucible administrators can turn off JIRA issue transitioning by disabling the Crucible Issue Transitioning Plugin. See [Managing add-ons](#).

**i** This feature does not support editing fields on the issue, only setting the *resolution* field if required by the transition.

## Administering Crucible

The Admin area allows you to administer your Crucible instance and to manage your repositories, users and back-end settings.

Once Crucible is [installed](#) and running, you can log in to the Admin area by either:

- logging in with an administrator's account.
- clicking **Administration** at the foot of the page.
- navigating to `http://HOSTNAME:8060/admin/`, where `HOSTNAME` is the name of the server on which you installed Crucible.

Once logged in as an [administrator](#) you can get to the Admin area by clicking the 'cog' menu in the FishEye/Crucible header, and choosing **Administration**.

For information on administering FishEye, please refer to the [FishEye documentation](#).

## Topics

- [Best practices for Crucible configuration](#)
- [Crucible and FishEye](#)
- [Administering projects](#)
- [Configuring repositories](#)
- [Setting up users and security](#)
- [Permissions](#)
- [Migrating to an external database](#)
- [Backing up and restoring Crucible data](#)
- [Customising Crucible](#)
- [Integrating Crucible with other applications](#)
- [Managing add-ons](#)

## Best practices for Crucible configuration

1. Set up a separate FISHEYE\_INST folder location on the same system for Crucible's data.

This will allow for easy upgrades of the core program and neatly separated data backup.

2. Run Crucible on a dedicated machine, accessing its data on the local file system.

This is the best environment for swift Crucible performance. Avoid running Crucible in a virtual environment.

3. Do not give Crucible projects the same key as your JIRA projects.

When naming projects, take care to ensure that the key you assign to them is not the same as any of your JIRA projects. The reason for this is, if one of your Crucible projects has the same key as one of your projects in JIRA, then all links with that key will lead back to Crucible, rather than leading to JIRA, removing the ability to navigate between the two applications.

To avoid this, name your Crucible project keys differently. For example, you could place the following text at the beginning of each project key: CR- to distinguish it. So, for this case, if you have an existing JIRA key of 'RHUBARB', you would create a Crucible key called 'CR-RHUBARB' so that they do not conflict.

4. Do not use the built-in HSQLDB database for production use.

The Crucible built-in database, running [HSQLDB](#) is somewhat susceptible to data loss during system crashes. We recommend that you do not use HSQLDB for production systems. External databases are generally more resistant to data loss during a system crash and are more suited for production use.

To see a list of external databases that Crucible supports, see the [Supported platforms](#) page. For information on how to set up an external database, see the [Crucible Database documentation](#).

## Crucible and FishEye

This page gives an overview of the joint installation of [Crucible](#) and [FishEye](#). Both Crucible and FishEye are [Atlassian](#) products.

- **FishEye** allows you to extract information from your source code repository and display it in sophisticated reports.
- **Crucible** allows you to request, perform and manage code reviews.
- Both of these products can run in isolation. If you are using Subversion, Git, Mercurial, CVS or Perforce you can significantly enhance your Crucible experience by also using FishEye.
  - See [What happens if I decide to stop using FishEye with Crucible?](#) to learn more.



### Your Crucible installation package includes the files required for FishEye

If you use FishEye and Crucible together, they run as one instance.

## Purchasing and installing Crucible/FishEye

- If you install Crucible, there is no need to do a separate installation of FishEye.
- Upgrading Crucible to also use FishEye requires only a simple licence change in the admin area.



- Upgrading an existing FishEye installation to also use Crucible requires a Crucible install. You can either keep the original FishEye installation or install Crucible and FishEye as a fresh install. Refer to the guide on [upgrading from FishEye to Crucible](#).

### The <Crucible home directory> and FISHEYE\_INST

Throughout the Crucible documentation, references are made to the <Crucible home directory>, which refers to the location of the Crucible application. Be aware that, when Crucible is run with FishEye, this location is equivalent to the location referred to by <FishEye home directory> in the FishEye documentation.

Crucible also makes use of this FishEye environment variable:

- FISHEYE\_INST – the location of the FishEye data.

Refer to the FishEye documentation for more about the [environment variables](#).

### Installing the Crucible binary files

See the following for Crucible install instructions:

- [Installing Crucible on Windows](#)
- [Installing Crucible on Linux and Mac](#)

### Setting up a repository for use with stand-alone Crucible

For complete instructions, see [Configuring repositories](#).

### Setting up a Repository for use with FishEye and Crucible

If you intend to use Crucible and FishEye with:

- [Subversion](#), please read [Supported platforms](#), [Subversion client setup](#), and [granting permission to FishEye](#) to scan your repository.
- [Git](#), please read [Supported platforms](#) and [Git Client setup](#).
- [Perforce](#), please read [Supported platforms](#) and [Perforce Client setup](#).
- [CVS](#), please read [Supported platforms](#) and [CVS Client setup](#).
- [Mercurial](#), please read [Supported platforms](#) and [Mercurial Client setup](#).

### Detailed Documentation

You can find more information in:

- Crucible [Getting Started](#)
- FishEye [Getting started](#)

## Administering projects

A Crucible *project* provides a way to group and manage related [reviews](#) – typically reviews that are all involved with the same software project. A Crucible project allows you to

- define default [moderators](#), [authors](#) and [reviewers](#) for the reviews in that project.
- define which people are eligible to be [reviewers](#) for the reviews in that project.
- use [permission schemes](#) to restrict who can perform particular actions (e.g. 'Create Review') in that project.

Every Crucible review belongs to a project. Each project has a *name* (e.g. ACME Development) and a *key* (e.g. ACME). The project key becomes the first part of that project's *review keys*, e.g. ACME-101, ACME-102, etc:

By default, Crucible contains one project. This default project has the key 'CR' and the name 'Default Project'.

When administering your Crucible projects from the projects listing in the [admin area](#), you can:

- Click **Add a new project** (at the bottom of the list) to [create a new project](#).
- Click **Edit** (in the 'Crucible Settings' column) for an existing project to [edit its settings](#).
- Click **Delete** for an existing project to delete it. See [Deleting a project](#) below.

## Deleting a project

Before you begin:

- By default, Crucible contains one project; it has the key 'CR' and the name 'Default Project'. This project cannot be deleted.
- Deleted projects cannot be recovered.

### To delete a Crucible project:

1. Go to the [admin area](#) and click **Projects** (under 'Project Settings').
2. Click **Delete** (in the 'Crucible Settings' column) for the project you wish to remove.
3. If empty, the project instantly disappears.  
If the project contains reviews, you will be prompted to either delete all the reviews in the project, or move them into the default project.

## Creating a project

A Crucible *project* provides a way to group and manage related [reviews](#) – typically reviews that are all involved with the same software project. A Crucible project allows you to

- define default [moderators](#), [authors](#) and [reviewers](#) for the reviews in that project.
- define which people are eligible to be [reviewers](#) for the reviews in that project.
- use [permission schemes](#) to restrict who can perform particular actions (e.g. 'Create Review') in that project.

Every Crucible review belongs to a project. Each project has a *name* (e.g. ACME Development) and a *key* (e.g. ACME). The project key becomes the first part of that project's *review keys*, e.g. ACME-101, ACME-102, etc:

By default, Crucible contains one project. This default project has the key 'CR' and the name 'Default Project'.

### To create a new project:

1. Click the 'cog' menu in the Crucible header, and choose **Administration**. You need to be logged in as an [administrator](#) to see this.
2. Click **Projects** (under 'Project Settings').
3. Click **Add a new project** (at the bottom of the list).
4. Complete the fields in the 'Edit Project' page (described below).
5. Click **Save** to create your new project.

|                |  |
|----------------|--|
| Identification | <ul style="list-style-type: none"> <li>• <b>Name</b> – the plain language name as displayed in the Crucible interface.</li> <li>• <b>Key</b> – the project key used when giving reviews their unique code names. If you change the key for a project all open, and closed, reviews in the project are updated with the new key.</li> </ul>   |
| Content        | <ul style="list-style-type: none"> <li>• <b>Default Repository</b> – the repository that contains the source code for this project. This is the repository that will be searched by default when you <a href="#">add files to a review</a>.</li> <li>• <b>Store the contents of files in reviews</b> – check to have the source files under review stored in the Crucible database, along with the comments and review data. This retains a copy of all the source files under review even if the repository is disconnected from Crucible. See <a href="#">Storing all revisions under review</a>.</li> </ul> |

|                             |  |
|-----------------------------|--|
| Permission Scheme           | <b>Permission Scheme</b> – the <a href="#">permission scheme</a> applied to this project. (A permission scheme controls who can perform particular actions, for example, create a review.)   |
| Moderator                   | <ul style="list-style-type: none"> <li>• <b>Enable the Moderator role</b> – clear to have reviews run by the author only. See <a href="#">Enabling the moderator role</a>.</li> <li>• <b>Default Moderator</b> – the user who will be set as the moderator for all new reviews created in the project. Leave this field blank to force the review's creator to choose a moderator. See <a href="#">Creating a review</a>.</li> </ul>   |
| Default Reviewers           | <ul style="list-style-type: none"> <li>• <b>By default, allow anyone to join reviews after creation</b> – sets the default state of the <b>Allow anyone to join</b> checkbox on the '<a href="#">Choosing reviewers</a>' screen.</li> <li>• <b>Users</b> – set the individual users to whom new reviews will be assigned by default.</li> <li>• <b>Groups</b> – set the groups to which new reviews will be assigned by default.</li> </ul>  |
| Allowed Review Participants | Use <b>Users</b> and <b>Groups</b> to restrict who can have a role ( <a href="#">author/creator/moderator/reviewer</a> ) in this project's reviews. These users will be the only ones whose names appear when a review is <a href="#">assigned</a> . Leave these fields blank to allow all users to have access.   |
| Review Duration             | <b>Default duration</b> – the default length of time (in week days) for reviews in this project. If you leave the field blank, then no time restriction is applied. Reviews that are overdue will show up in red on the reviewer's <a href="#">dashboards</a> . Note that the review duration only affects the default due date that appears when <a href="#">creating a review</a> . The review's <a href="#">creator</a> or <a href="#">moderator</a> can specify a different date if they wish. |
| Default Review Objectives   | <b>Default Objectives</b> – specify some text that will appear by default in the <b>Review Objectives</b> field of each new review. This text can be edited, as with any text in the Review Objectives text box. See <a href="#">Setting default review objectives</a> .   |

Screenshot: The Edit Project Screen

### Edit Project

**Identification**


Name:

Key:


**Default Review Content Repository**

Default Repository:

☒ Store the contents of files in reviews


**Project Permissions Scheme **

Permission Scheme:

**Moderator **

☒ Enable the Moderator role for this project


Default Moderator:  Start typing a user name then press enter to select.

**Default Reviewers **

☐ By default, allow anyone to join reviews after creation


Users:  Start typing a user name then press enter to select.

Groups:  Start typing a group name then press enter to select.


**Allowed Review Participants  (Leave blank to let all users access this project)**

Users:  Start typing a user name then press enter to select.

Groups:  Start typing a group name then press enter to select.

**Review Duration **


Default duration in week days:

**Default Review Objectives **

Default Review Objectives:

### Storing all revisions under review

When creating a project or editing a project's properties, you can set Crucible to save all files (and revisions of those) associated with a review to Crucible's database. This allows you to be able to view that file content whether or not the repository is online or accessible to Crucible. It also creates an enhanced audit trail should you require it, saving the review content regardless of whether or not it is deleted or lost from the repository.

 Note that the storage of files must be set per-project. Also, the storage only applies to reviews created after Revision Storage is enabled. This means that for existing projects, pre-existing reviews will not have files stored unless you look at them again after Revision Storage is enabled.

### Enabling file storage

You can enable file revision storage on the 'Edit Project' page.

For an existing project:

1. Go to the [admin area](#) and click **Projects** (under 'Project Settings').
2. Click **Edit** (in the 'Crucible Settings' column) for an existing project.
3. Check **Store the contents of files in reviews** (under 'Content').
4. Click **Save**.

### Editing a project

Once a project is created, an administrator can edit the default values for settings such as repository, moderator, allowed reviewers, allowed groups and permissions scheme. These are the settings that are applied to any new

review created for the project.

### To edit project settings:

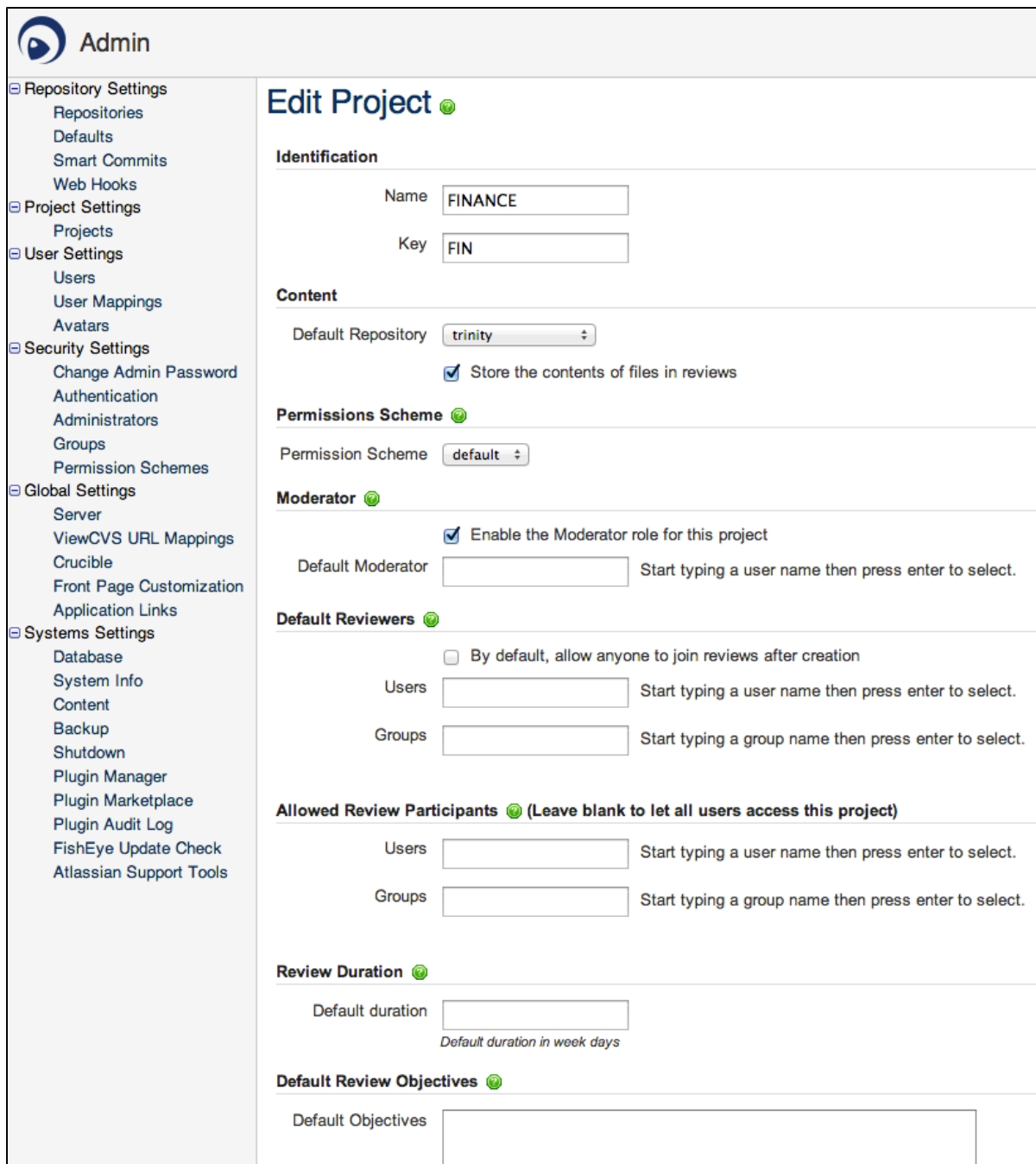
1. In the admin area, click **Projects** (under 'Project Settings').
2. In the list of projects, click **Edit** in the ('Crucible' column) for the required project.
3. Modify the available settings, as required:

|                             |  |
|-----------------------------|--|
| Identification              | <ul style="list-style-type: none"> <li>• <b>Name</b> – the plain language name as displayed in the Crucible interface.</li> <li>• <b>Key</b> – the project key used when giving reviews their unique code names. If you change the key for a project all open, and closed, reviews in the project are updated with the new key.</li> </ul>   |
| Content                     | <ul style="list-style-type: none"> <li>• <b>Default Repository</b> – the repository that contains the source code for this project. This is the repository that will be searched by default when you <a href="#">add files to a review</a>.</li> <li>• <b>Store the contents of files in reviews</b> – check to have the source files under review stored in the Crucible database, along with the comments and review data. This retains a copy of all the source files under review even if the repository is disconnected from Crucible. See <a href="#">Storing all revisions under review</a>.</li> </ul> |
| Permission Scheme           | <b>Permission Scheme</b> – the <a href="#">permission scheme</a> applied to this project. (A permission scheme controls who can perform particular actions, for example, create a review.)   |
| Moderator                   | <ul style="list-style-type: none"> <li>• <b>Enable the Moderator role</b> – clear to have reviews run by the author only. See <a href="#">Enabling the moderator role</a>.</li> <li>• <b>Default Moderator</b> – the user who will be set as the moderator for all new reviews created in the project. Leave this field blank to force the review's creator to choose a moderator. See <a href="#">Creating a review</a>.</li> </ul>   |
| Default Reviewers           | <ul style="list-style-type: none"> <li>• <b>By default, allow anyone to join reviews after creation</b> – sets the default state of the <b>Allow anyone to join</b> checkbox on the '<a href="#">Choosing reviewers</a>' screen.</li> <li>• <b>Users</b> – set the individual users to whom new reviews will be assigned by default.</li> <li>• <b>Groups</b> – set the groups to which new reviews will be assigned by default.</li> </ul>  |
| Allowed Review Participants | Use <b>Users</b> and <b>Groups</b> to restrict who can have a role ( <a href="#">author/creator/moderator/reviewer</a> ) in this project's reviews. These users will be the only ones whose names appear when a review is <a href="#">assigned</a> . Leave these fields blank to allow all users to have access.   |

|                           |  |
|---------------------------|--|
| Review Duration           | <b>Default duration</b> – the default length of time (in week days) for reviews in this project. If you leave the field blank, then no time restriction is applied. Reviews that are overdue will show up in red on the reviewer's <a href="#">dashboards</a> . Note that the review duration only affects the default due date that appears when <a href="#">creating a review</a> . The review's <a href="#">creator</a> or <a href="#">moderator</a> can specify a different date if they wish. |
| Default Review Objectives | <b>Default Objectives</b> – specify some text that will appear by default in the <b>Review Objectives</b> field of each new review. This text can be edited, as with any text in the Review Objectives text box. See <a href="#">Setting default review objectives</a> .   |

4. Add additional FishEye repositories to the project if required – click **Edit** in the 'FishEye content' column. See [How to add several repositories to one project in Crucible](#) for further information.

*Screenshot: The Edit Project screen in Crucible*



**Admin**

- Repository Settings
  - Repositories
  - Defaults
  - Smart Commits
  - Web Hooks
- Project Settings
  - Projects
- User Settings
  - Users
  - User Mappings
  - Avatars
- Security Settings
  - Change Admin Password
  - Authentication
  - Administrators
  - Groups
  - Permission Schemes
- Global Settings
  - Server
  - ViewCVS URL Mappings
  - Crucible
  - Front Page Customization
  - Application Links
- Systems Settings
  - Database
  - System Info
  - Content
  - Backup
  - Shutdown
  - Plugin Manager
  - Plugin Marketplace
  - Plugin Audit Log
  - FishEye Update Check
  - Atlassian Support Tools

## Edit Project

**Identification**

Name

Key

**Content**

Default Repository

☒ Store the contents of files in reviews

**Permissions Scheme**

Permission Scheme

**Moderator**

☒ Enable the Moderator role for this project

Default Moderator  Start typing a user name then press enter to select.

**Default Reviewers**

☐ By default, allow anyone to join reviews after creation

Users  Start typing a user name then press enter to select.

Groups  Start typing a group name then press enter to select.

**Allowed Review Participants (Leave blank to let all users access this project)**

Users  Start typing a user name then press enter to select.

Groups  Start typing a group name then press enter to select.

**Review Duration**

Default duration

Default duration in week days

**Default Review Objectives**

Default Objectives

### Enabling the moderator role

By default, Crucible projects do not have a moderator. This allows for a streamlined review handling process, where the review [author](#) is the sole person who starts and stops the review. However, you can enable the moderator role for Crucible projects, if required.

The moderator role can only be set by a Crucible administrator.

On this page:

- [Enabling the moderator role](#)
- [Removing the moderator role from an existing project](#)
- [Adding the moderator role to an existing project](#)

### Enabling the moderator role

The [moderator](#) role is configurable in Crucible as a per-project setting. By default, all reviews have an [author](#) and a [moderator](#). However, the moderator role can be disabled.

To enable or disable the moderator role on a project:

1. Go to the [admin area](#) in Crucible and click **Projects** (under 'Project Settings').



2. Click **Edit** (in the 'Crucible Settings' column) for the project.
3. Check **Enable the Moderator role** (under 'Moderator').

### Removing the moderator role from an existing project

When you remove the moderator role from an existing project, note that:

- Existing reviews, created before the change, will still retain the moderator they were assigned.
- Reviews created after the change will not have the moderator role.
- If the removal of the moderator conflicts with other Crucible project settings, a warning will be shown on the Projects page.

**i** If in doubt about the impact of removing the moderator role, you can create a new project, and set the moderator status while doing that.

### Adding the moderator role to an existing project

If you add the moderator role to an existing project, note that:

- Existing reviews, created before the change, will still have no moderator.
- Reviews created after the change will have the moderator role added.
- If the addition of the moderator role conflicts with other Crucible project settings, a warning will be shown on the Project page.

**i** If in doubt about the impact of adding the moderator role, you can create a new project, and set the moderator status while doing that.

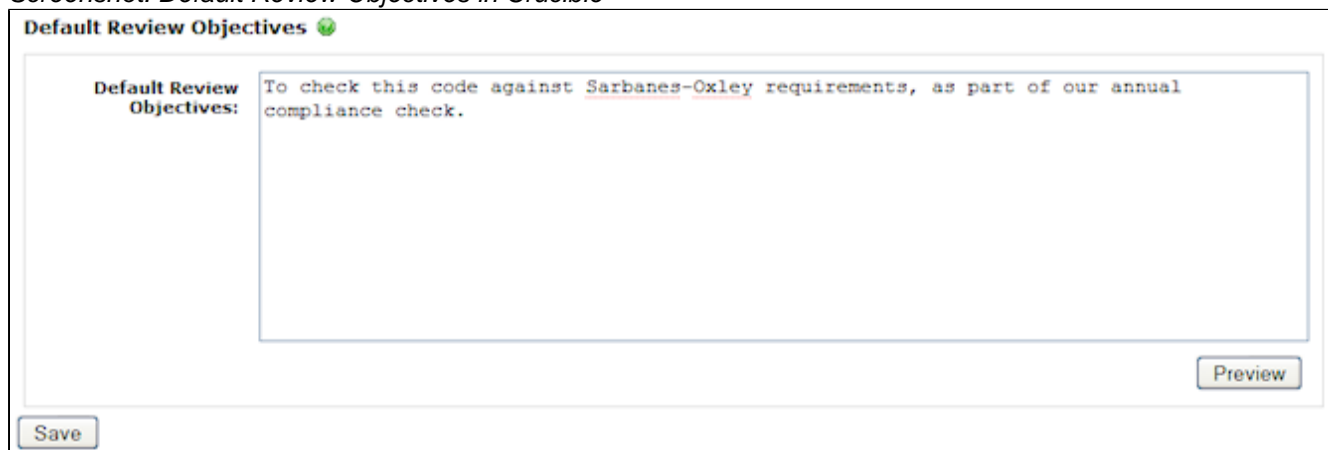
### Setting default review objectives

To set default review objectives for all the reviews in a given project:

1. Go to the [admin area](#) and click **Projects** (under 'Project Settings').
2. Click **Edit** (in the 'Crucible Settings' column) for the project.
3. In the **Default Objectives** text box specify the text that will appear by default in the **Review Objectives** field of each new review. This text will be able to be edited, as with any text in the Review Objectives text box.
4. Click **Save**.

See [Editing a project](#) for more information about project defaults.

*Screenshot: Default Review Objectives in Crucible*



The screenshot shows a web interface for setting default review objectives. At the top, the title 'Default Review Objectives' is followed by a green checkmark icon. Below this is a large text input field containing the text: 'To check this code against Sarbanes-Oxley requirements, as part of our annual compliance check.' To the left of the text field is the label 'Default Review Objectives:'. At the bottom left of the form is a 'Save' button, and at the bottom right is a 'Preview' button.

## Configuring repositories

The instructions for configuring your repositories differ, *depending on your Crucible setup*:

**If you are running Crucible with Atlassian's FishEye**, you can manage your repositories using FishEye. See the [FishEye documentation](#) for more information.

**If you are running Crucible alone**, you can manage your repositories using native repository access (bundled with Crucible):

1. Go to the Crucible [admin area](#).
2. Click **Repositories** (under 'Repository Settings'), and then **Native Repository Access** (if necessary).



3. Click **Add Existing...**
4. Refer to the following pages in the [FishEye documentation](#) for details about setting up particular repositories:
  - [CVS](#)
  - [Git](#)
  - [Mercurial](#)
  - [Perforce](#)
  - [Subversion](#)

Please also see the [What happens if I decide to stop using FishEye with Crucible](#) page for important information about light FishEye.




#### Crucible SCM plugins superseded by Native Repository Access

Crucible now ships with native repository access, which allows you to connect to repositories without a working version of FishEye. Crucible SCM plugins will still work, but we recommend that you stop using them in favour of native repository access. See [What happens if I decide to stop using FishEye with Crucible](#) for instructions.

## Setting up a Git repository in Crucible

This page describes how to use Crucible's native repository access to connect to an external Git repository. This native access uses a FishEye component (without requiring a FishEye license) which is why the description below refers to FishEye in places. See [What happens if I decide to stop using FishEye with Crucible](#) for more information.

Crucible interacts with Git repositories by executing the Git command in a separate process. Hence, the server running Crucible needs to have Git installed. Crucible indexes Git repositories by making a private, bare clone of your repository within Crucible's cache area. It uses this private clone for most Git operations.

 See the [Supported platforms](#) page for the version of Git that is required by the server running Crucible.

### Git repository setup

#### To add an external Git repository to FishEye:

1. Click the 'cog' menu in the FishEye header, and choose **Administration**. You will need to be logged in as an [administrator](#) to see this link.
2. Click **Repositories** (under 'Repository Settings').
3. Click **Add Existing...**
4. Complete the wizard:

#### Step 1

| Field           | Description  |
|-----------------|--|
| Repository Type | Select <b>Git</b> .  |
| Name            | Enter a name for this repository. The name may contain alphanumeric, underscore, '-' or '.' characters. This will be repository name in FishEye. |
| Description     | Enter a short description of this repository.  |

#### Step 2

| Field | Description |
|-------|-------------|
|-------|-------------|

|                     |   |
|---------------------|---|
| Repository Location | <p>Enter the URL describing the Git repository location. FishEye will clone this repository for indexing purposes. You can use any URL recognised by Git itself. FishEye recognizes the following URL's:</p> <pre>git://server_name[:port]/path_to_repository http://server_name[:port]/path_to_repository https://server_name[:port]/path_to_repository ssh://server_name[:port]/path_to_repository file://[hostname]/path_to_repository</pre> <p>Do not use spaces in your URL.</p> |
| Path                | <i>(optional)</i> Enter the path within the Git repository that you want FishEye to index. This lets you limit FishEye to indexing a subset of the complete Git repository.   |
| Block Size          | <i>(optional)</i> Enter how many commits you want FishEye to process in one batch. Larger values require more memory and increase the amount of work FishEye commits to the database in a single operation. The default is 400. The minimum being 1. This field only accepts positive whole numbers. Requires a repository restart.   |
| Command Timeout     | <i>(optional)</i> Enter the time that a single Git command is allowed to take to execute. Any command that exceeds this time is terminated and the operation will fail.   |
| Rename Detection    | <i>(optional)</i> Select which Git rename detection strategy FishEye will use to detect copy and move operations within the repository. Please refer to the <a href="#">Git documentation for more information</a> .  |

**Step 3**

| Field                          | Description   |
|--------------------------------|---|
| Store Diff Info                | Tick this checkbox, if you want FishEye to cache information about file diffs in its database. This is required for some FishEye features. See <a href="#">Configuring Repository Details</a> for more information on this setting. |
| Enable Repository After Adding | Tick this checkbox, to enable the repository after adding (i.e. when you click the ' <b>Add</b> ' button).  |

Screenshots: Adding a Git repository

Step 3
Step 2

### Limitations

When FishEye indexes a Git repository, it indexes by the available branches. As it processes the commits on a branch, FishEye will assign the commit to the branch it first sees the commit on. Commits are only indexed once so if a commit belongs to multiple branches, the commit will not be indexed against subsequent branches.

Furthermore, indexing of a Git repository can be slow when new branches are pushed. Performance in such cases can be improved by setting a command line option for FishEye. See this [KB page](#) for more information.

### Setting up a Perforce repository in Crucible alone

This page describes how to configure Crucible access to Perforce repositories.



#### Crucible SCM plugins superseded by Native Repository Access

Crucible now ships with native repository access, which allows you to connect to repositories without having FishEye integrated with your Crucible instance. Crucible SCM plugins will still work, but we recommend that you stop using them in favour of native repository access. See [What happens if I decide to stop using FishEye with Crucible](#) for instructions.

### Setting up a Perforce repository using native access

To set up native access to a Perforce repository:

1. Go to the Crucible [admin area](#).
2. Click **Repositories** (under 'Repository Settings'), and then **Native Repository Access** (if necessary).
3. Click **Add Existing...**
4. Refer to [Perforce](#) in the FishEye documentation for detailed information about completing the wizard.


### Setting up the Crucible Perforce SCM plugin

This section describes how to configure the [Crucible Perforce SCM plugin](#) to access Perforce repositories.

#### To set up Perforce in Crucible alone:

1. Ensure that the Perforce executable file is on the system path, in the Crucible server's [Environment Variables](#)
2. Start Crucible and go to the [admin area](#).
3. Click **Manage Add-ons** (under 'Systems Settings').
4. Find and click on the **Crucible Perforce SCM Plugin** (click **Show System Plugins**) and then click **Configure**.
5. Click **Add a repository** and complete the form:

|                          |  |
|--------------------------|--|
| <b>Name</b>              | Choose a unique name for the repository.   |
| <b>Repository Server</b> | Enter the base URL and port for the repository, for example:<br>example.com:666. |

|                          |  |
|--------------------------|--|
| <b>Repository Path</b>   | Add the path to your Perforce repository. For example: <code>//depot/code/example/main</code> .  |
| <b>Perforce Username</b> | Enter the username of the Perforce account that Crucible will use. (optional)<br> Note that this account should only have read-only access to the repository. |
| <b>Perforce Password</b> | Enter the password of the Perforce account that Crucible will use. (optional)  |

6. Click **Save**.

Your Perforce repository is now set up for Crucible. You will be able to select changesets from it when creating reviews.

#### Notes

- There is no 'initial scanning' required in this process, as Crucible's access to Perforce (when running alone) is strictly on-demand. Data is not indexed, hence there is no scanning.
- Crucible executes the Perforce command-line tool to enable this functionality.

## Setting up a Subversion repository in Crucible alone

This page describes how to configure Crucible access to Subversion repositories.



### Crucible SCM plugins superseded by Native Repository Access

Crucible now ships with native repository access, which allows you to connect to repositories without a working version of FishEye. Crucible SCM plugins will still work, but we recommend that you stop using them in favour of native repository access.

For more information, see

- [Advantages of Native Repository Access over lightSCM plugins](#)
- [What happens if I decide to stop using FishEye with Crucible](#)

### Setting up a Subversion repository using native access

To set up native access to a Subversion repository:

1. Go to the Crucible [admin area](#).
2. Click **Repositories** (under 'Repository Settings'), and then **Native Repository Access** (if necessary).
3. Click **Add Existing...**
4. Refer to [Subversion](#) in the FishEye documentation for detailed information about completing the wizard.

### Setting up the Crucible Subversion SCM plugin

This section describes how to configure the Crucible Subversion SCM plugin to access Subversion repositories. The plugin is bundled with Crucible.

#### To set up Subversion in Crucible alone:

1. Start Crucible and go to the [admin area](#).
2. Click **Manage Add-ons** (under 'Systems Settings').
3. Find and click on **Crucible Subversion SCM Plugin** (click **Show System Add-ons**) and then click **Configure**.
4. Click **Add a repository** and complete the form:

|                        |  |
|------------------------|--|
| <b>Name</b>            | Choose a unique name for the repository.   |
| <b>Repository Root</b> | Enter the repository root URL for the repository. See <a href="#">Finding your repository root</a> below for instructions on how to find this. |

|                        |   |
|------------------------|---|
| <b>Repository Path</b> | Add the path on the base URL where your repository. For example, if you used the root URL above, and the full path to your Subversion instance is 'http://svn.example.com/svn5/', you would enter 'svn5' into this field. |
| <b>SVN Username</b>    | <p>Enter the username of the Subversion account that Crucible will use.</p> <p>Note that this account should only have read-only access to the repository.</p>  |
| <b>SVN Password</b>    | Enter the password of the Subversion account that Crucible will use.  |

5. Click **Save**.

Your Subversion repository is now set up for Crucible. You will be able to select changesets from it when creating reviews.

Note that there is no 'initial scanning' required in this process, as Crucible's access to Subversion (when running alone) is strictly on-demand. Data is not cached, hence scanning is not required.

#### Finding your repository root

Run the following command:

```
svn info SVN_URL
```

where SVN\_URL is the complete URL of the repository you want to add.

You will get something like the following:

```
>svn info http://svn.example.com/svn5/
Path: svn5
URL: http://svn.example.com/svn5/
Repository Root: http://svn.example.com/
Repository UUID: ce062a09-193b-427a-a7b3-a85007076e5d
Revision: 83
Node Kind: directory
Last Changed Author: ryan
Last Changed Rev: 83
Last Changed Date: 2009-05-07 10:48:41 +1000 (Thu, 07 May 2009)
```

Next to "Repository Root" is the URL you should define as your repository root. The path will be whatever is remaining.

### Enabling reviews from the server file system in Crucible

You can set up the server file system to be a code repository for Crucible. You will be able to browse files and directories on the hard drive and select files from it when creating reviews.

#### To set up the file system as a code repository in stand-alone Crucible:

1. Go to the [admin area](#) in Crucible.
2. Click **Manage Add-ons** (under 'Systems Settings').
3. Find and click on **Crucible FileSystem SCM Plugin** (click **Show System Plugins**, then click **Enable** if that is displayed).

4. Click **Configure** then **Add a repository**.
5. Complete the form:

|                  |   |
|------------------|---|
| <b>Name</b>      | Choose a unique name for the repository.                        |
| <b>Base Path</b> | Choose the lowest level of directory that Crucible will access. |

6. Click **Save**.

## Setting up a repository via FishEye

To use FishEye to access an external source control repository, such as Subversion or Git, for Crucible, see the FishEye documentation for how to [add a repository](#).

- [CVS](#)
- [Git](#)
- [Mercurial](#)
- [Perforce](#)
- [Subversion](#)



### Building index and cache

FishEye needs to build an index and cache of the contents of your repository, so some information will not appear in FishEye until this is complete. This may take some time to complete, depending on the size of the repositories.



We recommend you access the repository with a user that has only **read** access to the repository.

## Setting up users and security

User management and security settings are covered in the FishEye documentation. See:

- [Managing users and groups in FishEye](#)
- [Configuring FishEye Security](#)

### Other related security resources

- [Configuring User Managed Mappings](#)
- [Creating a permission scheme](#)
- [Creating a user](#)
- [How to Report a Security Issue](#)
- [Security Advisory Publishing Policy](#)
- [Security Patch Policy](#)
- [Severity Levels for Security Issues](#)

## Creating a user



Some user management functions are identical in both Crucible and FishEye. See more [user management documentation](#) in the [FishEye documentation](#).

There are two types of user accounts:

- 'Built-in' user accounts — these are stored in the local database for FishEye/Crucible.
- 'External' user accounts — these are stored in an external directory (e.g. LDAP), if configured. See [Configuring External Authentication Sources](#).




### Note regarding external directories:

- New users can only be added if they already exist in the external directory. Your external directory will not be modified.
- If you have enabled 'auto-add' for your [external directory](#), users who don't exist locally in FishEye/Crucible will be automatically added the first time they log in to Crucible.

- You can't use JIRA OnDemand to manage your Crucible or FishEye users.

#### To add a new user:

- In the [admin area](#), click **Users** under 'User Settings'.
- Click **Add user** at the bottom of the screen.
- Configure the following settings:

|              |  |
|--------------|--|
| Username     | Type the user's login name. You can use the following characters: <ul style="list-style-type: none"> <li>letters and numbers</li> <li>hyphen ('-')</li> <li>underscore ('_')</li> <li>'at' sign ('@')</li> </ul> |
| Display name | The user's display name appears in the user interface.   |
| Email        | The email address is where the user will receive <a href="#">notifications</a> .   |
| Auth Type    | Select either <b>built-in</b> or the appropriate <a href="#">external directory</a> where the user identity will be stored.  |
| Password     | (For built-in users only)  The user can easily <a href="#">change their own password</a> later.                               |

- Click **Add**.

## Add New User

### Information about the new user

Username

Display name

Email

Auth Type

Password

Confirm Password

[Cancel](#)

## Permissions

A *permission* is the ability to perform a particular action in Crucible, e.g. 'Create Review'.

Permissions in Crucible are managed through the use of permission schemes.

A *permission scheme* assigns particular [permissions](#) to any or all of the following:

- Particular [Users](#).
- Particular [Groups](#).
- All logged-in users.
- [Anonymous Users](#)

- People in particular [Review Roles](#), such as:
  - [Author](#)
  - [reviewer](#)
  - [creator](#)
  - [moderator](#)

The scheme's permissions will apply to all reviews belonging to the [project\(s\)](#) with which the scheme is associated.

You can create as many permission schemes as you wish. Each permission scheme can be associated with many projects or just one project, allowing you to tailor appropriate permissions for individual projects as required.

#### Further reading

- [Creating a permission scheme](#)
- [Associating a permission scheme with a project](#)
- [Agile permissions schemes in Crucible](#)

## Creating a permission scheme

This page contains information on how to create a permission scheme in Crucible.

On this page:

- [Creating a permission scheme](#)
- [Editing a permission scheme](#)
- [List of Crucible permissions](#)

#### Creating a permission scheme

##### To create a permission scheme:

1. In the [admin area](#), click **Permission Schemes**, under 'Security Settings'.
2. Under 'Add a new permission scheme', enter a **Name** to uniquely identify your new scheme.
3. Click **Add**. Your new permission scheme will have the default assignees shown in the [permissions table](#) below.
4. If required, edit this permission scheme, as described below.

 Next step: see [Associating a permission scheme with a project](#).

*Screenshot: Adding a Permission Scheme*

#### Add a new permission scheme

Name

#### Editing a permission scheme

##### To edit a permission scheme:


1. In the [admin area](#), click **Permission Schemes** under 'Security Settings'.
2. Click **edit** for the scheme you wish to change.
3. Click **edit** for the permission you wish to modify, and choose the appropriate assignee(s) for this permission:

|                                  |  |
|----------------------------------|--|
| <b>Allow Anonymous users</b>     | Assign this permission to <a href="#">anonymous users</a>        |
| <b>Allow All logged in users</b> | Assign this permission to all logged-in users                    |
| <b>Individuals</b>               | Enter a username to assign this permission to a particular user. |



|                            |   |
|----------------------------|---|
| <b>Groups</b>              | Enter a group name to assign this permission to a particular group of users.  |
| <b>Review Participants</b> | Select check boxes to assign this permission to users who belong to any of the <b>Reviewer / Creator / Author / Moderator</b> participants. |

Click **Save** when you are done.

 **Note:** for ongoing ease of management, it is recommended that you grant permissions to [groups](#) of [participants](#) rather than to individual users.

4. Click **Save**.

*Screenshot: Editing the 'Close' permission*

## Edit User Action

**Close:** *Ability to close a review once it has been summarized.*

☐ Allow All logged in users

Individuals  Start typing a user name then press enter to select.

☒ Seb Ruiz

Groups  Start typing a group name then press enter to select.

Review Participants ☒ Reviewer ☒ Creator ☒ Author ☒ Moderator

### List of Crucible permissions

The following permissions are available:

| Permission      | Description   | Default Assignees  |
|-----------------|---|--|
| <b>Abandon</b>  | Ability to abandon (i.e. cancel) a review.                                  | <a href="#">Creator</a><br><a href="#">Author</a> <a href="#">Moderator</a>                                |
| <b>Approve</b>  | Ability to approve a review (i.e. issue it to the reviewers).               | <a href="#">Creator</a><br><a href="#">Author</a> <a href="#">Moderator</a>                                |
| <b>Close</b>    | Ability to close a review once it has been summarised.                      | <a href="#">Creator</a><br><a href="#">Author</a><br><a href="#">Reviewer</a><br><a href="#">Moderator</a> |
| <b>Comment</b>  | Ability to add or remove a comment to or from a review.                     | <a href="#">Creator</a><br><a href="#">Author</a><br><a href="#">Reviewer</a><br><a href="#">Moderator</a> |
| <b>Complete</b> | Ability of a reviewer to change their individual review status to Complete. | <a href="#">Reviewer</a>   |
| <b>Create</b>   | Ability to create a review.   | All logged-in users  |

|                            |   |  |
|----------------------------|---|--|
| <b>Delete</b>              | Ability to delete a review.   | Creator<br>Author Moderator  |
| <b>Edit Review Details</b> | Ability to edit a review's details and change the <a href="#">set of revisions</a> being reviewed.            | Creator<br>Author<br>Reviewer<br>Moderator   |
| <b>Re-Open</b>             | Ability to re-open a closed or abandoned review.  | Creator<br>Author<br>Reviewer<br>Moderator   |
| <b>Recover</b>             | Ability to resurrect an abandoned (i.e. cancelled) review.  | Creator<br>Author<br>Reviewer<br>Moderator   |
| <b>Reject</b>              | Ability to reject a review submitted for approval (i.e. prevent it from being issued to reviewers).           | Creator<br>Author Moderator  |
| <b>Submit</b>              | Ability to submit a review for approval (i.e. request that the review be issued to the reviewers).            | Creator<br>Author Moderator  |
| <b>Summarise</b>           | Ability to summarise a review. (Normally this would be done after all reviewers have completed their review.) |  |
| <b>Uncomplete</b>          | Ability of a reviewer to change their individual review status from Complete to Uncomplete.                   | Reviewer   |
| <b>View</b>                | Ability to view a review. (People without this permission will not know that the review exists.)              | Anonymous users<br>All logged-in users<br>Creator<br>Author<br>Reviewer<br>Moderator |

## Associating a permission scheme with a project


This page explains how to associate a permission scheme with a Crucible project and show details of the default permission schemes included with Crucible.

On this page:

- [Associating a permission scheme with a Crucible project](#)
- [Overview of the permission schemes bundled with Crucible](#)
  - [Default permission scheme settings](#)
  - [Agile permission scheme settings](#)
- [Related links](#)

### Associating a permission scheme with a Crucible project

#### To associate a permission scheme with a project:

1. In the [admin area](#), click **Projects** (under 'Project Settings').
2. Find the project you wish to associate with your permission scheme, and click **Edit** (in the 'Crucible Settings' column).
3. Under 'Permissions Scheme', choose a scheme from the **Permission Scheme** list.
  -  You will be shown a list of the schemes that have been created in Crucible. You can [create a new permission scheme](#) if necessary.

4. Click **Save**.**Overview of the permission schemes bundled with Crucible**

Crucible comes with two permission schemes. 'Default' and 'Agile'. The following tables show the default settings in detail; note that these can be easily edited by admin users to suit your needs.

**Default permission scheme settings**

This table shows the various permissions and which user groups have them by default.

| Permission          | Anonymous | All Logged In | Individuals | Groups | Review Roles  |
|---------------------|-----------|---------------|-------------|--------|---|
| Abandon             | false     | false         | None        | None   | Creator, Moderator  |
| Approve             | false     | false         | None        | None   | Moderator   |
| Close               | false     | false         | None        | None   | Moderator   |
| Comment             | false     | false         | None        | None   | Reviewer, Creator, Author, Moderator                        |
| Complete            | false     | false         | None        | None   | Reviewer  |
| Create              | false     | true          | None        | None   | No roles.<br>All logged-in users                            |
| Delete              | false     | false         | None        | None   | Creator, Moderator  |
| Edit Review Details | false     | false         | None        | None   | Creator, Moderator  |
| Recover             | false     | false         | None        | None   | Creator, Moderator  |
| Reject              | false     | false         | None        | None   | Moderator   |
| Re-Open             | false     | false         | None        | None   | Moderator   |
| Submit              | false     | false         | None        | None   | Creator   |
| Summarize           | false     | false         | None        | None   | Moderator   |
| Uncomplete          | false     | false         | None        | None   | Reviewer  |
| View                | false     | true          | None        | None   | Reviewer, Creator, Author, Moderator<br>All logged-in users |

 The default permission scheme has changed since Crucible 1.6.

**Agile permission scheme settings**

This table shows the various permissions and which user groups have them by default.

| Permission | Anonymous | All Logged In | Individuals | Groups | Review Roles               |
|------------|-----------|---------------|-------------|--------|----------------------------|
| Abandon    | false     | false         | None        | None   | Creator, Author, Moderator |

|                     |       |       |      |      |  |
|---------------------|-------|-------|------|------|--|
| Approve             | false | false | None | None | Creator, Author, Moderator   |
| Close               | false | false | None | None | Reviewer, Creator, Author, Moderator   |
| Comment             | false | false | None | None | Reviewer, Creator, Author, Moderator   |
| Complete            | false | false | None | None | Reviewer   |
| Create              | false | true  | None | None | No roles.<br>All logged-in users   |
| Delete              | false | false | None | None | Creator, Author, Moderator   |
| Edit Review Details | false | false | None | None | Reviewer, Creator, Author, Moderator   |
| Recover             | false | false | None | None | Reviewer, Creator, Author, Moderator   |
| Reject              | false | false | None | None | Creator, Author, Moderator   |
| Re-Open             | false | false | None | None | Reviewer, Creator, Author, Moderator   |
| Submit              | false | false | None | None | Creator, Author, Moderator   |
| Summarize           | false | false | None | None | No roles.  |
| Uncomplete          | false | false | None | None | Reviewer   |
| View                | true  | true  | None | None | Reviewer, Creator, Author, Moderator<br><br>Anonymous users<br><br>All logged-in users |

#### Related links

- [Creating a permission scheme](#)

## Agile permissions schemes in Crucible

This page contains information about using and editing Agile permission schemes in Crucible.

### Understanding the Agile Permissions Scheme

[Agile development](#) teams may not want to use the default Crucible permission schemes that require one person to approve or summarise reviews. Crucible ships with a pre-defined Agile permission scheme. By Agile, we mean permission schemes that have no [moderator](#) and very liberal permissions, suited to Agile or self-organising teams.

To use the Agile permissions scheme when creating a project, simply select **agile** from the **Permissions Scheme** list on the 'Edit Project' screen.

#### Considerations

**i** If you began your installation of Crucible with Crucible 2.1 or later, then this permission scheme will appear in the list of permission schemes in the administration menu.

**!** If you have upgraded from an earlier version of Crucible (pre Crucible 2.0), then the Agile permission may not appear by default. However, you can still create the equivalent by [disabling the moderator](#) when creating projects, allowing freer access to summarising, closing and generally tending to Crucible reviews.

**i** If you [disable the moderator role](#) on the Edit Project screen, then Crucible will check the current permission scheme. If the current permission scheme requires a moderator, a warning will be shown and you will be prompted to create a new permission scheme which will be called 'Agile' (or Agile-X if the name Agile already exists, where X is a number appended to the scheme name). The new permissions scheme will not require a moderator to carry out any actions.

#### Screenshot: Warnings on Permission Schemes that Require a Moderator

**Project Permissions Scheme**

Permission Scheme: default

The permission scheme "default" requires the Moderator role, which has been disabled.

All existing permission schemes require the Moderator role. [Create an "unmoderated" permission scheme.](#)

**Moderator**

☐ Enable the Moderator role for this project

## Migrating to an external database

This page contains information about migrating Crucible from its default embedded HSQL database to an external database. Advantages of using a database other than the embedded HSQL database include:

- **Improved Protection Against Data Loss:** The Crucible built-in database, running [HSQLDB](#) is somewhat susceptible to data loss during system crashes. External databases are generally more resistant to data loss during a system crash. HSQLDB is not supported in production environments and should only be used for evaluation purposes.
- **Performance & Scalability:** if you have many users on your Crucible instance, running the database on the same server as FishEye may slow it down. When using the embedded database, the database will always be hosted and run on the same server as Crucible.
- **Data Stored in the Crucible Database:** The Crucible database stores all information besides the cache for repository scans. This means all reviews, comments, review states, user data and user preferences information.

#### On this page:

- [Supported Databases](#)
- [Support for Other Databases](#)
- [Notes](#)

#### Supported Databases

You can use a number of alternatives to the built-in HSQLDB database for storing FishEye and Crucible's relational data. The supported alternative databases are listed on the [Supported platforms](#) page. Please note, that only the database versions listed on that page are supported.

The pages linked below outline the steps required to switch to an external database:

- [Migrating to MySQL](#)
- [Migrating to Oracle](#)
- [Migrating to PostgreSQL](#)
- [Migrating to SQL Server](#)

## Support for Other Databases

If you are using another database product that you would like to see supported, please create a [JIRA issue](#) for it under the Crucible project.

## Notes

Crucible uses Read Committed transaction isolation. There is no requirement to configure this explicitly when setting up an external database - Crucible will configure the transaction isolation when connecting to the database.

## Migrating to MySQL

This page describes how to use FishEye/Crucible with both MySQL Enterprise Server and MySQL Community Server. Note that when they are used together, FishEye and Crucible share the same external database.

To switch to a MySQL database, install MySQL and then follow the steps below. Please note that during the migration of database servers, the FishEye/Crucible instance will not be available to users or to external API clients.

 Note that for FishEye 2.9+, the JDBC driver for MySQL is *not bundled* with FishEye/Crucible (due to [licensing restrictions](#)).



### MySQL 5.6.x Compatibility

For MySQL 5.6, FishEye requires 5.6.11 or later.

## Prerequisites

To start with:

1. Install a *supported version* of MySQL. Check the [Supported platforms](#) page for the exact versions that are supported.
2. Download and install the JDBC driver, if necessary. Note that for FishEye 2.9+, the JDBC driver for MySQL is *not bundled* with FishEye/Crucible (due to [licensing restrictions](#)).
  - a. Download the **MySQL Connector/J JDBC driver** from the [MySQL download website](#).
  - b. Expand the downloaded **zip/tar.gz file**.
  - c. Copy the `mysql-connector-java-x.y.zz-bin.jar` file to your `FISHEYE_INST/lib` directory. If the `lib/` directory doesn't already exist, you will need to create it.
  - d. Restart FishEye/Crucible.

### On this page:

- [Prerequisites](#)
- [Step 1. Create a MySQL database](#)
- [Step 2. Configure FishEye/Crucible to use MySQL, and migrate data](#)

### Related pages:

- [Migrating to PostgreSQL](#)
- [Migrating to Oracle](#)
- [Migrating to SQL Server](#)
- [Migrating to an external database](#)
- [Troubleshooting Databases](#)

## Step 1. Create a MySQL database

Set up a MySQL database as follows:

- Configure the database to use the InnoDB storage engine
- Create a database on MySQL for FishEye/Crucible to use
- Create a FishEye user on the database
- Configure the database to use `utf8` character set encoding
- Configure the database to use `utf8_bin` collation (to ensure case sensitivity).

Here is an example of how to do that. When FishEye/Crucible and MySQL run on the same machine (accessible through `localhost`), issue the following commands (replacing `fisheyeuser` and `password` with you own values):

```
mysql> SET GLOBAL storage_engine = 'InnoDB';
mysql> CREATE DATABASE fisheye CHARACTER SET utf8 COLLATE utf8_bin;
mysql> GRANT ALL PRIVILEGES ON fisheye.* TO 'fisheyeuser'@'localhost'
IDENTIFIED BY 'password';
mysql> FLUSH PRIVILEGES;
mysql> QUIT
```



For MySQL 5.6 and later, replace the first statement (`SET GLOBAL storage_engine = 'InnoDB'`) with the following:

```
mysql> SET GLOBAL default_storage_engine = 'InnoDB';
```

This creates an empty MySQL database with the name `fisheye`, and a user that can log in from the host that FishEye is running on who has full access to the newly created database. In particular, the user should be allowed to create and drop tables, indexes and other constraints.

You will also need to set the `Server Characterset` to `utf8`. This can be done by adding the following in `my.ini` for Windows or `my.cnf` for other operating systems (create the file at `/etc/my.cnf` if it doesn't already exist). It has to be declared in the `Server` section, which is the section after `[mysqld]`:

```
[mysqld]
character-set-server=utf8
```

You'll need to restart MySQL for that change to take effect. Now use the `status` command to verify database character encoding information:

```
mysql> use fisheye;
mysql> status;
```

*Screenshot: Using the MySQL status command*

```
mysql> status
-----
/Applications/xampp/xamppfiles/bin/mysql Ver 14.12 Distrib 5.0.67, for apple-da
rwin8.11.1 (i686) using EditLine wrapper

Connection id:          5764
Current database:
Current user:           root@localhost
SSL:                   Not in use
Current pager:         stdout
Using outfile:         ''
Using delimiter:       ;
Server version:        5.0.67 Source distribution
Protocol version:      10
Connection:            Localhost via UNIX socket
Server characterset:   utf8
Db characterset:       utf8
Client characterset:   latin1
Conn. characterset:    latin1
UNIX socket:           /Applications/xampp/xamppfiles/var/mysql/mysql.sock
Uptime:               29 days 1 hour 34 min 56 sec

Threads: 6 Questions: 49238134 Slow queries: 0 Opens: 460445 Flush tables: 1
Open tables: 4 Queries per second avg: 19.607
-----

mysql> 
```



Both the server and database character set must be UTF-8. You may not initially notice a problem because of the [character set overlap](#) but this is indeed a requirement. We've verified that when using a charset such as Swedish 7 bit as the server charset and UTF-8 as the database charset data corruption is easy to reproduce and obvious. This proves that the server character set is as important and that data corruption is possible when there is a charset mismatch. We absolutely cannot suggest a configuration where the server charset and database charset are anything other than UTF-8.

## Step 2. Configure FishEye/Crucible to use MySQL, and migrate data

In order to migrate to a different database backend, you must create a backup of sql data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye/Crucible administration console, which streamlines the process, or via the command line tool which FishEye/Crucible provides.

### Option 1: Migrate using the UI (FishEye/Crucible Administration)

1. Navigate to the Database page in FishEye/Crucible's Administration console.

To log in to the Admin area, you can either:

- click **Administration** at the foot of the page.
- navigate to <http://HOSTNAME:8060/admin/>, where HOSTNAME is the name of the server on which you installed Fisheye.

Once logged in as an [administrator](#) you can also get to the Admin area by clicking the 'cog' menu in the FishEye/Crucible header, and choosing **Administration**.

2. Choose **Edit > Test Connection** to verify that FishEye/Crucible can log in to the database.
3. Select **MySQL** from the database type.
4. Fill in the appropriate fields, replacing the host, port, database name, username and password using the same connection details as used when creating the MySQL database in Step 1 above.
5. Click **Test Connection** to validate the values.

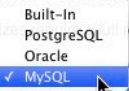
*Screenshot: Testing the connection*




### Database Configuration

To switch to a different database, specify the database's configuration settings in the form below and use the Test Connection button to verify that the database can be used. We are currently connected to the Oracle database at jdbc:oracle:thin:@localhost:1521:xe.

Changes to connection pool settings will take effect after the application restarts before the new settings will take effect.

Type: 

Driver Location: 

URL:

User Name:

Password:

Minimum Pool Connections:

Maximum Pool Connections:

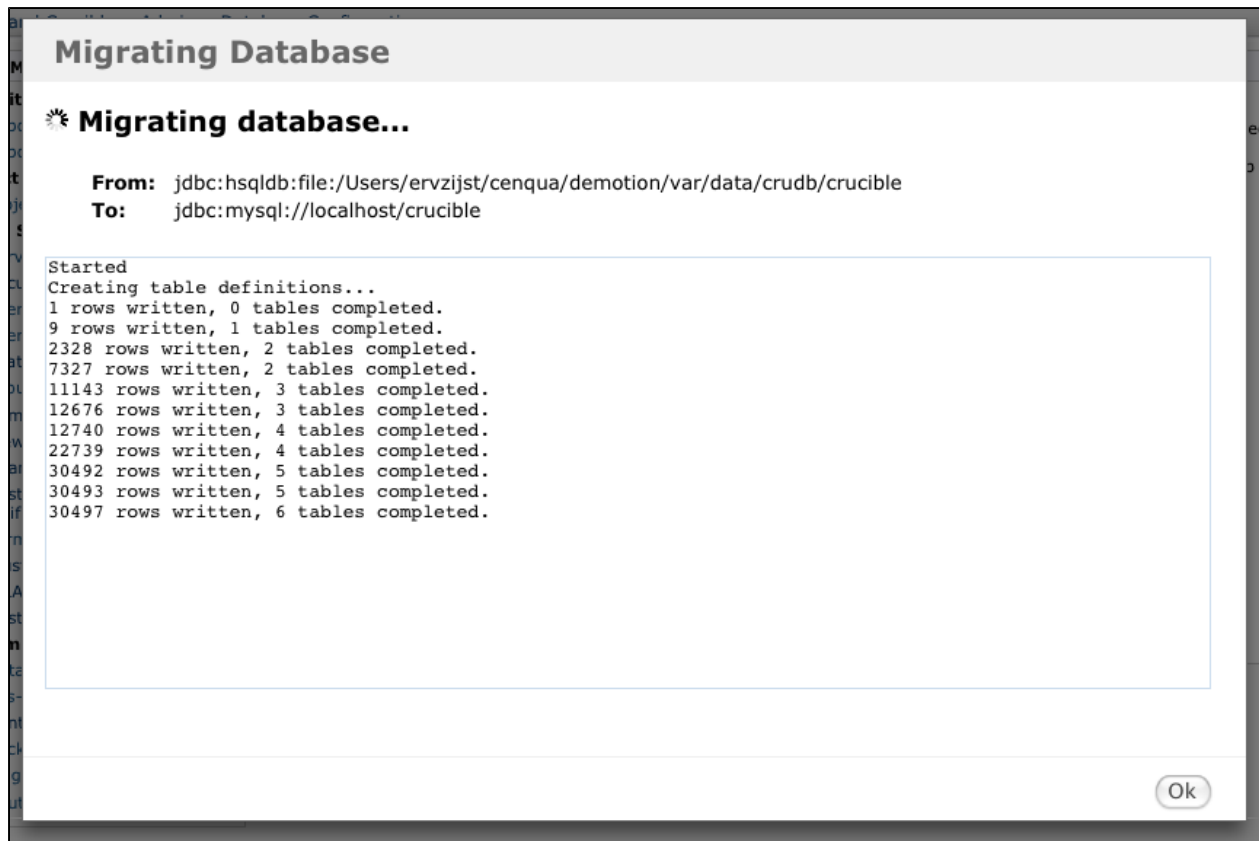
Parameters:

If this fails, verify that you have the MySQL JDBC driver `.jar` file in the classpath (see [Prerequisites](#) section above for instructions on how to install the driver). Also, ensure that the database user can log in to the database from the machine that FishEye/Crucible is running on and that all the required privileges are present.

6. Click **Save & Migrate** to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye/Crucible will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration.

## Screenshot: Migrating the database

**Option 2: Migrate using the command line**

1. Create a backup of the `sql` data from the FishEye/Crucible instance. Read [Backing up and restoring FishEye data](#) and [Backing up and restoring Crucible data](#) for information on how to create a backup.
2. Run the following command from the <FishEye installation directory>/bin directory:

```
$ ./fisheyectl.sh restore --sql \  
    --file /path/to/backup.zip \  
    --dbtype mysql \  
    --jdbcurl jdbc:mysql://hostname/dbname \  
    --username crucible \  
    --password password
```

3. When the import is complete, FishEye/Crucible can be started and will use MySQL.

**Migrating to Oracle**

To switch to an Oracle database, install Oracle and follow the steps below. When they are used together, FishEye and Crucible share the same external database.

Please note that during the migration of database servers, the FishEye/Crucible instance will not be available to users or to external API clients.

**i** Oracle support for FishEye/Crucible and Crucible was introduced in version 2.5.0. In order to migrate to Oracle, your instance must be *currently running* at least version 2.5. If you are running an older version, then you will be required to first upgrade FishEye/Crucible and then migrate.

**On this page:**

- [Step 1. Install and Create a Oracle Database](#)
- [Step 2. Configure FishEye/Crucible to use Oracle, and Migrate Data](#)

**Related pages:**

- [Migrating to MySQL](#)
- [Migrating to PostgreSQL](#)
- [Migrating to SQL Server](#)
- [Migrating to an external database](#)
- [Troubleshooting Databases](#)

**Step 1. Install and Create a Oracle Database**

1. The JDBC drivers for Oracle are bundled with FishEye/Crucible. Skip to step 2 if this meets your needs. If you want to install a specific, different version of the bundled JDBC driver, download the download the Oracle JDBC driver .jar file from the Oracle website (<http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html>) and copy the .jar file to your FISHEYE\_INST/lib directory (create the lib/ directory if it doesn't already exist). Move the existing JDBC .jar file to another location (and back it up). Restart FishEye/Crucible to have it pick up the new driver.
2. Because creating a database with Oracle is a complex process, we recommend speaking to your resident DBA for creation of a new database for usage with Crucible. We *highly* recommend installing Oracle with the AL32UTF8 encoding otherwise you may see encoding issues in the product.

**Permissions**

Ensure the database user has CREATE TABLE, CREATE SEQUENCES and CREATE TRIGGER permissions in addition to the read/write permissions to the database.

**Step 2. Configure FishEye/Crucible to use Oracle, and Migrate Data**

In order to migrate to a different database backend, you must create a backup of sql data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye/Crucible administration console, which streamlines the process, or via the command line tool which FishEye/Crucible provides.

**Option 1: Migrate using the UI (FishEye/Crucible Administration)**

1. Navigate to the Database page in FishEye/Crucible's Administration console.

To log in to the Admin area, you can either:

- click **Administration** at the foot of the page.
- navigate to <http://HOSTNAME:8060/admin/>, where HOSTNAME is the name of the server on which you installed Fisheye.

Once logged in as an **administrator** you can also get to the Admin area by clicking the 'cog' menu in the FishEye/Crucible header, and choosing **Administration**.

2. Then choose **Edit > Test Connection** to verify that FishEye/Crucible can log in to the database.
3. Select **Oracle** from the database type
4. Fill in the appropriate fields, replacing the host, port, database name, username and password using the same connection details as used when creating the Oracle database in Step 1 above.
5. Click on **Test Connection** to validate the values

*Screenshot: Testing the Connection*

### Database Configuration

To switch to a different database, specify the database's configuration settings in the form below and use the Test Connection button to verify that the database can be used. We are currently connected to the PostgreSQL database at jdbc:postgresql://localhost/crucible.

Changes to connection pool settings will take effect after the application is restarted before the new settings will take effect.

Type: Built-In PostgreSQL **Oracle** MySQL

Driver Location: jdbc:oracle:thin:@localhost:1521:crucible

URL: jdbc:oracle:thin:@localhost:1521:crucible

User Name: crucible

Password: \*\*\*\*\*

Minimum Pool Connections: 5

Maximum Pool Connections: 20

Parameters:

Cancel Save & Migrate Test Connection Save

If this fails, verify that you have the Oracle JDBC driver `.jar` file in the classpath (by placing the `.jar` file in `FISHEYE_INST/lib`). Also, ensure that the database user can log in to the database from the machine that FishEye/Crucible is running on and that all the required privileges are present.

- Click **Save & Migrate Data** to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye/Crucible will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration.

*Screenshot: Migrating the Database*

### Migrating Database

**Database migration successful.**

**From:** jdbc:hsqldb:file:/Users/seb/dev/crucible/fe/output/dist\_inst/var/data/crudb/crucible  
**To:** jdbc:oracle:thin://localhost:1521/crucible

507 rows written, 31 tables completed.  
 511 rows written, 33 tables completed.  
 512 rows written, 33 tables completed.  
 514 rows written, 34 tables completed.  
 529 rows written, 35 tables completed.  
 531 rows written, 37 tables completed.  
 532 rows written, 37 tables completed.  
 532 rows written, 39 tables completed.  
 533 rows written, 39 tables completed.  
 541 rows written, 40 tables completed.  
 543 rows written, 41 tables completed.  
 546 rows written, 43 tables completed.  
 547 rows written, 43 tables completed.  
 558 rows written, 44 tables completed.  
 572 rows written, 46 tables completed.  
 Adding database constraints...  
 Updating database to latest version...  
 Switching to new database at: jdbc:oracle:thin://localhost:1521/crucible...  
 Complete

Ok

**Option 2: Migrate using the command line**

1. Create a backup of the **sql data** from the FishEye/Crucible instance. Information on how to create a backup can be found at [Backing up and restoring FishEye data \ Backing up and restoring Crucible data](#)
2. Run the following command from the <FishEye installation directory>/bin directory:

```
$ ./fisheyectl.sh restore --sql \  
    --file /path/to/backup.zip \  
    --dbtype oracle \  
    --jdbcurl jdbc:oracle:thin:@hostname:port:dbname \  
    --username crucible \  
    --password password
```

3. When the import is complete, FishEye/Crucible can be started and will use Oracle.

**Migrating to PostgreSQL**

To switch to a PostgreSQL database, install PostgreSQL and follow the steps below. When they are used together, FishEye and Crucible share the same external database.

Please note that during the migration of database servers, the FishEye/Crucible instance will not be available to users or to external API clients.

**On this page:**

- [Step 1. Install and Create a PostgreSQL Database](#)
- [Step 2. Configure FishEye/Crucible to use PostgreSQL, and Migrate Data](#)

**Related pages:**

- [Migrating to MySQL](#)
- [Migrating to Oracle](#)
- [Migrating to SQL Server](#)
- [Migrating to an external database](#)
- [Troubleshooting Databases](#)

**Step 1. Install and Create a PostgreSQL Database**

1. The JDBC drivers for PostgreSQL are bundled with FishEye/Crucible. Skip to [Step 2](#) if this meets your needs. If you want to install a specific, different version of the bundled JDBC driver, download the download the PostgreSQL JDBC driver .jar file from the [PostgreSQL website](#) and copy the .jar file to your FISHEYE\_INST/lib directory (create the lib/ directory if it doesn't already exist). Move the existing JDBC .jar file to another location (and back it up). Restart FishEye/Crucible to have it pick up the new driver.
2. Create a new database user (replacing 'username' and 'password' with the appropriate values):

```
$ psql  
> create user username password 'password';
```

3. Create a UTF-8 database and make the newly created user the owner:

```
> create database crucible ENCODING 'UTF-8' OWNER username;
```

4. Make sure the user has full access to the database:

```
> grant all on database crucible to username;
```

## Step 2. Configure FishEye/Crucible to use PostgreSQL, and Migrate Data

In order to migrate to a different database backend, you must create a backup of SQL data, configure the database and finally import the data via a backup restoration process. This can be done from either the FishEye/Crucible administration console, which streamlines the process, or via the command line tool which FishEye/Crucible provides.

### Option 1: Migrate using the UI (FishEye/Crucible Administration)

1. Navigate to the Database page in FishEye/Crucible's Administration console.

To log in to the Admin area, you can either:

- click **Administration** at the foot of the page.
- navigate to <http://HOSTNAME:8060/admin/>, where `HOSTNAME` is the name of the server on which you installed Fisheye.

Once logged in as an **administrator** you can also get to the Admin area by clicking the 'cog' menu in the FishEye/Crucible header, and choosing **Administration**.

2. Choose **Edit > Test Connection** to verify that FishEye/Crucible can log in to the existing database.
3. Select **PostgreSQL** from the database **Type**.
4. Fill in the appropriate fields, using the same connection details as used when creating the PostgreSQL database in Step 1 above.
  - a. **Driver Location:** either your own PostgreSQL JDBC or the **Bundled** one that came with FishEye
  - b. **URL:** create this field by replacing the host, port, and database name with your own (i.e. `jdbc:postgresql://localhost:5432/<dbname>` e.g. `jdbc:postgresql://localhost:5432/crucible`)
  - c. **Username:** your DB username
  - d. **Password:** your DB password
  - e. **Minimum Pool Connections:** 5 is the default
  - f. **Maximum Pool Connections:** 20 is the default
  - g. **Parameters:** (one per line)
    - i. `useUnicode=true`
    - ii. `characterEncoding=UTF8`
5. Click **Test Connection** to validate the values.

*Screenshot: Testing the Connection*

**Database Configuration** 🟢

To switch to a different database, specify the database's configuration settings in the form below and use the Test Connection button to verify that the database can be used. We are currently connected to the PostgreSQL database at `jdbc:postgresql://localhost:5432/crucible`.

Changes to connection pool sizes require a full restart before the new settings will take effect.

Type: **PostgreSQL** (selected from dropdown: Built-In, PostgreSQL, Oracle, MySQL)

Driver Location: **Oracle** (selected from dropdown)

URL: `jdbc:postgresql://localhost:5432/crucible`

User Name: `crucible`

Password: `*****`

Minimum Pool Connections: `5`

Maximum Pool Connections: `20`

Parameters: `useUnicode=true`  
`characterEncoding=UTF8`

Buttons: Cancel, Save & Migrate, Test Connection, Save

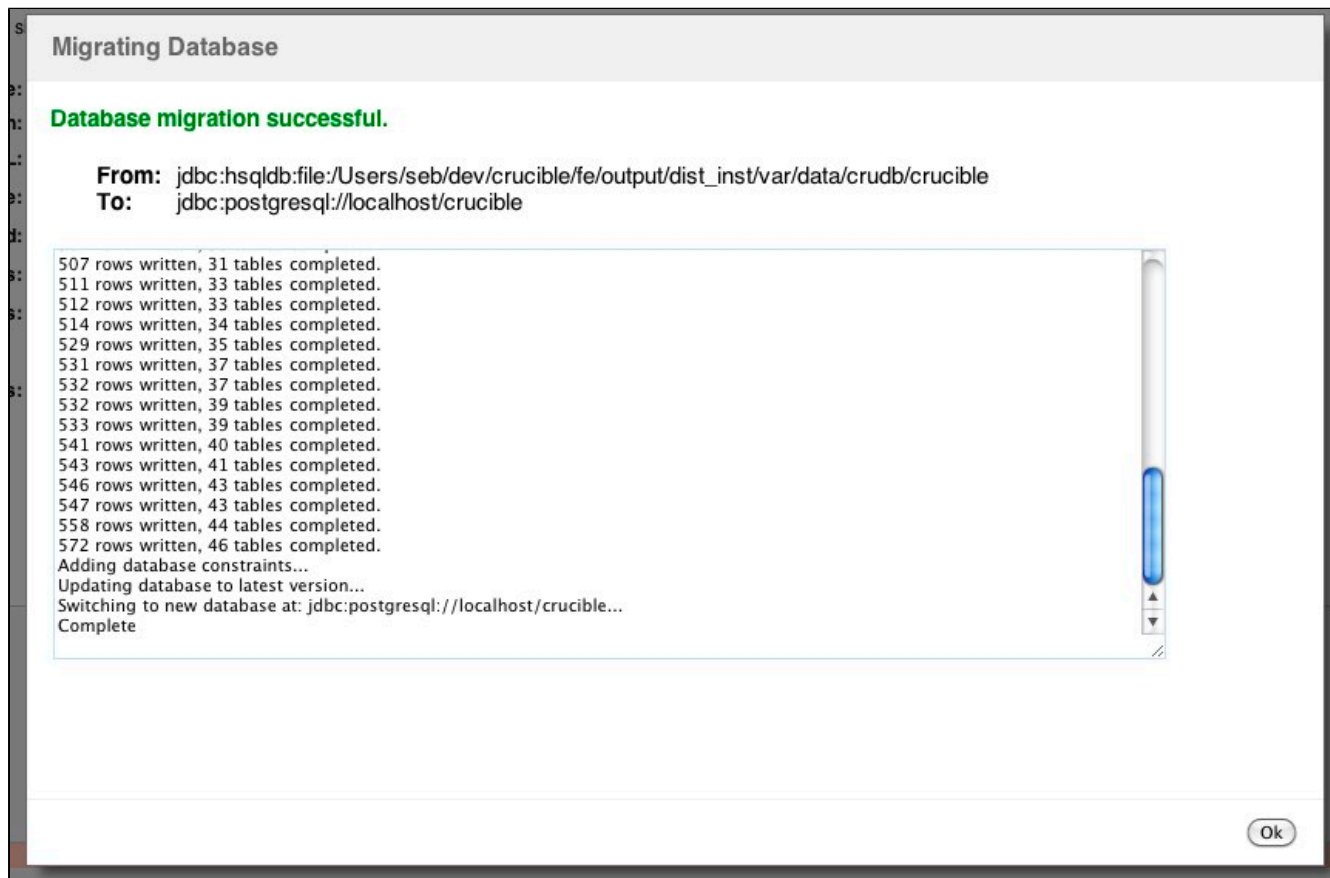


If this fails, verify that you have the PostgreSQL JDBC driver `.jar` file in the classpath (by placing the `.jar` file in `FISHEYE_INST/lib`). Also, ensure that the database user can log in to the database from the machine that FishEye/Crucible is running on and that all the required privileges are present.

- Click **Save & Migrate** to start the migration process.

During the migration process (which will take several minutes, depending on the size of your database and network throughput), the product will be inaccessible to users and external API clients. Users will see a maintenance screen that informs them of the process. Should the migration fail for any reason, FishEye/Crucible will not switch to the new database and report on the encountered problems. Because the destination database may now contain some, but not yet all data, drop all tables, indexes and constraints before attempting a new migration. If successful, the following message is displayed:

*Screenshot: Migrating the Database*



#### Option 2: Migrate using the command line

- Create a backup of the `sql` data from the FishEye/Crucible instance. Information on how to create a backup can be found at [Backing up and restoring FishEye data / Backing up and restoring Crucible data](#).
- Run the following command from the `<FishEye installation directory>/bin` directory:

```
$ ./fisheyectl.sh restore --sql \
    --file /path/to/backup.zip \
    --dbtype postgresql \
    --jdbcurl jdbc:postgresql://hostname/dbname \
    --username crucible \
    --password password
```

- When the import is complete, FishEye/Crucible can be started and will use PostgreSQL.

### Migrating to SQL Server

To migrate FishEye/Crucible to an SQL Server database, install SQL Server and follow the steps below. When they are used together, FishEye and Crucible share the same external database.

### Before you begin

Check that you are using version of SQL Server that is supported for use with FishEye. See [Supported platforms](#).

An existing Java bug prevents connection with Java 1.6.0\_29 and above (including Java 1.7.0). Read more about the issue and possible workarounds [here](#).

### Step 1. Install and create an SQL Server database

See the [SQL Server Online resources \(MSDN\)](#) for instructions on how to install and create an SQL Server database.

Please note the following FishEye/Crucible-specific information when installing and creating an SQL Server database:

- The JDBC jtds drivers for SQLServer are bundled with FishEye/Crucible. We do not support using the Microsoft distributed jdbc driver.
- The FishEye database user must have permission to connect to the database and to create and populate tables.
- The database user should **not** be the database owner, but **should** be in the `db_owner` role. (See [SQL Server Startup Errors](#) for details.)
- Your database server must be configured to use the `Latin1_General_CS_AS` collation set.
- Your database server should be configured to use snapshot mode for the transaction isolation level. To enable snapshot mode, run:

```
ALTER DATABASE crucible
    SET READ_COMMITTED_SNAPSHOT ON;
```

See [this](#) and [this](#) Microsoft MSDN articles for more information.

Note that it is preferable to run the above command after stopping FishEye/Crucible (and with no other applications connected to the SQL Server database), especially if you find that the `alter` statement does not complete quickly.

#### On this page:

- [Before you begin](#)
- [Step 1. Install and create an SQL Server database](#)
- [Step 2. Configure FishEye/Crucible to use SQL Server and migrate data](#)

#### Related pages:

- [Migrating to MySQL](#)
- [Migrating to PostgreSQL](#)
- [Migrating to SQL Server](#)
- [Migrating to an external database](#)
- [Troubleshooting Databases](#)

### Step 2. Configure FishEye/Crucible to use SQL Server and migrate data

In order to migrate to a different database backend, you must create a backup of your SQL data, configure the database and finally import the data via a backup restoration process. This can be done from either the Crucible [administration console](#), which streamlines the process, or via the [command line tool](#) which Crucible provides. These two methods are described below. The following resources may be of interest:

- [Backing up and restoring FishEye data](#)
- [Backing up and restoring Crucible data](#)
- [SQL Server Online resources \(MSDN\)](#)



### Option 1: Migrate using the UI (FishEye/Crucible Administration)

Before you begin:

- Note, during the migration process (which will take several minutes, depending on the size of your database and network throughput), **the FishEye/Crucible instance will be inaccessible to users and external API clients**. Users will see a maintenance screen that informs them of the process.
- If you are attempting a migration after a previous migration has failed, you must drop all tables, indexes and constraints before attempting a new migration. This is because the destination database may contain data from the previous migration attempt.
- Verify that you have the jtds JDBC driver .jar file in the classpath (by placing the .jar file in FISHEYE\_INST/lib).
- Ensure that the database user can log in to the database from the machine that FishEye/Crucible is running on and that all the required privileges are present.



Please ensure that you use a **SQL Server** user account to log into your database, not a Windows user account.

### To configure FishEye/Crucible to use SQL Server and migrate data using the administration console:

1. Navigate to the **Database** page (under 'System Settings') in FishEye/Crucible's Administration console.

To log in to the Admin area, you can either:

- click **Administration** at the foot of the page.
- navigate to <http://HOSTNAME:8060/admin/>, where **HOSTNAME** is the name of the server on which you installed Fisheye.

Once logged in as an **administrator** you can also get to the Admin area by clicking the 'cog' menu in the FishEye/Crucible header, and choosing **Administration**.

2. Configure FishEye/Crucible to use SQL Server, as follows:

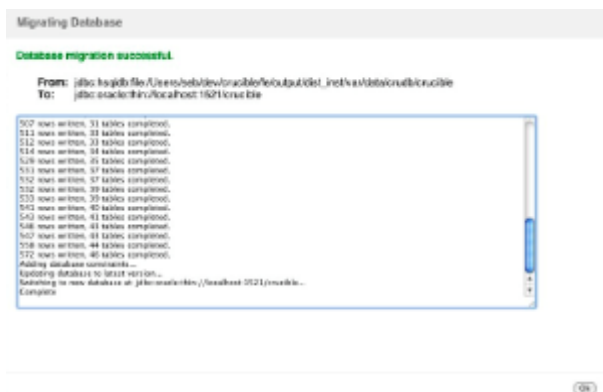
- Choose **Edit > Test Connection** to verify that FishEye/Crucible can log in to the database.
- Select **SQLServer** from the **Type** dropdown (choose **SQLServer 2008** even if you are using SQL Server 2012).
- Complete the appropriate fields, replacing the **URL** (host, port and database name), **User Name** and **Password** as required, using the same connection details as used when creating the SQL Server database in Step 1 above.

NOTE: The default SQL server instance listens on port 1433. If your instance is not the default, use the port number that is associated with your particular instance.

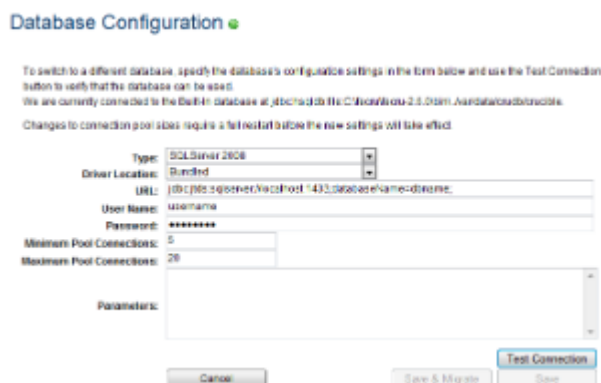
e.g. **URL**: jdbc:jtds:sqlserver://localhost:1433;databaseName=*your database name here*;

3. Click **Test Connection** to verify that FishEye/Crucible can log in to the database (see 'Testing the Connection' screenshot below).
4. Click **Save & Migrate Data** to start the migration process (see 'Migrating the Database' screenshot below). If the migration fails, FishEye/Crucible will not switch to the new database and will report the problems encountered.

Screenshots: Configuring FishEye/Crucible to use SQL Server and migrating data (click to view full-size images)



2. Migrating Data



1. Configuring the Database

### Option 2: Migrate using the command line

### To configure FishEye/Crucible to use SQL Server and migrate data using the command line:

1. Create a backup of the `sql` data from the FishEye/Crucible instance. Information on how to create a backup can be found at [Backing up and restoring FishEye data \ Backing up and restoring Crucible data](#)
2. Run the following command from the `<FishEye installation directory>/bin` directory:

```
$ ./fisheyectl.sh restore --sql \
    --file /path/to/backup.zip \
    --dbtype sqlserver2008 \
    --jdbcurl
"jdbc:jtds:sqlserver://hostname:port;databaseName=dbName;" \
    --username crucible \
    --password password
```

When using SQL Server 2012, use the same parameters as in the code snippet above, so `--dbtype` should be set to `sqlserver2008`, even if you are using SQL Server 2012.

3. When the import is complete, FishEye/Crucible can be started and will use SQLServer.

## Backing up and restoring Crucible data

Crucible data can be backed up from the admin interface or command line. This page contains the command syntax, options and the required procedure to backup and restore your Crucible instance.

### Backing up Crucible data


#### The Crucible admin backup process

1. Navigate to the Crucible Admin area (click the **Administration** link in the footer of any Crucible page).
2. Click **Backup** (under 'System' heading in the left navigation bar).
3. The **File Path** field indicates where the backup file (in .zip format) will be stored. You can manually edit this path to change it. Under 'Include', a list of check boxes is shown, with the following items:

#### On this page:

- [Backing up Crucible data](#)
  - [The Crucible admin backup process](#)
  - [The Crucible command line backup process](#)
  - [Components of a Crucible backup](#)
  - [Backup command line options](#)
  - [Command line examples](#)
  - [Advanced backup command line settings](#)
  - [Known limitations](#)
- [Scheduling Crucible backups](#)
- [Restoring Crucible data](#)
  - [Restoring Crucible data from the command line](#)
  - [Command line restore options](#)
  - [Advanced command line restore settings](#)

- Plugins and their configuration data
- SQL database
- Web templates
- Uploaded files and local copies of files under review.
- Repository and application caches.

 Repository and application caches contain temporary data stored from repository scans and library caches that improve startup time. Both will be recreated automatically by re-scanning the source repositories, so the backup files can be reduced by a significant amount by excluding these (if the cost of re-scanning is acceptable).

4. Once you have chosen your options, click **Create Backup Now**.

*Screenshot: The Crucible Backup Screen*

## Backup

**FishEye and Crucible will be unavailable until the backup completes**

Depending on the number of repositories and reviews, the backup may take a long time to complete and may require large amounts of disk space (especially when you are including the cache). Please make sure you have enough disk space before proceeding.

**Your managed repositories will not be backed up!**

FishEye does not automatically backup content stored in your managed repositories. Please ensure that a backup process which is satisfactory to your requirements is in place. [Read more](#)

Create a new backup

Filename

Specify the filename on the server where FishEye and Crucible should export.  
This file will be created in /opt/j2ee/domains/atlassian.com/eac-fisheye/data/backup

Include

- ☒ ActiveObjects
- ☒ repository and application caches
- ☒ plugins and their configuration data
- ☒ SQL database
- ☒ web templates
- ☒ uploaded files and local copies of files under review

Choose the components that FishEye and Crucible should include in the backup.

or [Manage Scheduled Backups](#)

### The Crucible command line backup process

**i** Your Crucible instance must be running during the backup.

1. Open a command line interface on the Crucible server computer.
2. Navigate to the <Crucible home directory>/bin/ directory.
3. Run the backup command on the command line with the desired options.
4. The backup is created as a new Zip archive file and placed in the FISHEYE\_INST/backup/ directory.
 

**i** Note that if your Crucible instance uses a custom FISHEYE\_INST directory; make sure the environment variable is properly set when running the backup command.

### Components of a Crucible backup

The Crucible backup is highly configurable and allows for many different configurations. This table shows the various components of the backup, what they are for and how they can be used.

| Component    | Purpose  | Defaults   |
|--------------|--|--|
| SQL Database | Refers to the SQL content database (used by both FishEye and Crucible and containing all user profile data, reviews and their comments).   | Backed up by default.  |
| Cache        | The cache contains data that reflects the state of FishEye's repositories. Without it, FishEye must re-scan its repositories after a backup is restored. The cache also contains OSGI library data that increases startup time. These too can be excluded and will be generated automatically when the application is started. | The cache is not backed up by default as it tends to be large (running a risk of pushing the maximum file size for Java backups), whilst also representing replaceable data. |
| Plugins      | Plugins are 3rd-party extensions that you may have installed, and configuration for all plugins (this includes configuration for Crucible's set of standard plugins).  | Configuration data for all plugins are backed up by default, as well as all plugins installed in FISHEYE_INST/var/plugins/user.  |

|               |   |   |
|---------------|---|---|
| Templates     | In this context, these are custom freemarker templates that you or your users have created. They live in <code>FISHEYE_INST/template</code> .   | Templates are backed up by default. You can choose to exclude them from the backup if your templates directory is covered by some other backup mechanism.   |
| Uploads       | In this context, uploads refers to files which are added to Crucible via the web interface (such as patch file reviews). It also includes each repository-backed file that went under review, when Crucible is configured to <a href="#">make a local copy of every reviewed file</a> . | Uploads are backed up by default. You can choose not to back them up for example when the <code>FISHEYE_INST/var/data/uploads</code> directory is already covered by some other backup mechanism. |
| ActiveObjects | Configuration data stored by plugins  | Backed up by default  |

Note that the backup will always include the configuration data (`config.xml`), your license file and the FishEye user data.

#### Backup command line options

These examples are for use in a Linux-like operating system. When using these commands on Windows, use the file name `fisheyectl.bat` and use the correct slashes. Run the command from the `<Crucible home directory>/bin/` directory.

The basic syntax of the backup command is as follows:

```
$ ./fisheyectl.sh backup [OPTIONS]
```

To see inline help for all backup options, run the following command in the `<Crucible home directory>/bin/` directory:


```
$ ./fisheyectl.sh backup --help
```

|| Option || Switch || Description || Default setting ||

|                          |                     |  |   |
|--------------------------|---------------------|--|---|
| <b>Quiet mode</b>        | -q OR --quiet       | Suppresses output  | No  |
| <b>Output filename</b>   | -f OR --file        | Specify a different path and filename to the <code>FISHEYE_INST/backup/backup_YYYY-DD-MM_HHmm.zip</code> file. When filename is omitted, the backup filename contains the date and time. | <code>FISHEYE_INST/backup/</code> is the default directory. |
| <b>Compression level</b> | --compression OR -c | Sets the Zip compression level, from 1-9. Runs at level 6 if no argument is passed.  | Yes (6)   |

|                     |                   |   |  |
|---------------------|-------------------|---|--|
| <b>Anonymise</b>    | -a OR --anonymise | Anonymises the SQL database by replacing all text with 'x'. This is only useful when sending a backup to Atlassian as part of a support case. <b>Please do not anonymise data unless the Support Engineer handling your support case has specifically requested the data anonymised (as often anonymised data will not help reproduce the issue).</b> | No   |
| <b>Cache Backup</b> | --cache           | Include the repository caching files in the backup. These hold information gained from scanning the repositories and can be quite large (many gigabytes). However, it can shorten the time needed to re-scan the repositories after data is restored.   | No. By default, the cache data is excluded from backups. |

#### Command line examples

 These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fishyeectl.bat` and use the correct slashes. Run the command from the `<Crucible home directory>/bin/` directory.

#### Backing up with compression of 9, quiet mode and setting an output location

```
$ ./fishyeectl.sh backup --compression 9 -q -f
/application_backups/fisheye/20090215.zip
```

#### Backup including cache data (also includes all default components)

```
$ ./fishyeectl.sh backup --cache
```

#### Restoring a backup with cache data (also restores all default components)

```
$ ./fishyeectl.sh restore --cache
```

#### Advanced backup command line settings

In some cases it might be preferable to only backup a limited set of items. This could be useful when your instance uses an external database such as MySQL or PostgreSQL and your DBA has already configured automatic backups in the database. The commands below allow this.

| Option | Switch | Description | Default |
|--------|--------|-------------|---------|
|--------|--------|-------------|---------|

|                             |                |  |   |
|-----------------------------|----------------|--|---|
| <b>Exclude Plugins</b>      | --no-plugins   | Excludes plugins from the backup.  | No. By default, plugins are included in every backup.   |
| <b>Exclude Templates</b>    | --no-templates | Excludes templates from the backup.  | No. By default, templates are included in every backup. |
| <b>Exclude Uploads</b>      | --no-uploads   | Excludes uploaded files (such as patch reviews, stored in Crucible's internal database) from the backup. | No. By default, uploads are included in every backup.   |
| <b>Exclude SQL Database</b> | --no-sql       | Excludes the SQL content database used by both FishEye and Crucible.                                     | No. By default, this data is included in every backup.  |
| <b>Show help</b>            | --help OR -h   | Shows inline help on the command line.   | No  |

#### Known limitations

Please note that the below limitations are common for any Java based backup tool.

#### Archives Containing Over 65535 Files

Versions of Java earlier than v1.6 (b25) are incapable of handling zip files that contain more than 65,535 files. The solution for this problem is to either upgrade to a version of Java later than v1.6 (b25), or ensure that the archive does not exceed the threshold (contains less than 65,535 files). The FishEye cache (not included in backups by default) can be a contributor of many small files. Hence, exclude the cache from backups if this is likely to be a concern.

#### Archives Larger Than 4GB

Java has trouble reading and writing zip files that are larger than 4GB. As of release 1.5 Java appears capable of reliably creating archives that are over 4GB, but remains unable to extract them. For details see [Sun's bug report](#). Also be aware of the fact that some file systems (including [FAT32](#)) have trouble with files larger than 4GB.

As a workaround, make sure you do not create archives that are larger than 4GB. The FishEye cache (not included in backups by default) can be a contributor of a lot of small files (although these tend to compress very well). If you still want to archive everything and end up with an archive that is too large, consider creating separate backups for the FishEye cache and uploaded files respectively.

#### Scheduling Crucible backups

To set a schedule for automatic backups, open the administration screen and click '**Backup**' under '**System**' on the left navigation bar. The 'Backup' page opens. Now, click the link '**Manage Scheduled Backups**' at the bottom of the page. The 'Scheduled Backups' page opens.

On the 'Scheduled Backups' page, click '**Edit**' to adjust the backup schedule. Set the desired options and click '**Save**'.

The options for scheduled backups are detailed in the table below.

| Option name                      | Description   | Allowed Values  |
|----------------------------------|---|---|
| <b>Disable Scheduled Backups</b> | Stops regular backups from taking place.            | On (disabled) or Off (enabled)                                  |
| <b>Backup path</b>               | The path where the backup .zip file will be stored. | Any system or network path that FishEye or Crucible can access. |

|                                 |   |   |
|---------------------------------|---|---|
| <b>Backup file prefix</b>       | Characters that will be added to the beginning of the backup file name.   | Any string of characters that can be used as part of a filename on the local operating system.                                  |
| <b>Backup file date pattern</b> | Sets a date for the next (or initial) backup to take place.   | Any valid date in the format <code>yyyy_MM_dd</code> (year, month, day of the month).   |
| <b>Backup frequency</b>         | Sets how often the backup will take place.  | Can be set to ' <b>every day</b> ', ' <b>every Sunday</b> ', ' <b>Monday to Friday</b> ' and ' <b>first day of the month</b> '. |
| <b>Backup time (HH:mm)</b>      | The time when the backup will take place.   | Any valid 24-hour time in the format <code>HH : mm</code> (hours, minutes).   |
| <b>Include</b>                  | Specifies which items must be included in the backups (these components are explained at the top of this page). | As per the options for regular on-demand backup (These components are explained at the top of this page).                       |

### Screenshot: Scheduling Backups in FishEye and Crucible

## Scheduled Backups

**Please choose the schedule for your backups carefully. FishEye and Crucible will be unavailable for the duration of the backup process.**

**Your managed repositories will not be backed up!**  
FishEye does not automatically backup content stored in your managed repositories. Please ensure that a backup process which is satisfactory to your requirements is in place. [Read more](#)

### Schedule backups

Disable scheduled backups ☐ Switch scheduled backups on and off.

Backup directory **/opt/j2ee/domains/atlassian.com/eac-fisheye/data/backup**  
The location to store the backups. Edit config.xml to change this setting.

Backup file prefix   
The prefix for the generated backup file.

Backup file date pattern   
The date/time format you specify will be added to the file prefix to differentiate between backup files.

Backup frequency **every day** How often do you want FishEye and Crucible to run a backup.

Backup Time (HH:mm)   
What time would you like FishEye and Crucible to run the backup, e.g. 17:30.  
Note that this is 24 hour notation in local server time. Current local server time is: 02:04.

Include ☐ ActiveObjects  
☒ repository and application caches  
☒ plugins and their configuration data  
☒ SQL database  
☒ web templates  
☒ uploaded files and local copies of files under review  
Choose the components that FishEye and Crucible should include in the backups.

**i** Be aware that scheduled backups can fill up disks unless you regularly move or delete old archives.

## Restoring Crucible data


### Restoring Crucible data from the command line

**i** There is currently no way to restore a backup from the web interface because Crucible must be shut down during a data restore.


**!** Restoring a backup will irreversibly overwrite the data of your installation with the data from the backup archive.  
**If you made a backup from production which connected to an external database, and restore this**



**backup to a test server without specifying another database to restore too, you will drop and restore to your production database.** Thus when restoring to a test server, always ensure you specify the correct database to restore to (or restore to an in-built database).

1. **Install Crucible** into a new, empty directory (this must be the same version that the backup was created from, or later).  
 Note that you cannot restore data into versions of Crucible which are older than the version that created the backup.
2. Make sure the Crucible instance is not running.
3. Open a command line interface on the Crucible server computer.
4. Run the restore command on the command line with the desired options.
5. The specified elements will be restored.
6. Start the Crucible instance.
7. When using FishEye integrated with Crucible, you will need to re-index your repositories after restoring data, unless the backup archive was created with the `--cache` option.

### Command line restore options

 These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fishyeectl.bat` and use the correct slashes. Run the command from the `<Crucible home directory>/bin/` directory.

The basic syntax of the restore command is as follows:

```
$ ./fishyeectl.sh restore -f /path/to/backup_2009-10-02_1138.zip [OPTIONS]
```

To see inline help for all backup options, run the following command in the `<Crucible home directory>/bin/` directory:

```
$ ./fishyeectl.sh restore --help
```

Restores a FishEye/Crucible backup instance.

If you are using an external database (as opposed to the default built-in database), make sure the JDBC driver file is present in the `FISHEYE_INST/lib` directory when running restore.

| Option                      | Switch  | Description  | Default        |
|-----------------------------|---|--|----------------|
| Suppress output             | <code>--quiet</code> OR <code>-q</code>                               | Suppress the output messages from the restore program on the command line. | No             |
| Choose file to restore from | <code>--file PATH/FILENAME</code><br>OR <code>-f PATH/FILENAME</code> | Restore the backup from <code>PATH/FILENAME</code> .                       | Yes (required) |
| Show inline help            | <code>--help</code> OR <code>-h</code>                                | Displays help for options on the command line.                             | No             |

### Advanced command line restore settings

By default, the restore program will restore all items found in the backup archive (so if you included the caches using the `--cache` option, these will automatically be restored). However, it is possible to only restore a subset of items from the backup, by explicitly specifying the item names on the command line and only those will be restored.

| Option                | Switch               | Description                          |
|-----------------------|----------------------|--------------------------------------|
| Restore FishEye cache | <code>--cache</code> | Restore the repository cache backup. |



|                          |                  |   |
|--------------------------|------------------|---|
| Restore plugins          | --plugins        | Restore 3rd-party plugins and their configuration data.   |
| Restore templates        | --templates      | Restore freemarker templates from the backup (the restored instance will use the built-in templates).   |
| Restore uploads          | --uploads        | Restore uploads (e.g. patch files uploaded into Crucible and contents of files under review).   |
| Restore Crucible reviews | --sql            | Restore the SQL database containing user profiles, reviews and review comments.   |
| Set database type        | --dbtype OR -t   | SQL database type ( <code>mysql</code> , <code>postgresql</code> , <code>sqlserver2008</code> , <code>sqlserver2012</code> or <code>hsql</code> ). Only required when restoring to a database location different to that used at backup time.   |
| Set JDBC URL             | --jdbcurl OR -j  | JDBC URL of the SQL database. Only required when restoring to a database location different to that used at backup time (not applicable for <code>hsql</code> ).  |
| Set JDBC username        | --username OR -u | JDBC username of the SQL database. Only required when restoring to a database location different to that used at backup time (not applicable for <code>hsql</code> ).   |
| JDBC password            | --password OR -p | JDBC password of the SQL database. Only required when restoring to a database location different to that used at backup time (not applicable for <code>hsql</code> ).   |
| JDBC class               | --driver OR -d   | Specifies the JDBC driver class name needed to access the SQL database. Only required when restoring to a database location different to that used at backup time and when using a different JDBC driver than the standard driver associated with the database specified through <code>--dbtype</code> . (Not applicable for 'built-in'.) |

#### Notes on migrating backup data

When the process restores a SQL database, it looks at the configuration data (`config.xml`) included in the backup archive to learn which database product was used and how to connect to it. When Crucible uses the built-in HSQLDB database (which is the default), the restored instance will also use that. However, when the restored instance will use a different database than the backed up instance (for instance, HSQLDB was used at the time the backup was created, but it needs to be restored on MySQL), use the command line options to point the process to the new database.

**Command line example: migrating backup data to MySQL**

**i** These examples are for use in a Linux-like operating system. When using these commands on Windows, use the filename `fishyeectl.bat` and use the correct slashes. Run the command from the `<Crucible home directory>/bin/` directory.

**Restoring to a Crucible instance that uses a different database (ensure the mysql driver jar file is present in the `FISHEYE_INST/lib` directory)**

```
$ ./fishyeectl.sh restore \  
--username john \  
--password smith \  
--jdbcurl jdbc:mysql://localhost:3306/crucible \  
--dbtype mysql \  
--file /path/to/backup_2009-10-02_1138.zip
```

## Customising Crucible

This section describes the ways in which you can configure Crucible.

- [Customising the welcome message](#)
- [Customising email notifications](#)
- [Customising the defect classifications](#)
- [Configuring User Managed Mappings](#)
- [Enabling Access Logging in Crucible](#)

### Customising the welcome message

Crucible administrators can customise the welcome message that is displayed when Crucible starts by clicking **Front Page Customization** (under 'Global Settings') in the admin area.

You can provide either or both of:

- a custom welcome message that is displayed to users when they first log in.
- a custom support message that also appears on the opening page, and which gives contact details for your own support organisation.

The changes you make are applied immediately, without needing to restart Crucible.

## Front Page Customization

Welcome Message

Support Message

The welcome message is displayed to users when they first log in.

☐ Show the default welcome message

☒ Show a custom welcome message:

Enter your welcome message here...

If blank, the default welcome message will be used.

Save changes

revert

### Using HTML

The content in the welcome screen can be formatted using basic HTML tables, image references or anchor tags, such as the following:

```
<a href="http://www.atlassian.com">Link to Atlassian Home Page</a>
```

### Editing the config.xml file

You can also directly edit the XML file that contains the welcome and support messages. This file is called `config.xml`, and is located in the Crucible installation folder.

To do this, simply add the following XML tags to `config.xml`:

```
<content>
  <front-page-message>Example welcome message here</front-page-message>
  <support-message>Example support message here</support-message>
</content>
```

## Customising email notifications

Email notifications in Crucible can be customised to change their formatting, by editing template files. This page contains instructions for this process.

### Editing Crucible email templates

Template files for Crucible are stored in the `<Crucible home directory>/template/crucible/` folder and the `<Crucible home directory>/template/shared` folder.

There are sets of templates for both HTML and plain-text emails, as listed in the table below. Note that these templates do not support embedding full diffs into notifications. They are only for changing the appearance and order of certain content inside the messages.

You can edit templates in any text editor:

- Either: Stop Crucible before editing templates to avoid disrupting notifications that may otherwise be sent.
- Or: Avoid editing a live template file, as Crucible may try to use it while you are editing. This could have unpredictable results. Instead, back up the template file (it's wise to keep original versions of all these files), edit a copy you have made, then overwrite the 'live' template once you have finished.
- After an edit, the change to the email template will take place immediately. No restart is required.

#### Advanced editing of Crucible email templates


The email notification templates use the [Freemarker](#) format. Freemarker is a general templating engine enabling automated content.

If you are familiar with Freemarker, more advanced customisations can be made to the email notification templates. However, you make such adjustments at your own risk.

See [Freemarker Data Model for Email Templates](#) in the FishEye documentation for details of the data model used by FishEye/Crucible.

#### Crucible email template files

The following template files for Crucible notification are stored in the `<Crucible home directory>/template/crucible/` folder, or its subfolders.

| Template filename   | HTML | Plain-text |
|---|------|------------|
| <b>common-mention-macros.ftl</b>  |      | Both       |
| <b>crucible-notification-subject.ftl</b><br>All of the content must be contained within the first line of the template.<br>You can't use markup in this line.<br>Currently not working – see<br><div>  <b>CRUC-4180</b> - Email Subject template does not allow for modification           <a href="#">OPEN</a> </div> |      | Both       |
| <b>changeset-headet.ftl</b>   |      | Shared     |
| <b>util.ftl</b>   |      | Shared     |
| <b>all-completed-notification.ftl</b>   | ✓    | ✓          |
| <b>all-uncompleted-notification.ftl</b>   | ✓    | ✓          |
| <b>batch-comment-note.ftl</b>   | ✓    | ✓          |
| <b>batch-reviewer-note.ftl</b>  | ✓    | ✓          |
| <b>batch-revision-added-note.ftl</b>  | ✓    | ✓          |
| <b>batch-state-note.ftl</b>   | ✓    | ✓          |
| <b>comment-render-macro.ftl</b>   | ✓    | ✗          |
| <b>crucible-layout.ftl</b>  | ✓    | ✓          |
| <b>cscomment-notification.ftl</b>   | ✓    | ✓          |
| <b>general-notification.ftl</b>   | ✓    | ✓          |
| <b>invite.ftl</b>   | ✓    | ✗          |
| <b>mention-macros.ftl</b>   | ✓    | ✓          |

|   |   |   |
|---|---|---|
| mention-user-in-changeset-comment-notification.ftl  | ✓ | ✓ |
| mention-user-in-review-comment-notification.ftl     | ✓ | ✓ |
| mention-user-in-review-description-notification.ftl | ✓ | ✓ |
| review-allcomments.ftl                              | ✗ | ✓ |
| review-header.ftl                                   | ✓ | ✗ |
| review-participant-row.ftl                          | ✓ | ✗ |
| review-reminder-notification.ftl                    | ✓ | ✓ |
| review-summary.ftl                                  | ✓ | ✓ |
| share-footer.ftl                                    | ✓ | ✗ |
| share-header.ftl                                    | ✓ | ✗ |
| share-notification.ftl                              | ✓ | ✓ |

See also [Customising FishEye Email Notifications](#).

### Freemarker Data Model for Email Templates

#### Customising Crucible email templates with Freemarker

See the [Freemarker documentation](#) for instructions on Freemarker syntax. Use the templates that ship with Crucible as a guide to the properties available on each object.

Specific email types will have extra data associated with them, and this data will be available in that particular template (but not in others).

#### Example

The syntax to access the data-model, using the data model object '**link**' as an example, place this code into the email at the desired position.

```
${notification.link}
```

## Customising the defect classifications

This page explains how to customise defects and their classifications in Crucible.

On this page:

- [Defects in Crucible comments](#)
- [Changing classification settings](#)
- [Default Crucible classifications](#)
  - [Ranking](#)
  - [Classification](#)

#### Defects in Crucible comments

**Defects** are comments made by [reviewers](#) that indicate a problem in a review. Defects can be classified by rank and type. Custom classifications can also be defined. The default classifications are shown in the screenshot below.

*Screenshot: The list of defect classifications*

The screenshot shows a code review interface. At the top, a code diff is visible with lines 107-116. Below the diff, a text box contains the question: "Why on Earth are we getting a list of classes here?". At the bottom, a defect classification dropdown menu is open, showing options: "Missing", "Extra (superfluous)", "Ambiguous", "Inconsistent", "Improvement desirable", "Not conforming to standards", "Risk-prone", "Factually incorrect", "Not implementable", and "Editorial". The "Risk-prone" option is selected. To the right of the dropdown are buttons for "Keep as Draft", "Discard", and "Post". Below these buttons, it says "Autosaved at 4:17 PM".

### Changing classification settings

**i** Only Crucible Admin users can edit defect classifications.

#### To change the default classifications:

1. In the Admin area, click **Crucible** under 'Global Settings'.
2. Click **Edit Defect Classifications**.
3. You can add and remove classifications, and add fields to, or remove fields from, classifications.

Any changes made to defect classifications will only apply to reviews created after the change is saved.

*Screenshot: Editing defect classifications in Crucible*

## Defect Classifications

Note: Changes will only apply to new reviews  
Current defect classification version is 9.

Ranking

Name

Ranking

Values

Major

remove

Minor

remove

Add field

Remove this Classification

Classification

Name

Classification

Values

Wrong

remove

Can be improved

remove

Risk-prone

remove

Security hole

remove

Over engineered

remove

Code duplication

remove

Add field

Remove this Classification

Add a new Classification

Save changes

Cancel

### Default Crucible classifications

There are two default defect classifications that are preset in Crucible: Ranking and Classification. These settings (and their sub-categories) can be edited or removed; other custom classifications can be added.

#### Ranking

Crucible users can rank a defect as **Major** or **Minor**, indicating the importance of the defect.

#### Classification

This setting helps to provide more detail about the defect. This classification can be set to one of the options described in the following table:

| Value                 | Description  |
|-----------------------|--|
| Missing               | The defect applies to code or information that is missing (absent).                  |
| Extra (superfluous)   | The defect applies to code or information that should be removed.                    |
| Ambiguous             | The defect applies to code or information that is not clear or easy to understand.   |
| Inconsistent          | The defect applies to code or information that is applied in several different ways. |
| Improvement desirable | The defect applies to code or information that needs to be revised.                  |

|                             |  |
|-----------------------------|--|
| Not conforming to standards | The defect applies to code or information that breaks established conventions.                                     |
| Risk-prone                  | The defect applies to code or information that takes unacceptable risks.   |
| Factually incorrect         | The defect applies to code or information that is wrong.   |
| Not implementable           | The defect applies to code or information that may be impossible to create.  |
| Editorial                   | The defect applies to code or information where the classification as a defect may be subject to personal opinion. |

## Configuring User Managed Mappings

In Crucible, Administrators can control whether users can use the [Author Mapping](#) setting to map their own Crucible usernames to repository committer accounts or not. By default, the setting allows users to set their own mappings.

If you wish to lock down the mappings for security or audit reasons, this setting lets you restrict all management of mappings to Crucible administrators only.

To do this, click **Administration** in the footer of the Crucible interface and then **Authentication** (under 'Security Settings') in the left navigation bar. You can set User Managed Mappings either **On** or **Off**. The setting is applied immediately.

*Screenshot: User Managed Mappings*



## Enabling Access Logging in Crucible

To enable access logging in FishEye 3.0 and later:

1. Stop Fisheye/Crucible,
2. Create the file `FISHEYE_HOME/content/WEB-INF/jetty-web.xml` with the following content:



```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE Configure PUBLIC "-//Mort Bay Consulting//DTD
Configure//EN" "http://www.eclipse.org/jetty/configure.dtd" >
<Configure class="org.eclipse.jetty.webapp.WebAppContext">
  <Set name="handler">
    <New
class="com.cenqua.fisheye.web.jetty.FishEyeRequestLogHandler">
      <Set name="requestLog">
        <New id="RequestLogImpl"
class="org.eclipse.jetty.server.NCSARequestLog">
          <Arg><SystemProperty name="jetty.logs"
default="./var/log/" />fisheye-access-yyyy_mm_dd.log</Arg>
          <Set name="retainDays">90</Set>
          <Set name="append">true</Set>
          <Set name="extended">false</Set>
          <Set name="LogTimeZone">GMT</Set>
        </New>
      </Set>
    </New>
  </Set>
</Configure>
```

### 3. Restart Fisheye/Crucible.

This will create an access log in `FISHEYE_HOME/var/log/fisheye-access-yyyy_mm_dd.log` format (e.g. `fisheye-access-2010_03_17.log`). If you want to change the path to your `FISHEYE_INST` directory, change the `default="./var/log/"` to the path to the log folder in `FISHEYE_INST`.



#### **The log directory must exist**

If the path to the log directory given by the `default` attribute of the `SystemProperty` tag (defined in the line 10 in the `jetty-web.xml` above) does not exist, then FishEye will fail to start and will not log any error message.

The path given in the example below is correct when `FISHEYE_INST` and `FISHEYE_HOME` are the same directory, otherwise please use the absolute path of your `FISHEYE_INST/var/log` directory.

#### **Log format**

The logs are written in [NCSA format](#):

```

172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=TestRepo&ou
tputtype=image HTTP/1.1" 200 256
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=npanday&out
puttype=image HTTP/1.1" 200 177
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=jutils&outp
uttype=image HTTP/1.1" 200 775
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=P4&outputty
pe=image HTTP/1.1" 200 177
172.20.5.186 - - [17/Mar/2010:22:50:21 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=Rails&outpu
ttype=image HTTP/1.1" 200 1311
172.20.5.186 - - [17/Mar/2010:22:50:22 +0000] "GET
/fe/commitSparkline.do?w=280&h=48&context=repository&repname=FE-2363&out
puttype=image HTTP/1.1" 200 128

```

Please refer to the [Jetty documentation](#) for more configuration options.

#### Compatibility

If you are using an earlier version of FishEye than FishEye 2.7.8, replace `com.cenqua.fisheye.web.jetty.FishEyeRequestLogHandler` by `org.mortbay.jetty.handler.RequestLogHandler`.

`FishEyeRequestLogHandler` was added in 2.7.8 to fix an issue where the user credentials would not be added to the NCSA log: [FE-3040](#).

## Integrating Crucible with other applications

- [Linking Crucible to JIRA](#)
- [Linking to another application](#)

### Linking Crucible to JIRA

JIRA is Atlassian's issue tracking and project management application.

See [JIRA integration in Crucible](#) for a description of all the integrations you get when Crucible is linked with JIRA.

This page describes how to integrate JIRA with Crucible.

When Crucible was first installed, JIRA integration may have been configured using the setup wizard, which configures the JIRA connection automatically using the most common options. See [Configuring JIRA integration in the Setup Wizard](#).

However, JIRA integration with Crucible can be configured at any time after installation, as described on this page.

#### Initial configuration in JIRA

Configure the following setting in each instance of JIRA that you wish to link to Crucible:

- [Allow remote API access](#)

Consider also the following, to make full use of the integration between Crucible and JIRA:

- [Enable subtasks](#)
- [Allow unassigned issues](#)

**On this page:**

- [Initial configuration in JIRA](#)
- [Linking Crucible with JIRA instances](#)
- [Configuring an application link with JIRA](#)
- [Connecting to JIRA for user management](#)
- [Inline issue creation](#)

**Related pages:**

- [JIRA integration in Crucible](#)
- [User management limitations and recommendations](#)
- [Configuring application links](#)

**Linking Crucible with JIRA instances**

You can integrate Crucible with one or more instances of JIRA from the Crucible administration area. There are two parts to integrating with a JIRA instance:

- A peer-to-peer application link between JIRA and Crucible for sharing information and facilitating integration features.
- A client-server link between Crucible and JIRA for delegating user and group management to your JIRA server. You would only do this with one instance of JIRA.

**Configuring an application link with JIRA**

This section describes how to create a two-way applications link between Crucible and JIRA. Please refer to [Adding an application link](#) for information about the various options available.

**To create a new application link between Crucible and JIRA:**

1. Go to your Crucible administration screen and click **Application Links** (under 'Global Settings').
2. Enter the URL for the JIRA instance you want to link to and click **Create new link**.
3. Complete the application link wizard to connect Crucible to your JIRA server. You *must* make use of the automatic link-back from JIRA to Crucible to get full integration (you'll need the JIRA system administrator global permission for that).

**To update an existing application link with JIRA:**

When you update an older application link to use OAuth, 3-legged authentication is applied by default. However, you'll need to explicitly enable 2-legged authentication in order to see Crucible information in the JIRA Development panel (when integrated with JIRA 6.2 or later). Enable 2LO for the application link as follows:

1. Go to the Crucible admin area and click **Add-ons > Application Links**.
2. Click **Edit** for the app link with JIRA.
3. For both **Outgoing Authentication** and **Incoming Authentication**:
  - a. Click **OAuth**
  - b. Check **Allow 2-legged OAuth**.
  - c. Click **Update**.

The application link update process will involve you logging into JIRA for a short time to configure the JIRA end of the link, before returning you to the Crucible.

**Connecting to JIRA for user management**

This option is available only with **JIRA 4.3 and later**.

To manage your Crucible users using JIRA, configure a connection in JIRA and then set up the user directory in Crucible. Both steps are described below.

**To configure a new connection for user management in JIRA:**

1. Log in to JIRA as a user with the 'JIRA System Administrators' global permission.
2. Click **Administration** on the JIRA top navigation bar.
  - a. Go to the JIRA administration screen for configuring the applications that have been set up to use JIRA for user management:
    - In JIRA 4.3: Click **'Other Applications'** in the **'Users, Groups & Roles'** section of the JIRA

administration screen.

- In JIRA 4.4: Select '**Administration**' > '**Users**' > '**JIRA User Server**'.
- b. **Add** an application.
- c. Enter the **application name** and **password** that your application will use when accessing JIRA.
- d. Enter the **IP address** or addresses of your application. Valid values are:
  - A full IP address, e.g. 192.168.10.12.
  - A wildcard IP range, using CIDR notation, e.g. 192.168.10.1/16. For more information, see the introduction to [CIDR notation on Wikipedia](#) and [RFC 4632](#).
- **Save** the new application.

### To set up the JIRA user directory in Crucible:

Go to your Crucible administration screen.

1. Click **Authentication** (under 'Security Settings').
2. Click **Setup JIRA/Crowd authentication**. Note, if LDAP authentication has already been set up, you will need to remove that before connecting to JIRA for user management.
3. Make the following settings:

|   |   |
|---|---|
| <b>Authenticate against</b>                     | Select a <b>JIRA instance</b>   |
| <b>Application name</b> and <b>password</b>     | Enter the values that you defined for your application in the settings on JIRA.   |
| <b>JIRA URL</b>                                 | The web address of your JIRA server. Examples: <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <pre>http://www.example.com:8080/jira/ http://jira.example.com</pre> </div> |
| <b>Auto-add</b>                                 | Select <b>Create a FishEye user on successful login</b> so that your JIRA users will be automatically added as a FishEye user when they first log in.   |
| <b>Periodically synchronise users with JIRA</b> | Select <b>Yes</b> to ensure that JIRA will synchronize all changes in the user information on a regular basis. Change the value for <b>Synchronise Period</b> if required.                      |
| <b>When Synchronisation Happens</b>             | Select an option depending on whether you want to allow changes to user attributes from within FishEye.   |
| <b>Single Sign On</b>                           | Select <b>Disabled</b> . SSO is not available when using JIRA for user management and if enabled will make the integration fail.  |

4. Click **Next** and select at least one user group to be synchronised from JIRA. If necessary, you could create a new group in JIRA, such as 'fisheye-users', and select this group here.
5. Click **Save**.

### Inline issue creation

Inline issue creation allows a user to create a JIRA issue from a review comment. The user must have the 'Comment' [permission](#) in Crucible to see the **Create Issue** link in the comment. See [Creating JIRA issues from the review](#).

This requires that Crucible is integrated with JIRA 5.0, or later, and is disabled if Crucible is integrated with an earlier version of JIRA.

When creating the issue, the Create Issue dialog only displays required fields for the selected issue type.

- A JIRA administrator can configure other fields to be required (and so displayed) from within JIRA. See [Specifying Field Behaviour](#).
- Not all field types are supported. In particular, unbundled custom field types are not supported. See [Supported fields for inline issue creation](#).
- If *any* required field for the selected issue type is not supported, Crucible displays an error, with a link to create the issue directly in JIRA. This link will pre-populate the project, issue type, summary and description fields, but will not create a link from the comment to the issue.

In the new issue in JIRA, you see a link back to the comment in Crucible. However:

- Issue links may be disabled in JIRA.
- The JIRA login that Crucible uses needs permission to create links.
- The FishEye plugin (available from the [Atlassian Marketplace](#)) must be installed in JIRA for permission checking on the display of issue links in JIRA.

You can disable the Inline Issue Creation plugin in Crucible to restore the earlier behaviour.

### User management limitations and recommendations

This page describes the optimal configurations and limitations that apply when you are connecting Crucible to JIRA for user management.

#### On this page:

- [Recommendations for connecting to JIRA for user management](#)
  - [Single Sign-On Across Multiple Applications is Not Supported](#)
  - [Custom Application Connectors are Not Supported](#)
  - [Custom Directories are Not Supported](#)
  - [Optimal Number of Users and Applications](#)
  - [JIRA OnDemand not supported](#)
  - [Recommendations](#)
- [Related pages](#)

#### Recommendations for connecting to JIRA for user management

Please consider the following limitations and recommendations when connecting to a JIRA server for user management.

##### Single Sign-On Across Multiple Applications is Not Supported

When you connect to JIRA for user management, you will not have single sign-on across the applications connected in this way. JIRA, when acting as a directory manager, does not support SSO.

##### Custom Application Connectors are Not Supported

JIRA, Confluence, FishEye, Crucible and Bamboo can connect to a JIRA server for user management. Custom application connectors will need to use the new REST API.

##### Custom Directories are Not Supported

Earlier versions of JIRA supported OSUser Providers. It was therefore possible write a special provider to obtain user information from any external user directory. This is no longer the case.

##### Optimal Number of Users and Applications

Please consider the following limitations when connecting to a JIRA server for user management:

- Maximum 500 users.
- Maximum 5 connected applications.

##### JIRA OnDemand not supported

You cannot use JIRA OnDemand to manage FishEye standalone users. OnDemand users and your FishEye users need to be managed separately.

##### Recommendations

| Your environment | Recommendation |
|------------------|----------------|
|------------------|----------------|

|  |  |
|--|--|
| <p>If <b>all</b> the following are true:</p> <ul style="list-style-type: none"> <li>• You have fewer than 500 users.</li> <li>• You want to share user and group management across just a few applications, such as one JIRA server and one Confluence server, or two JIRA servers.</li> <li>• You do not need single sign-on (SSO) between JIRA and Confluence, or between two JIRA servers.</li> <li>• You do not have custom application connectors. Or, if you do have them, you are happy to convert them to use the new REST API.</li> <li>• You are happy to shut down all your servers when you need to upgrade JIRA.</li> </ul> | <p>Your environment meets the optimal requirements for using JIRA for user management.</p>   |
| <p>If <b>one or more</b> of the following are true:</p> <ul style="list-style-type: none"> <li>• You have more than 500 users.</li> <li>• You want to share user and group management across more than 5 applications.</li> <li>• You need single sign-on (SSO) across multiple applications.</li> <li>• You have custom applications integrated via the Crowd SOAP API, and you cannot convert them to use the new REST API.</li> <li>• You are not happy to shut down all your servers when you need to upgrade JIRA.</li> </ul>   | <p>We recommend that you install <a href="#">Atlassian Crowd</a> for user management and SSO.</p>  |
| <p>If you are considering creating a custom directory connector to define your own storage for users and groups...</p>   | <p>Please see if one of the following solutions will work for you:</p> <ul style="list-style-type: none"> <li>• If you have written a custom provider to support a specific LDAP schema, please check the supported LDAP schemas to see if you can use one of them instead.</li> <li>• If you have written a custom provider to support nested groups, please consider enabling nested groups in the supported directory connectors instead.</li> <li>• If you have written a custom provider to connect to your own database, please consider loading the data into the application's database instead.</li> <li>• If you need to keep the custom directory connection, please consider whether <a href="#">Atlassian Crowd</a> meets your requirements. See the documentation on <a href="#">Creating a Custom Directory Connector</a>.</li> </ul> |

### Related pages

[Linking Crucible to JIRA](#)

### Supported fields for inline issue creation

Inline issue creation allows a user to create a JIRA issue from a review comment. See [Creating JIRA issues from the review](#).

This requires JIRA 5.0, or later, and is disabled if Crucible is integrated with an earlier version of JIRA. See [Linking Crucible to JIRA](#).

When creating the issue, the Create Issue dialog only displays required fields for the selected issue type. However, a JIRA administrator can configure other fields to be required (and so displayed) from within JIRA. See [Specifying Field Behavior](#).

Note that:

- Unbundled custom field types in JIRA are not supported for inline issue creation.
- If *any* required field for the selected issue type is not supported, Crucible displays an error, with a link to create the issue directly in JIRA. This link will pre-populate the project, issue type, summary and description fields, but will not create a link from the comment to the issue.

The tables below list the supported JIRA field types.

#### Built-in fields

| Field Name        | Supported |
|-------------------|-----------|
| Affects Version/s | YES       |
| Assignee          | N/A       |
| Attachment        | N/A       |
| Comments          | N/A       |
| Component/s       | YES       |
| Description       | YES       |
| Due Date          | NO        |
| Environment       | YES       |
| Fix Version/s     | YES       |
| Issue Type        | N/A       |
| Labels            | YES       |
| Linked Issues     | NO        |
| Log Work          | NO        |
| Priority          | YES       |
| Reporter          | N/A       |
| Resolution        | N/A       |
| Security Level    | YES       |
| Summary           | YES       |
| Time Tracking     | YES       |

#### Bundled custom field types

| Field Name        | Supported |
|-------------------|-----------|
| Bug Import Id     | N/A       |
| Date Picker       | NO        |
| Free Text Field   | YES       |
| Hidden Job Switch | NO        |
| Job Checkbox      | NO        |

|                       |     |
|-----------------------|-----|
| Multi Checkboxes      | NO  |
| Multi Select          | NO  |
| Number Field          | YES |
| Radio Buttons         | NO  |
| Select List           | NO  |
| Text Field            | YES |
| User Picker           | NO  |
| Cascading Select      | NO  |
| Date Time             | NO  |
| Group Picker          | NO  |
| Import Id             | N/A |
| Labels                | YES |
| Multi Group Picker    | NO  |
| Multi User Picker     | NO  |
| Project Picker        | YES |
| Read-only Text Field  | N/A |
| Single Version Picker | YES |
| URL Field             | YES |
| Version Picker        | YES |

## Using Crucible gadgets

This page explains how to add a Crucible gadget to a JIRA dashboard. The process is similar for [adding a gadget](#) to a Confluence page.

*On this page:*

- [Overview of Crucible gadgets](#)
- [1. Add an application link from FishEye to JIRA](#)
- [2. Add the Crucible gadget to JIRA's Gadget Directory](#)
- [3. Add the Crucible gadget to a JIRA dashboard](#)

### Overview of Crucible gadgets

As of the release of Crucible 2.3, you can display Crucible data in other Atlassian applications, such as JIRA and Confluence, by using Crucible gadgets.

Crucible bundles the following gadgets by default:

| Gadget Name | Description and Gadget URL | <a href="#">Screenshot</a> |
|-------------|----------------------------|----------------------------|
|-------------|----------------------------|----------------------------|





**Hassle Review Blockers**

This gadget shows you who you are still waiting on; in other words, which reviewers haven't completed your reviews.

The URL for this gadget is:

```
http://HOSTNAME:8060
/rest/gadgets/1.0/g/
com.atlassian.fecru.
fecru-gadgets-plugin
:overdueReviews/gadg
ets/hassle.xml
```

Where `HOSTNAME:8060` is the hostname of your Crucible instance.

| Crucible: Hassle Review Blockers  |      |   |             |
|---|------|---|-------------|
| reviewer  | ID   | Name  | Due         |
|  | CR-1 | FE-1234: fix Widget stamping (1 unread comment) | in 6 days   |
|  | CR-1 | FE-1234: fix Widget stamping (1 unread comment) | in 6 days   |
|   | CR-4 | FE-4567: Disentangle states                     | in 10 hours |

**Overdue Reviews**

This gadget shows you reviews that are yet to be completed in the project, across all authors. This is useful for managers or team leads.

The URL for this gadget is:

```
http://HOSTNAME:8060
/rest/gadgets/1.0/g/
com.atlassian.fecru.
fecru-gadgets-plugin
:overdueReviews/gadg
ets/overdueReviews.x
ml
```

Where `HOSTNAME:8060` is the hostname of your Crucible instance.

| Crucible: Overdue reviews in All Projects |                             |                |
|---|-----------------------------|----------------|
| ID  | Name                        | Due            |
| CR-3                                      | FE-3456: Make stuff nicer   | 49 minutes ago |
| CR-4                                      | FE-4567: Disentangle states | in 10 hours    |

**Review Inbox**

This gadget is a list of Crucible to-do items including reviews to do, comments to read or reviews to summarise.

The URL for this gadget is:

```
http://HOSTNAME:8060
/rest/gadgets/1.0/g/
com.atlassian.fecru.
fecru-gadgets-plugin
:overdueReviews/gadg
ets/todo.xml
```

Where `HOSTNAME:8060` is the hostname of your Crucible instance.

| Crucible: Review Inbox |      |   |                |
|------------------------|------|---|----------------|
| state                  | ID   | Name  | Due            |
| Summarize              | CR-3 | FE-3456: Make stuff nicer                       | 35 minutes ago |
| Respond                | CR-1 | FE-1234: fix Widget stamping (1 unread comment) | in 6 days      |
| Review                 | CR-2 | FE-2345: Repair Things                          | in 6 days      |

## Review Coverage

This gadget shows content from the innovative Review Coverage report, letting you investigate how much of your codebase has been under code review.

The URL for this gadget is as follows:

```
http://HOSTNAME:8060
/rest/gadgets/1.0/g/
com.atlassian.fisheye.review-coverage-report/gadgets/recent-changesets.xml
```

Where `HOSTNAME:8060` is the hostname of your Crucible instance.



A known bug may be preventing this gadget to be used. Please track















**CRUC-6186** - 'Resource not found' Error in Review Coverage Gadget [OPEN](#)

for resolution.

Changeset Review Coverage

FE/ 0% code reviewed

Past 7 days Full Report

| User  | Message                            | % Reviewed | Files  | Lines | Reviews | Date   |
|---|------------------------------------|------------|--------|-------|---------|--------|
|  | Remove System.out.println()        | 1          | 1      | 1     | -       | May 19 |
|  | Avoid NPE in eye() with no returns | 1          | 9      | -     | -       | May 19 |
|  | NONE: If the 500 page throws an    | 1          | 123    | -     | -       | May 19 |
|  | NONE: fix tests                    | 1          | 6      | -     | -       | May 19 |
|  | Remove TODO in error message       | 1          | 2      | -     | -       | May 19 |
|  | CRUC-3529: Fix NPE linking to re   | 2          | 16     | -     | -       | May 19 |
|  | Fix checkstyle                     | 1          | 1      | -     | -       | May 19 |
|  | CRUC-3529: Revert RSS links        | 1          | 2      | -     | -       | May 19 |
|  | CRUC-3529: Rewrite /snippets       | 6          | 51     | -     | -       | May 19 |
|  | CRUC-3543: fix bug where user's    | 1          | 28     | -     | -       | May 19 |
|  | branch for 2.3.x                   | 6904       | 609616 | -     | -       | May 19 |
|  | CRUC-3548: fix Crucible inclusion  | 3          | 8      | -     | -       | May 19 |
|  | CRUC-3445: snippet comment pr      | 9          | 129    | -     | -       | May 19 |
|  | CRUC-3440: review rework           | 1          | 2      | -     | -       | May 19 |

Create Review

### 1. Add an application link from FishEye to JIRA

Go to the [admin area](#) in FishEye and [set up an application link](#) from FishEye to JIRA.

When completing the wizard, leave the **Also create a link** checkbox selected, and choose the **These servers fully trust each other** option.

### 2. Add the Crucible gadget to JIRA's Gadget Directory

As a JIRA administrator you allow the use of these gadgets by adding them to the Gadget Directory. You'll need the URL listed in the table above for each gadget that you want to add.

See the [JIRA documentation](#) for details on this process.

### 3. Add the Crucible gadget to a JIRA dashboard

As a JIRA user, you can [add gadgets to a JIRA dashboard](#) that you have created.

Once added, the gadget will appear on your JIRA dashboard and display information drawn from Crucible and FishEye.

You can also add Crucible gadgets to the Confluence dashboard. See the [General Gadgets Documentation](#) for more information.

## Linking to another application

Application Links (sometimes called "AppLinks") is a bundled plugin that allows you to link Atlassian applications to each other. Linking two applications allows you to share information and access one application's functions and resources from within the other.

**Related pages:**

- [Integrating Crucible with other applications](#)
- [Configuring Application Links](#)

1. Click the 'cog' menu in the Crucible header, and choose **Administration**. You need to be logged in as an [administrator](#) to see this.
2. Choose **Application Links** in the left-hand panel. The Application Links configuration page displays links that have already been set up.
3. In the **Application URL** box, supply the URL of the application you want to link to and then select **Create new link**.
4. Use the wizard to finish configuring the link. If the application you are linking to does not have the Application Links plugin, you must supply additional information so the link can be set up. This information is required to set up a link with OAuth authentication.





When you complete the wizard, the Application Links plugin will create the link between your applications using the most secure authentication method that is supported between the two application types. After the link has been set up, it will appear on the "Configure Application Links" page. You can use this page to change the configuration of application links to make them more secure or to change the link settings:

- To edit the settings of the application link (for example, to [change the authentication type](#) of the link), select **Edit**.
- If you've set up multiple links to the same type of application (for example, multiple JIRA servers), you can use the **Make Primary** link to specify which application is the default instance. See [Making a Primary Link for Links to the Same Application Type](#) for more information.
- After you've linked applications, you also connect the areas of those applications that contain information relating to your project or team (for example, you can connect a project's Confluence space with a JIRA project). These types of links are called [project links](#).

## Configuring Application Links

An application link is a trust relationship between two applications. Linking two applications allows you to share information and to access one application's functions from within the other.

For example, you may want to set up a trust relationship between Crucible and two JIRA servers.

| Configure Application Links <sup>?</sup>  |             |   |                                      |                                      |   |   |  Add Application Link |
|---|-------------|---|--------------------------------------|--------------------------------------|---|---|--|
| Name  | Application | Application URL   | Incoming Authentication <sup>?</sup> | Outgoing Authentication <sup>?</sup> | Primary   | Actions   |  |
|  JDOG              | JIRA        | <a href="https://jdog.atlassian.com/secure/Dashboard.jspa">https://jdog.atlassian.com/secure/Dashboard.jspa</a> | Trusted Applications                 | none                                 |   | <a href="#">Configure</a>   <a href="#">Delete</a>   <a href="#">Make Primary</a> |  |
|  Your Company JIRA | JIRA        | <a href="http://localhost:8080">http://localhost:8080</a>   | Trusted Applications                 | Trusted Applications                 |  | <a href="#">Configure</a>   <a href="#">Delete</a>                                |  |

Screenshot above: Application links to two JIRA servers

### Related Topics

- [Adding an application link](#)
- [Configuring Authentication for an Application Link](#)
- [Deleting an Application Link](#)
- [Editing an Application Link](#)
- [Making an application link the primary link](#)
- [Relocating an Application Link](#)
- [Upgrading an Application Link](#)
- [Configuring Project Links across Applications](#)

### Adding an application link

This page describes how to add a new application link in Crucible. The process for adding an application link depends on whether or not the application you are linking Crucible to supports Atlassian's Application Links.

If you are linking Crucible to an application that does not have Application Links, you will need to do additional configuration in that application. This is because Application Links in Crucible will not be able to automatically configure authentication in your remote application.

**On this page:**

- Before you begin
- For applications that support Application Links
- For applications that do not support Application Links

**Before you begin**

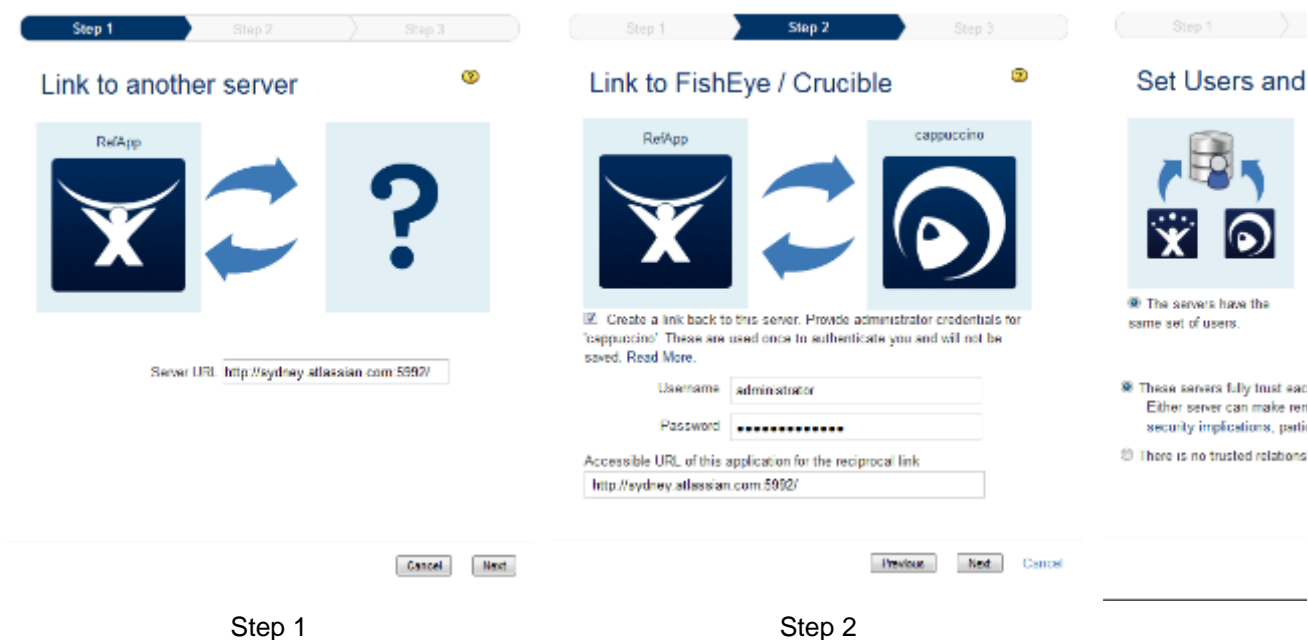
Check the following settings. This is required for synchronisation to work correctly:

- Make sure that the base URL is set correctly in Crucible. See the [FishEye documentation on configuring the web server](#).
- Make sure that the base URL is set correctly in the application you wish to link to. See the appropriate instructions for [JIRA](#), [FishEye](#), [Bamboo](#) and [Confluence](#).

**For applications that support Application Links****To link to an application that supports Application Links:**

1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click '**Add Application Link**'. Step 1 of the link wizard will appear.
3. Enter the **server URL** of the application that you want to link to (the 'remote application').
4. Click the '**Next**' button. Step 2 of the link wizard will appear.
5. Enter the following information:
  - '**Also create a link from 'XYZ' back to this server**' – Select this option if you want to create a two-way link between the remote application (which in this case is called 'XYZ') and your application. If you want to do this, you will need to enter the username and password of an administrator for the remote application.
  - **Please Note:**
    - These credentials are not saved. They are only used at this step of the wizard to authenticate with the remote application, so that a reciprocal Application Link can be created in the remote application back to your application.
    - If the the remote application is JIRA or Confluence, these credentials need to be a user account with the system administrator global permission.
  - '**Reciprocal Link URL**' – The URL you give here will override the base URL specified in your remote application's administration console, for the purposes of the application links connection. Application Links will use this URL to access the remote application.
6. Click the '**Next**' button. Step 3 of the link wizard will appear.
7. Enter the information required to configure authentication for your application link:
  - '**The servers have the same set of users *and* usernames**' or '**The servers have either different sets of users or usernames**' – Select one of these options depending on how you manage users between the two applications.
  - '**These servers fully trust each other**' – Select this option if you fully understand and trust the behaviour of both applications at all times and are sure that each application will maintain the security of their private key.  
*For more information about configuring authentication, see [Configuring Authentication for an Application Link](#).*
8. Click the '**Create**' button to create the application link.

*Screenshots: Adding an application link to an application that supports Application Links (click to view full-sized images)*

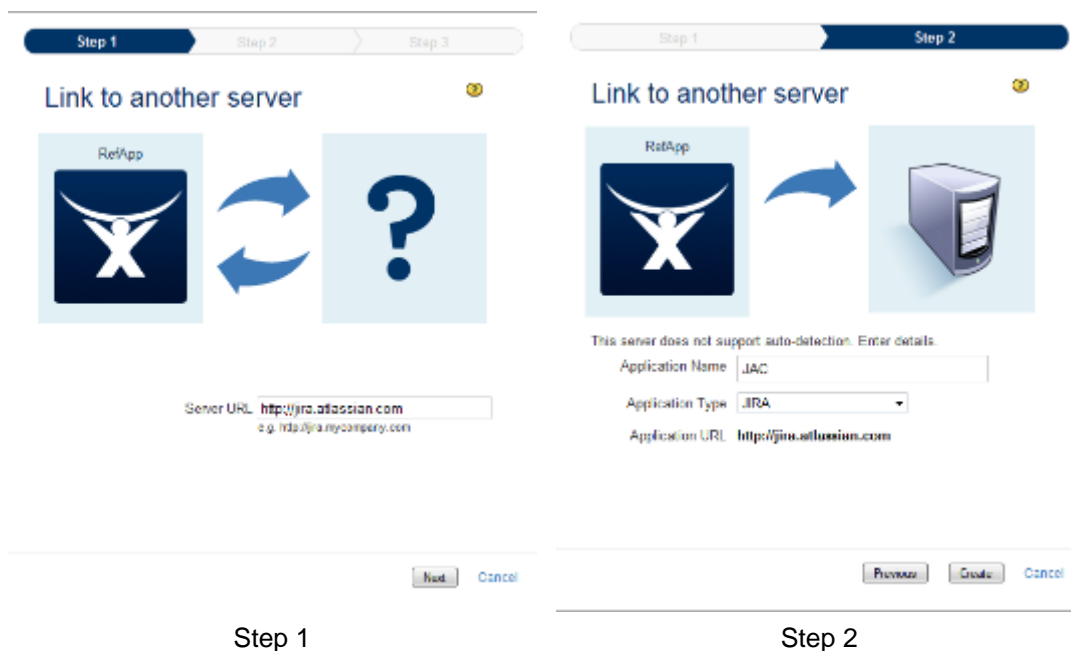


For applications that do not support Application Links

#### To link to an application that does not support Application Links:

1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click '**Add Application Link**'. Step 1 of the 'Link to another server' dialogue will be displayed.
3. Enter the server URL of the application that you want to link to, in the '**Server URL**' field. Click the '**Next**' button. Step 2 of the 'Link to another server' dialogue will be displayed.
4. Fill out the fields, as follows:
  - '**Application Name**' — Enter the name by which this remote application will be referred to, in your application.
  - '**Application Type**' — Select the type of application that you are linking to: Generic, FishEye/Crucible, Confluence, Stash, Bamboo, JIRA.
  - '**Application URL**' — This will be set to the server URL you entered in the previous step and will not be editable.
5. Click the '**Create**' button to create the application link. The 'Configure Application Links' page will be displayed, listing all of the application links that have currently been set up for your application including the one you just added.
6. Configure the desired authentication type (Trusted Applications, OAuth, basic HTTP, none) for your new application link.
7. In your application that does not support Application Links, configure the same type of authentication that you configured for your application link's *outgoing* authentication (in the previous step). For example, if you configured outgoing Trusted Applications authentication in your Application-Links-enabled application, you also need log into your non-Application-Links application and manually configure Trusted Applications (see the relevant administrator's documentation for the application).  
 For more information about configuring authentication, see [Configuring Authentication for an Application Link](#).

*Screenshots: Adding an application link to an application that does not support Application Links (click to view full-sized images)*



## Related Topics

[Making an application link the primary link](#)  
[Configuring authentication for an Application Link](#)  
[Configuring project links across applications](#)  
[Configuring Authentication for an Application Link](#)

When you configure authentication for an application link, you are defining the level of trust between Crucible and the application that it is linked to.

### On this page:

- [Choosing Authentication for an Application Link](#)
- [Security Implications for each Authentication Type](#)
- [About Primary Authentication Types](#)
- [About Impersonating and Non-Impersonating Authentication Types](#)

### Choosing Authentication for an Application Link

The level of authentication that you should configure for your application link depends on a number of factors.

- Do the two applications trust each other? In other words, are you sure that the code in the application will behave itself at all times and that the application will maintain the security of its private key?
- Do the two applications share the same user base?
- Do you have administrative access to the application you are linking to?

### Common scenarios include:

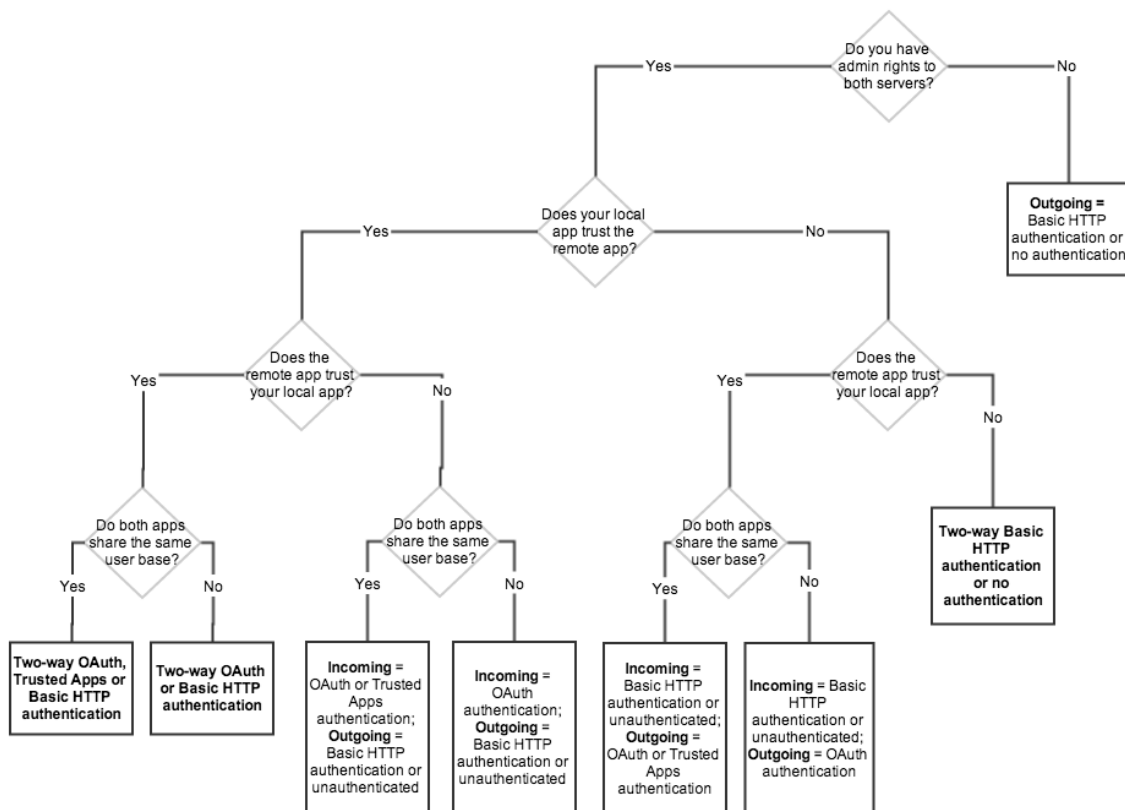
- If the two applications you are linking **trust each other** and **share the same user base**, configure **two-way authentication using Trusted Applications** for both incoming and outgoing authentication. For example, you may link your internal Crucible server to an internal JIRA server.
- If the two applications you are linking **trust each other** but **do not share the same user base**, configure **two-way authentication using OAuth** for both incoming and outgoing authentication. For example, you may link your internal Crucible server to an external (customer-facing) JIRA server.
- If you **do not have administrative rights to the application that you are linking to** (for example, linking to a public Crucible server), configure a **one-way outgoing link** authenticated using **basic HTTP authentication** or **do not configure any authentication** for the link. For example, you may link your external Crucible server to a partner organisation's Crucible server. An unauthenticated link will still allow the local application to render hyperlinks to the remote application or query anonymously-accessible APIs.

The flowchart below provides a guide to what authentication you should configure for your application link.



Read the following topics for information on how to configure authentication for an application link:

- [Configuring Basic HTTP Authentication for an Application Link](#)
- [Configuring OAuth Authentication for an Application Link](#)
- [Configuring Trusted Applications Authentication for an Application Link](#)
- [Incoming and Outgoing Authentication](#)



Flowchart above: Determining what authentication to configure for an Application Link

#### Security Implications for each Authentication Type

If you configure **Trusted Applications authentication** for your application (meaning that your servers have the same set of users and they fully trust each other) please be aware of the following security implications:

- Trusted applications are a **potential security risk**. When you configure Trusted Applications authentication, you are allowing one application to access another as any user. This allows all of the built-in security measures to be bypassed. Do not configure a trusted application unless you know that all code in the application you are trusting will behave itself at all times, and you are sure that the application will maintain the security of its private key.

If you configure **OAuth authentication** for your application (meaning that your servers have different sets of users and they fully trust each other) please be aware of the following security implications:


- Adding an OAuth consumer requires the transmission of sensitive data. To prevent '[man-in-the-middle attacks](#)', it is recommended that you **use SSL** for your applications while configuring OAuth authentication.
- Do not link to an application using OAuth authentication, unless you **trust all code in the application** to behave itself at all times. OAuth consumers are a potential security risk to the applications that they are linked to because of the ability to impersonate users. If your server is compromised, the data there and on linked servers is at risk.
- Note that creating a new application link now uses OAuth by default and enables both 3-legged OAuth (3LO) and 2-legged OAuth (2LO).
- When updating older application links (that perhaps used Trusted Apps authentication) to use OAuth, 3LO is used by default, but you need to explicitly enable 2LO using the check box in the application link configuration settings.
- Only use the 2LO with impersonation option in the application link configuration settings if your servers both have the same set of users and they fully trust each other.

Step 1

Step 2

Step 3

## Set Users and Trust ?



☒ The servers have the same set of users.



☐ The servers have different sets of users.

☒ These servers fully trust each other.  
 Either server can make remote requests as any user. [Read more on the security implications](#), particularly if you have public signup enabled.

☐ There is no trusted relationship between these servers.


Previous

Create

Cancel

Screenshot above: Configuring authentication during application link setup

### About Primary Authentication Types

You can configure multiple authentication types for each application link. When a feature makes a request using an Application Link, it will use one of the configured authentication types. If more than one authentication type is configured, it will by default use the authentication type that is marked as the primary authentication type. The default authentication type is indicated by the green tick  next to the authentication type on the list application link screen.

You **cannot** configure which authentication type is the primary authentication type. The primary authentication type is determined automatically by Application Links and depends on a weight defined by each authentication type method. However, every feature that uses Application Links can also choose to use a specific authentication type and might not use the default primary authentication type.

### About Impersonating and Non-Impersonating Authentication Types

Applications Links allows you to configure 'impersonating' and 'non-impersonating' authentication types:

- **Impersonating authentication types** make requests on behalf of the user who is currently logged in. People will see only the information that they have permission to see. This includes [OAuth](#) and [Trusted Applications](#) authentication.
- **Non-impersonating authentication types** always use a pre-configured user when making a request. Everyone logged into the system will see the same information. This includes [basic HTTP authentication](#).

### Configuring Basic HTTP Authentication for an Application Link



This page describes how to configure **Basic HTTP authentication** for an application link.

Basic HTTP authentication allows Crucible to provide user credentials to a remote application and vice versa. Once authenticated, one application can access functions and data in the other application, on behalf of that user. For example, if you supply the credentials of a Crucible administrator on your Crucible server to a remote application, the remote application will be able to access all the functions on your Crucible server that the Crucible administrator can access.

This method of authentication relies on the connection between Crucible and the remote application being secure. We recommend that you use [OAuth authentication](#) for your application link instead, if possible.

**On this page:**

- [Before You Begin](#)
- [To link Crucible to another application](#)
- [To edit an existing application link](#)

**Before You Begin**

- You must be a Crucible administrator to configure Basic HTTP authentication for an application link.
- These instructions assume that **both of the applications that you are linking have the Application Links plugin installed**. If the remote application that you are linking to supports Basic HTTP authentication, but does not have the Application Links plugin installed, you will need to configure Basic HTTP authentication from within the remote application. See the relevant administrator's documentation for that application. This is in addition to configuring the outgoing/incoming authentication for the application link described below.

**To link Crucible to another application**

1. Click **Application Links** (under 'Global Settings') in the Crucible admin area.
2. Enter the URL for the application you want to link to and click **Create new link**.
3. Complete the application link wizard. You should make use of the automatic link-back (if available) to get full integration (you'll need administrator global permission on the other application for that).

More detailed information about application links can be found on [Configuring Application Links](#).

**To edit an existing application link**

1. Click **Application Links** (under 'Global Settings') in the Crucible admin area.
2. Click **Edit** for the application link you want to update.
3. Edit the details and credentials on the **Incoming** and **Outgoing** tabs for the relevant authentication method.

**Related Topics**

[Configuring OAuth Authentication for an Application Link](#)

[Configuring Trusted Applications Authentication for an Application Link](#)

**Configuring OAuth Authentication for an Application Link**

This page describes how to configure **OAuth** for outgoing authentication and/or incoming authentication for an application link.

**OAuth** is a protocol that allows a web application to share data/resources with any other OAuth-compliant application. These applications could be another web application (such as a JIRA site or an [iGoogle](#) home page), a desktop application or a mobile device application, provided that they are accessible from within your network or available on the Internet.

A typical scenario is to set up an application link between two applications which trust each other, have the Application Links plugin installed, but do not share the same set of users. In this case, you would configure OAuth for both outgoing and incoming authentication.

**On this page:**

- [Before You Begin](#)
- [Configuring OAuth for Outgoing Authentication](#)
- [Configuring OAuth for Incoming Authentication](#)

**Related pages:**

- [Configuring Basic HTTP Authentication for an Application Link](#)
- [Configuring Trusted Applications Authentication for an Application Link](#)

**Before You Begin**

- Adding an OAuth consumer requires the transmission of sensitive data. To prevent '[man-in-the-middle attacks](#)', it is recommended that you **use SSL** for your applications while configuring OAuth authentication.
- Do not link to an application using OAuth authentication, unless you **trust all code in the application** to behave itself at all times. OAuth consumers are a potential security risk to the applications that they are linked to because of the ability to impersonate users. If your server is compromised, the data there and on linked servers is at risk.
- Note that creating a new application link now uses OAuth by default and enables both 3-legged OAuth (3LO) and 2-legged OAuth (2LO).
- When updating older application links (that perhaps used Trusted Apps authentication) to use OAuth, 3LO is used by default, but you need to explicitly enable 2LO using the check box in the application link configuration settings.
- Only use the 2LO with impersonation option in the application link configuration settings if your servers both have the same set of users and they fully trust each other.
- These instructions assume that **both of the applications that you are linking have the Application Links plugin installed**. If the remote application supports OAuth but does not have the Application Links plugin installed, you will need to configure OAuth from within the remote application (see the administrator's documentation for the application) in addition to configuring the outgoing/incoming authentication for the application link as described below.
- You must be a Crucible administrator to configure OAuth authentication for an application link.

**Configuring OAuth for Outgoing Authentication**

Configuring outgoing OAuth authentication will allow Crucible to access data in a remote application on behalf of a user. In other words, Crucible can access specified functions in the remote application.

**To configure OAuth authentication for an outgoing application link:**

1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Edit**' link next to the application link that you want to configure OAuth for.
3. Click the '**Outgoing Authentication**' tab. The outgoing authentication page will be displayed.
4. Click the '**OAuth**' tab.
5. If you are not currently logged in to the remote application (or you logged in to the remote application under a variant of the application's hostname, such as the IP address), a login dialogue will display.
  - Enter the '**Username**' and '**Password**' for the remote server, not your local server, and click the '**Login**' button. The remote server needs to learn the identity of your local server for the OAuth protocol to work and your admin credentials are used to store your local server's public key on the remote server. If you are already logged into your remote server, then the appropriate changes can be made without having to log in again.
6. Click the '**Enable**' button to enable OAuth authentication for the outgoing link.

### Configuring OAuth for Incoming Authentication

Configuring incoming OAuth authentication will allow the remote application to access data in Crucible.

#### To configure OAuth authentication for an incoming application link:

1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Edit**' link next to the application link that you want to configure OAuth for.
3. Click the '**Incoming Authentication**' tab. The incoming authentication page will be displayed.
4. Click the '**OAuth**' tab.
5. Click the '**Enable**' button to enable OAuth authentication for the incoming link.

### Configuring Trusted Applications Authentication for an Application Link

This page describes how to configure **Trusted Applications** for outgoing and/or incoming authentication for an application link.

Trusted Applications authentication allows one application to gain access to specified functions within another application on behalf of any user, without the user having to log in to the second application.

A typical scenario is to set up an application link between two applications which trust each other, have the same set of users and have the application links plugin installed. In this case, you would configure Trusted Applications for both outgoing and incoming authentication.

#### On this page:

- [Before You Begin](#)
- [Configuring Trusted Applications for Outgoing Authentication](#)
- [Configuring Trusted Applications for Incoming Authentication](#)

#### Before You Begin

- Trusted applications are a **potential security risk**. When you configure Trusted Applications authentication, you are allowing one application to access another as any user. This allows all of the built-in security measures to be bypassed. Do not configure a trusted application unless you know that all code in the application you are trusting will behave itself at all times, and you are sure that the application will maintain the security of its private key.
- The instructions below assume that **both of the applications that you are linking have the Application Links plugin installed**. If the remote application supports Trusted Applications but does not have the Application Links plugin installed, you will need to configure Trusted Applications from within the remote application (see the relevant administrator's documentation for the application) in addition to configuring the outgoing/incoming authentication for the application link as described below.
- You must be a Crucible administrator to configure Trusted Applications authentication for an application link.


### Configuring Trusted Applications for Outgoing Authentication

Configuring **outgoing Trusted Applications authentication** will allow the remote application to trust Crucible. In other words, Crucible will be able to access specified functions and data on the remote application.

#### To configure Trusted Applications authentication for an outgoing application link:

1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Configure**' link next to the application link that you want to configure Trusted Applications authentication for.
3. Click the '**Outgoing Authentication**' tab. The outgoing authentication page will show, with the '**Trusted**

**Applications'** tab displayed.

4. If you are not currently logged into the remote application (or you logged into the remote application under a variant of the application's hostname, e.g. the IP address), a login dialogue will display.
  - Enter the '**Username**' and '**Password**' for the remote server, (not your local server), and click the '**Login**' button. You need to enter the credentials for the remote server, as the remote server needs to be instructed to trust your local server for the Trusted Applications protocol to work. If you are already logged into your remote server, then the appropriate changes can be made without having to log in again.
5. Configure the settings for the Trusted Applications authentication:
  - '**IP Patterns**' — Enter the IP addresses (IPv4 only) from which the remote application will accept requests (this effectively is the IP address your local server). You can specify wildcard matches by using an asterisk (\*), e.g. '192.111.\*.\*' (note, you cannot use netmasks to specify network ranges). If you are entering multiple IP addresses, separate them with commas or spaces.  
 *Please note, if you are setting up Trusted Applications between two applications that both have the Application Links plugin installed, you can leave this field blank (or explicitly use \*.\*.\*.\*). However, if your remote application does not have the Application Links plugin installed and you are configuring the IP Patterns in the remote application (not the Application Links plugin), **you must not leave this field blank nor use \*.\*.\*.\***. Failure to configure IP address restrictions in this scenario is a security vulnerability, allowing an unknown site to log into your site under a user's login ID.*

Consider the following scenarios, if you want to limit access by using this field:

  - If your local application is using a proxy server, you need to add the proxy server's IP address to this field.
  - If your local application is a clustered instance of Confluence, you need to configure the remote server to accept requests from each cluster node. If you do not set up each node appropriately, your Confluence users may not be able to view any information from the remote server. You can set this up by either specifying each individual IP address for each node of the cluster (e.g. 172.16.0.10, 172.16.0.11, 172.16.0.12), or specifying the IP address for the clustered Confluence instance using wildcards (e.g. 172.16.0.\*).
  - '**URL Patterns**' — Enter the URLs in the remote application that your local application will be allowed to access. Each URL corresponds to a particular application function. Enter one URL per line, as follows:
    - If your remote application is JIRA, enter the following URL Patterns: /plugins/servlet/streams, /sr/jira.issueviews:searchrequest, /secure/RunPortlet, /rest, /rpc/soap
    - If your remote application is Confluence, enter the following URL Patterns: /plugins/servlet/streams, /plugins/servlet/applinks/whoami
  - '**Certificate Timeout (ms)**' — Enter the certificate timeout. The default is 10 seconds. The certificate timeout is used to prevent replay attacks. For example, if a Trusted Applications request is intercepted and (maliciously) re-sent, the application will be able to check when the request was first sent. If the second request is sent more than 10 seconds (or whatever the certificate timeout is set to) after the initial request, it will be rejected. Please note, you should not have to change the default value of this field for most application links. Note that the certificate timeout relies on the clocks on both servers being synchronised.
6. Click the '**Apply**' button to save your changes.

#### Configuring Trusted Applications for Incoming Authentication


Configuring **incoming Trusted Applications authentication** will allow Crucible to trust the remote application. The remote application will be able to access specified functions and data on Crucible.

#### To configure Trusted Applications authentication for an incoming application link:

1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Configure**' link next to the application link that you want to configure Trusted Applications authentication for.
3. Click the '**Incoming Authentication**' tab. The incoming authentication page will show, with the '**Trusted Applications**' tab displayed.
4. The tab will show whether Trusted Applications is currently enabled or not. Use the '**Modify**' or '**Configure**' button to configure Trusted Applications. The Trusted Applications configuration settings will be

displayed:

- **'IP Patterns'** — Enter the IP addresses (IPv4 only) from which our application will accept requests. You can specify wildcard matches by using an asterisk (\*), e.g. '192.111.\*.\*' (note, you cannot use netmasks to specify network ranges). If you are entering multiple IP addresses, separate them with commas or spaces.

 *Please note, if you are setting up Trusted Applications between two applications that both have the Application Links plugin installed, you can leave this field blank (or explicitly use \*.\*.\*.\*). However, if your remote application does not have the Application Links plugin installed and you are configuring the IP Patterns in the remote application (not the Application Links plugin), **you must not leave this field blank nor use \*.\*.\*.\***. Failure to configure IP address restrictions in this scenario is a security vulnerability, allowing an unknown site to log into your site under a user's login ID.*

Consider the following scenarios, if you want to limit access by using this field:

- If the remote application is using a proxy server, you need to add the proxy server's IP address to this field.
- If the remote application is a clustered instance of Confluence, you need to accept requests from each cluster node. If you do not specify each node's address, Confluence users may not be able to view any data from your application. You can set this up by either specifying each individual IP address for each node of the cluster (e.g. 172.16.0.10, 172.16.0.11, 172.16.0.12), or specifying the IP address for your clustered Confluence instance using wildcards (e.g. 172.16.0.\*).
- **'URL Patterns'**— Enter the local URLs that the remote application will be allowed to access. Each URL corresponds to a particular application function. Enter one URL per line, as follows:
  - If your local application is JIRA, enter the following URL Patterns — /plugins/servlet/streams, /sr/jira.issueviews:searchrequest, /secure/RunPortlet, /rest, /rpc/soap
  - If your local application is Confluence, enter the following URL Patterns — /plugins/servlet/streams, /plugins/servlet/applinks/whoami
- **'Certificate Timeout (ms)'** — Enter the certificate timeout. The default is 10 seconds. The certificate timeout is used to prevent replay attacks. For example, if a Trusted Applications request is intercepted and (maliciously) re-sent, the application will be able to check when the request was first sent. If the second request is sent more than 10 seconds (or whatever the certificate timeout is set to) after the initial request, it will be rejected. Please note, you should not have to change the default value of this field for most application links. Note that the certificate timeout relies on the clocks on both servers being synchronised.

5. Click the **'Apply'** button to save your changes.

Related Topics

[Configuring Basic HTTP Authentication for an Application Link](#)

[Configuring OAuth Authentication for an Application Link](#)

### Incoming and Outgoing Authentication

When you configure authentication for an application link, you are defining the level of trust between the two linked servers. When configuring a link from one application to another, you can set up:

- **Incoming authentication** (authentication of requests coming from a linked application into this application).
- **Outgoing authentication** (authentication of requests sent from this application to a linked application).

See [Configuring Authentication for an Application Link](#).

### Deleting an Application Link

Deleting an application link stops the two applications from sharing information. You will no longer be able to make requests from one application to the other. This means that certain integration features may not work.

If you have set up application links to multiple servers of the same application type, for example you have linked Crucible to multiple JIRA servers, deleting the [primary link](#) will mean that another of the links will be made the primary link.

Deleting an application link will also [delete all project links](#) set up for that application link.

### To delete an application link:

1. Log in as a system administrator and go to the administration page. Click **'Application Links'** in the

administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.

2. Click the '**Delete**' link next to the application link that you want to delete. A confirmation screen will be displayed.
3. Click the '**Confirm**' button to delete the application link.

#### RELATED TOPICS

[Editing an Application Link](#)

[Relocating an Application Link](#)

[Editing an Application Link](#)

You can change the details, such as the application name and display URL, for an existing application link.

#### To edit an application link:

1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Configure**' link next to the application link that you want to edit the details for. The application details for the application link will be displayed.
3. Update the application details as desired. Please note, you cannot update the Application Type nor the Application URL.
  - '**Application Name**' — Update this field to change the display name for the application that you are linking to.
  - '**Display URL**' — This URL is used when displaying links to the application in the browser. When creating the application link, you may have used a URL that is not accessible to other users, such as an internal IP address. If so, you can change the display URL to an address in a domain that is accessible to other users.
4. Click the '**Update**' button to save your changes.

**Configure JAC**

**Application Details**

Outgoing Authentication

Incoming Authentication

Application Name

Application Type **JIRA**

Application URL **http://jira.atlassian.com**  
This is the URL used to connect to the application.

Display URL   
The display URL is used when rendering links to the application.

[Close](#)

Screenshot above: *Editing an application link*



## Related Topics

### Configuring Authentication for an Application Link

#### Making an application link the primary link


#### Making an application link the primary link

If you have set up application links to more than one of the same application type, for example you have linked Crucible to two JIRA servers, then one of the servers will be marked as the 'primary' link. This means that any outgoing requests will be directed to the primary link's application.

For example, if you have linked a Crucible server to two JIRA servers with two-way authentication for both links, you can nominate an application link to one of the JIRA servers as the primary link. Every time Crucible requests JIRA information, it will request it from the primary link's JIRA server. Both JIRA servers can still make requests of the Crucible server.

Please see [Configuring Project Links across Applications](#) for information on how primary project links also influence the information shared between servers.

#### To make an application link the primary link:


1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click the '**Make Primary**' link next to the application link that you want to make the primary link. A '✓' symbol will display in the 'Primary' column next to the application link.  
 *The 'Primary' column and 'Make Primary' link will only display if you have set up application links to more than one of the same application type, e.g. you have linked your application to two JIRA servers.*


## Relocating an Application Link


This page describes how to change the location of an application link. You will need to relocate an application link if the target application has moved to a new address.





#### To relocate an application link:

1. Log in as a system administrator and go to the administration page. Click '**Application Links**' in the administration menu. The 'Configure Application Links' page will appear, showing the application links that have been set up.
2. Click **Relocate** in the warning message (see 'Relocate Link - Updating URL' screenshot below). Note that if the remote application for an application link cannot be reached by your application, the 'List Application Links' page will display a warning message (see the 'Relocate Link - Warning Message' screenshot below).
3. Enter the new URL for the remote application of your application link and click **Relocate**.
4. You will need to confirm the relocation, if the new URL cannot be contacted. Otherwise, the application link will be updated.

 Application Your Company JIRA seems to be offline. [Click here to Relocate](#)
✕

**Configure Application Links** 

 Add Application Link

| Name  | Application | Application URL   | Incoming Authentication  | Outgoing Authentication  | Primary | Actions   |
|---|-------------|---|---|---|---------|---|
|  JDOG              | JIRA        | <a href="https://jdog.atlassian.com/secure/Dashboard.jspa">https://jdog.atlassian.com/secure/Dashboard.jspa</a> | Trusted Applications  | none  |         | <a href="#">Configure</a>   <a href="#">Delete</a>   <a href="#">Make Primary</a> |
|  Your Company JIRA | JIRA        | <a href="http://localhost:8080">http://localhost:8080</a>   | Trusted Applications  | Trusted Applications  | ✓       | <a href="#">Configure</a>   <a href="#">Delete</a>                                |

Screenshot above: Relocate link – The warning message



Screenshot above: Relocate link – Updating the URL

Related Topics

### Making an application link the primary link

#### Upgrading an Application Link

This page describes how to upgrade an existing application link. You may want to upgrade an application link in either of the two situations below:

- Your local Crucible application has been upgraded from a version that does not include Application Links to a version that does.
- Your remote application has been upgraded to a version that includes Application Links. For example, you had set up an application link to a JIRA 4.2 site (does not include Application Links) and have since upgraded to JIRA 4.3 (includes Application Links).

#### On this page:

- [Upgrading an Application Link \(Local App Upgraded to Include Application Links\)](#)
- [Upgrading an Application Link \(Remote App Upgraded to Include Application Links\)](#)

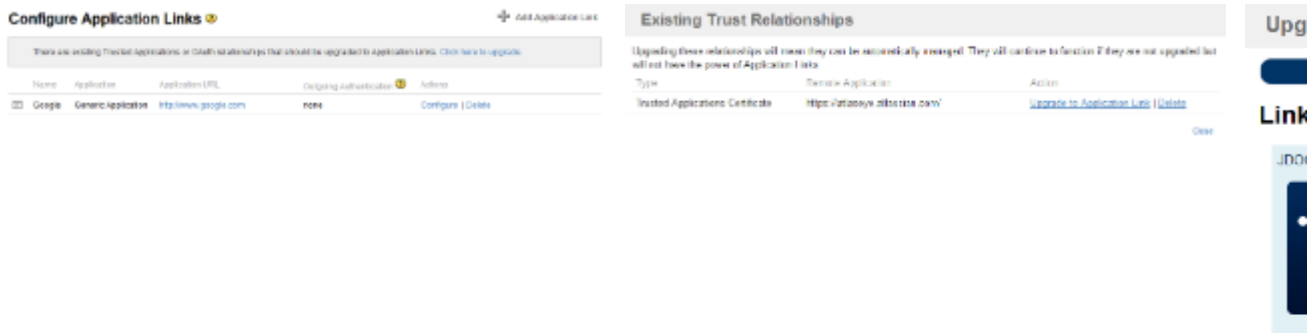
#### Upgrading an Application Link (Local App Upgraded to Include Application Links)

When you upgrade from a Crucible version that does not include Application Links to a version that does, you will have the option of converting any Trusted Applications or OAuth links to Application Links. The advantage of converting your links to Application Links is that link configuration will be simplified in future.

#### To upgrade an application link when Crucible has been upgraded to include Application Links:

1. After your Crucible upgrade, go to the administration console.
2. Click '**Application Links**'. The 'Configure Application Links' screen will show the following message: *"There are existing Trusted Applications or OAuth relationships that should be upgraded to Application Links. **Click here to upgrade.**"*
3. Click the '**Click here to upgrade**' link. The 'Existing Trust Relationships' screen will appear, showing all Trusted Applications and OAuth relationships that can be upgraded to Application Links.
4. Click the '**Upgrade to Application Link**' link next to the desired trust relationship. The 'Upgrade to Application Link' wizard will appear.
5. Complete the wizard. The process will be similar to adding a new link (described on [Adding an application link](#)), except that most fields should be pre-filled.





Step 1

Step 2

Screenshots above: *Upgrading an application link for your local application*

#### Upgrading an Application Link (Remote App Upgraded to Include Application Links)

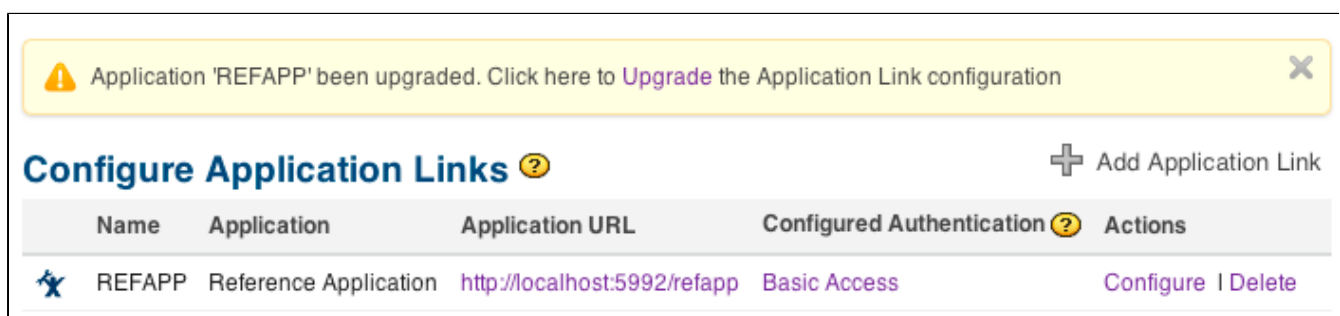
When an application link is created between a version of Crucible that supports Application Links, and a remote application that does not (either a non-Atlassian product, or an older version of an Atlassian product that did not ship with Application Links), this link is configured to run in 'legacy mode'. While there is no distinguishable difference to a user, connection and configuration without Application Links is a little different. For example:

- Setting up OAuth requires manual configuration by the administrator. If your applications support Application Links, exchange of the consumer keys and public keys is done automatically.
- The Trusted Applications protocol (Atlassian-specific) will not be available for authentication.

If you upgrade your remote application to a version that does support Application Links, the application link will continue to work. Upgrading your link may simplify link configuration and make additional authentication protocols available (as mentioned above).

#### To upgrade an application link when your remote application has been upgraded to include Application Links:

1. After you have upgraded your remote application to a version that includes Application Links, go to the administration console of your local application. A warning will be displayed, requesting that you upgrade the link to full Application Links mode.
2. Click '**Upgrade**' in the warning message to start the upgrade wizard. Note the following:
  - You will be prompted to make your application link a reciprocal link. You will need to provide administrator credentials for your remote application, if you choose to do so.
  - If you make your application link a reciprocal link, you will also be able to make reciprocal links for your project links. For example, you may be able to link your JIRA project to a FishEye repository and also make a link from your FishEye repository back to the JIRA project.



Screenshot above: *Upgrading an application link for remote application*

Step 1 **Step 2** Step 3

## Link to Reference Application ?

RefApp - erik

REFAPP

☒ Create a link back to this server. Provide administrator credentials for 'REFAPP'. These are used once to authenticate you and will not be saved. [Read More.](#)

Username

Password

☒ For each existing Charlie link, create an incoming link from the remote application.

Accessible URL of this application for the reciprocal link

Previous Next Cancel

Screenshot above: Upgrading an application link wizard

Related Topics

[Adding an application link](#)

[Configuring Authentication for an Application Link](#)

[Configuring Project Links across Applications](#)

We no longer recommend the use of project links with Crucible 2.9 and later. This is because application links now provide all of the functionality previously available with project links.

However, project links are retained for the following reasons:

- Setting up project links provides a way to restrict the scope of JIRA searches, which can provide performance benefits.
- Legacy configurations can continue to use project links without any need for changes.
- Third-party plugins may continue to rely on project links for their functionality.

**On this page:**

- [Adding a Project Link](#)
- [Deleting a project link](#)
- [Making a project link the primary link](#)

**Related pages:**

- [Adding an application link](#)

**Adding a Project Link****To link a Crucible project to a project in another application:**

1. Go to the Crucible administration console and click **Projects**.
2. Click **Application Links** in the 'Operations' column next to the project that you want to link from.
3. The instructions for adding a project link will vary depending on whether the target application has the Application Links functionality installed:
  - If the target application has Application Links:
    - a. Click **Add Link**. Then, in the dropdown menu, click the application that contains the project you want to link to. For example, if you want to link to a specific JIRA project, click the JIRA site that contains that project. If you want to link to a Confluence space, click the Confluence site that contains that space.
    - b. Click one of the options on the 'Authorization required' screen:
      - **Authorize** — Select to grant your project authorised access to the target project. The target application will open in a new window, so that you can log in and authorise access.
      - **Skip – your access is anonymous** — Select if you only want to allow anonymous access to the target project.
    - c. In the **Name or Key** field, enter the name/key of the project in the remote application that you want to link to. For example, if you want to link to a JIRA project, enter the project key. If you want to link to a Confluence space, enter the space key.
    - d. Click the **Create** button to create the project link.
  - If the target application does not have Application Links:
    - a. Click **Add Link**. Then, in the dropdown menu, click the application that contains the project you want to link to. For example, if you want to link to a specific JIRA project, click the JIRA site that contains that project. If you want to link to a Confluence space, click the Confluence site that contains that space.
    - b. In the **Key** field, enter the name/key of the project in the remote application that you want to link to. For example, if you want to link to a JIRA project, enter the project key. If you want to link to a Confluence space, enter the space key.
    - c. (optional) Enter the alias for the project in the **Alias** field. This is the display name for the project in your administration console.
    - d. Click the **Create** button to create the project link.

**Deleting a project link**

If you have set up multiple project links to the same application, for example you have linked a Crucible project to multiple JIRA projects, deleting the **primary link** will mean that another of the links will be made the primary link.

**To delete a project link:**

1. Go to the Crucible administration console and click **Projects**.
2. Click **Application Links** in the 'Operations' column next to the project that you want to link from.
3. Click **Delete** next to the link that you want to delete.
4. Click **Confirm**.


**Making a project link the primary link**

If you have set up project links to more than one project in the same application, then one of the project links will be marked as the primary link. All outgoing requests will be directed to the primary link.

For example, if you have a Crucible project that is linked to two JIRA projects, you can nominate the link to one of the JIRA projects as the primary link. Every time Crucible requests JIRA information, it will request it from the primary link's JIRA project. Both JIRA projects can still request information from the Crucible project.

**To make a project link the primary link:**

1. Go to the Crucible administration console and click **Projects**.

2. Click **Application Links** in the 'Operations' column next to the project that you want to link from.
3. Click **Make Primary** in the 'Action' column for the project link that you want to make the primary link. A  symbol will be displayed in the 'Primary' column next to the link.  
*Note:* The 'Primary' column and 'Make Primary' link will appear only if you have set up multiple project links to the same application, for example if you have linked a Confluence space to a number of JIRA projects.

## Trusted Applications

A **'trusted application'** is an application that Crucible will allow to access specific functions in Crucible on behalf of any user, without the user logging in to Crucible. You can configure Trusted Applications authentication between FishEye, Crucible, JIRA (3.12 and later) and Confluence (2.7 and later).

Using the bundled Application Links plugin, you can configure application links with Trusted Applications authentication as well as other types of authentication.

For further instructions, please see [Configuring Application Links](#).

Related Topics

[Configuring Application Links](#)

[Linking Crucible to JIRA](#)


## Managing add-ons

An add-on is an installable component that supplements or enhances the functionality of Crucible in some way. For example, the [Automatic Review Creator](#) automatically creates a Crucible review each time a commit is made to a FishEye repository. Other add-ons are available for reviewing changes in Git or Subversion source code repositories, and for using Crucible features directly from the IntelliJ IDEA interface.

Crucible comes with many pre-installed add-ons (called system add-ons). You can install more add-ons, either by acquiring the add-on from the [Atlassian Marketplace](#) or by uploading it from your file system. This means that you can install add-ons that you have developed yourself. For information about developing your own add-ons for Crucible, see the [Crucible Developer documentation](#).

### On this page:

- [About the Universal Plugin Manager \(UPM\)](#)
- [Administering Add-ons in Crucible](#)

 You may notice that the terms 'add-on' and 'plugin' both appear in the Atlassian documentation and tools. While the terms are often used interchangeably, there is a difference. A plugin is a type of add-on that can be installed into an Atlassian host application. Plugins are what developers create with the Atlassian SDK. But there are other types of add-ons as well. For example, the JIRA client is an add-on that runs as a separate program rather than as a plugin to JIRA. This documentation uses the term 'add-on' most often.

## About the Universal Plugin Manager (UPM)

You administer add-ons for Crucible using the Universal Plugin Manager (UPM). The UPM is itself an add-on that exposes add-on administration pages in the Crucible Administration Console. UPM works across Atlassian applications, providing a consistent interface for administering add-ons in Crucible, Confluence, Fisheye, JIRA, Stash and Bamboo.

UPM comes pre-installed in recent versions of all Atlassian applications, so you do not normally need to install it yourself. However, like other add-ons, the UPM software is subject to regular software updates. Before administering add-ons in Crucible, therefore, you should [verify your version](#) of the UPM and update it if needed.

## Administering Add-ons in Crucible

You can update the UPM, or any add-on, from the UPM's own add-on administration pages. Additionally, you can perform these tasks from the UPM administration pages:

- Install or remove add-ons
- Configure add-on settings
- Discover and install new add-ons from the [Atlassian Marketplace](#)
- Enable or disable add-ons and their component modules

To manage add-ons, go to the Crucible admin area, and click **Manage Add-ons**, under 'System Settings'.

For information on performing these add-on administration tasks, see the [Universal Plugin Manager documentation](#).

## Crucible releases

### Crucible 3.4

**15 April 2014**

- Importing Git repositories from Atlassian Stash
- Administration REST APIs – `/repositories/`
- Header stalking behaviour

Read more in the [Crucible 3.4 release notes and changelog](#).

See the [Crucible upgrade guide](#).

### Crucible 3.3

**11 February 2014**

- Improved review subheader
- Administration REST APIs
- Subversion 1.8 is now supported
- Microsoft Internet Explorer 11 is now supported

Read more in the [Crucible 3.3 release notes and changelog](#).

See the [Crucible upgrade guide](#).

### Crucible 3.2

**27 November 2013**

- Quick Search filters
- User data moved to the SQL database
- Improved protection against XSRF
- Internally managed Git repositories no longer supported by FishEye 3.2
- Microsoft SQL Server 2012 is now supported ([support for SQL Server 2005 is deprecated](#))
- Microsoft Internet Explorer 10 is now supported ([support for IE 8 is deprecated](#))
- MySQL 5.0 [is deprecated](#)
- PostgreSQL 8.2 [is deprecated](#)
- FishEye communication with JIRA versions older than 5.0 is [no longer supported](#)
- More in the [release notes and changelog](#)

See the [Crucible upgrade guide](#).

### Crucible 3.1

**27 August 2013**

- Dashboard improvements
- QuickNav and QuickSearch improvements
- New JIRA issue dialog
- Transition JIRA issues from within Crucible
- Small improvements: native SVN 1.7, OpenJDK
- More in the [release notes and changelog](#)

See the [Crucible upgrade guide](#).

## Crucible 3.0

**30 May 2013**

- Redesigned user experience
- Review CLI tool
- Iterative pre-commit reviews
- Platform upgrades: Jetty 8, Infinity 3 DB
- Optimised indexing for new SVN repositories
- Small improvements
- More in the [release notes and changelog](#)

See the [Crucible upgrade guide](#).

## Crucible 2.10

**15 January 2013**

- Inline issue creation
- Repository management REST API
- Repository review creation limit
- More in the [release notes](#)
- [Crucible 2.10 upgrade guide](#)

## Crucible 2.9

**14 November 2012**

- Simpler JIRA integration
- Better performance of the Reviews tab in JIRA
- Faster review creation for large teams
- More in the [release notes](#)
- [Crucible 2.9 upgrade guide](#)

## Crucible 2.8

**15 August 2012**

- Mentions
- Shares
- Improved performance for the projects listing
- Support for Subversion 1.7
- End of life announcements
- More in the [release notes](#)
- [Crucible 2.8 Upgrade Guide](#)

## Crucible 2.7

**7 September 2011**

- JIRA Transitions in Crucible
- Review Reminders
- Small Improvements
- More in the [release notes](#)
- [Crucible 2.7 Upgrade Guide](#)

## Crucible 2.6

**6 June 2011**

- New Quick Search
- HTML Emails for Reviews
- Dashboard and Navigation Improvements
- SQL Server Support

- Oracle Support
- Review Creation without Metadata Changes
- Improved Patch Anchoring
- More in the [release notes](#)
- [Crucible 2.6 Upgrade Guide](#)

## Crucible 2.5

**8 February 2011**

- Oracle (Beta)
- Redesigned Activity Stream
- Improved Header
- Comment Notification Batching
- More in the [release notes](#)
- [Crucible 2.5 Upgrade Guide](#)

▼ [Crucible older release notes \(click to expand\)](#)

## Crucible 2.4

**20 October 2010**

- Easier Application Linking
- Native Repository Access
- Starter Licenses
- Adding Changesets to Reviews Simplified
- User Interface Improvements
- Snippets Tweaks
- More in the [release notes](#)
- [Crucible 2.4 Upgrade Guide](#)

## Crucible 2.3

**26 May 2010**

- Snippet Reviews
- Changeset Discussions
- Mercurial SCM Alpha
- Review Coverage report
- Revamped Installation Process
- Gadgets
- More in the [release notes](#)
- [Crucible 2.3 Upgrade Guide](#)

## Crucible 2.2

**18 February 2010**

- Smart Pre-Commit (Patch) Support
- 'No Moderator' Reviews
- Wizard-Like Review Creation
- Integrated Timetracking Between Crucible and JIRA
- Edit Mode for Reviews
- More in the [release notes](#)
- [Crucible 2.2 Upgrade Guide](#)

## Crucible 2.1

**12 November 2009**

- Wiki Markup Rendering
- Progress Tracking

- Usability and Productivity Updates
- Streamlined JIRA Integration
- Review Time Tracking
- Review History Dialog
- "Blockers" Reports
- Threaded Comments
- Plugin Developer Tools
- More in the [release notes](#)
- [Crucible 2.1 Upgrade Guide](#)

## Crucible 2.0

**30 June 2009**

- Support for iterative reviews
- New User Interface
- Indicators for read/unread comments
- Enhanced JIRA integration
- More in the [release notes](#)
- [Crucible 2.0 Upgrade Guide](#)

## Crucible 1.6

**23 September 2008**

- Support for non-FishEye repositories
- Confluence page reviews
- Shared file system repositories
- Enhanced pre-commit reviews & image support
- Multiple admin users
- Expanded API
- More in the [release notes](#)
- [Crucible 1.6 Upgrade Guide](#)

## Crucible 1.5

**14 April 2008**

- Project Dashboard
- Filtered comments & defects search, with statistical summary
- Customisable email templates
- Improvements to Crucible Plugin API beta
- More in the [release notes](#)
- [Crucible 1.5 Upgrade Guide](#)

## Crucible 1.2

**5 Dec 2007**

- Reviews grouped into projects
- Customisable permission schemes
- Plugin API
- Enhancements to user management
- JIRA integration
- Crucible 1.2 includes FishEye 1.4
- More in the [release notes](#)
- [Crucible 1.2 Upgrade Guide](#)

## Crucible 1.1

**18 September 2007**

- Pre-commit review (patch review)



- Review participants can keep track of their progress through a review by marking each file as "done"
- Side-by-side diff mode within the Review display
- Syntax highlighting when displaying a diff
- More in the [release notes](#)
- [Crucible 1.1 Upgrade Guide](#)

#### Crucible 1.0.x Changelog

#### ▼ [Security advisories \(click to expand\)](#)

##### Security advisories

- [FishEye and Crucible Security Advisory 2013-07-16](#)
- [FishEye and Crucible Security Advisory 2012-08-21](#)
- [FishEye and Crucible Security Advisory 2012-05-17](#)
- [FishEye and Crucible Security Advisory 2012-01-31](#)
- [FishEye and Crucible Security Advisory 2011-11-22](#)
- [FishEye and Crucible Security Advisory 2011-05-16](#)
- [FishEye and Crucible Security Advisory 2011-01-12](#)
- [Crucible Security Advisory 2010-06-16](#)
- [Crucible Security Advisory 2010-05-04](#)
- [FishEye and Crucible Security Advisory 2014-02-26](#)

## Crucible upgrade guide

This page describes how to upgrade to a new version of Crucible.

- For the latest Crucible release, see [Crucible releases](#).
- Read about how your [Crucible installation works with FishEye](#).
- For production environments we recommend that you test the Crucible upgrade on a QA server before deploying to production.

#### On this page:

- [Upgrade steps](#)
- [Upgrading to Crucible 3.4](#)
- [Upgrading to Crucible 3.3](#)
- [Upgrading to Crucible 3.2](#)
- [Upgrading to Crucible 3.1](#)
- [Upgrading to Crucible 3.0](#)
- [Checking for known issues and troubleshooting the Crucible upgrade](#)

### Upgrade steps

This section provides general instructions for upgrading Crucible. See also the specific notes on this page for the version of Crucible you are upgrading to. We *strongly recommend* that you upgrade Crucible by following these steps:

- Back up your **entire** Crucible instance (see [Backing up and restoring Crucible data](#)):
  - If you are backing up your Crucible instance via the Admin interface, tick all of the **Include** checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
  - If you are backing up your Crucible instance using the command-line interface, do not use any [exclusion options](#).
- Read the [Release Notes and Changelog](#) and version-specific Upgrade Guides for the version you are upgrading to, as well as for any versions you are skipping.
- Read the [Supported platforms](#) page for the full list of supported platforms for Crucible.
- [Download](#) the Crucible zip file.
- Once the new version of Crucible is installed, remember to update any custom configurations in the new version of Crucible, for example your SQL driver and your wrapper.config file.

Your upgrade procedure depends on whether you are using a `FISHEYE_INST` directory (i.e. "FishEye instance" directory).

- The `FISHEYE_INST` directory is the FishEye data directory (*not* the installation directory) and has a location defined by the `FISHEYE_INST` environment variable. It is used to keep the FishEye data

completely separate from the FishEye/Crucible application files. We recommend that you configure FishEye/Crucible to use a `FISHEYE_INST` directory for production instances. Read more about `FISHEYE_INST` in [Installing FishEye on Windows](#) or [Installing FishEye on Linux and Mac](#).

- The `<FishEye home directory>` is the location of the FishEye/Crucible application files.

NOTE: For all methods below, if you previously ran FishEye as a Windows service and are installing the new version of FishEye in a new location, you need to reinstall FishEye as a Windows service. Make sure to run `...\wrapper\bin\Fisheye-Uninstall-NTService.bat` from the old location. Subsequently, prior to starting the new instance of FishEye, follow these instructions to set up [FishEye as a Windows service](#) again. Make sure to copy over the changes from the old `...\wrapper\conf\wrapper.conf` file to the new `wrapper.conf` file.

#### Method 1: Using a `FISHEYE_INST` directory

▼ [Click here to expand...](#)

If you have FishEye/Crucible configured to use a `FISHEYE_INST` directory, then follow the instructions below. This is the recommended scenario for production installations.

1. Shut down your existing FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
2. Make a backup of your `FISHEYE_INST` directory.
3. Download [FishEye](#) or [Crucible](#).
4. Extract the new FishEye/Crucible version to a new directory.
5. Leave your `FISHEYE_INST` environment variable set to its existing location. Both FishEye and Crucible use this variable.
  - Please be aware that jar files in the `FISHEYE_INST/lib` directory may conflict with those required for FishEye's normal operation. Jar files in this directory should be limited to those which provide functionality not provided by FishEye (e.g. database drivers).
6. Start FishEye/Crucible from the new installation directory by running `bin/run.sh`. (Use `run.bat` on Windows.)
7. Follow any version-specific instructions found in the [FishEye upgrade guide](#) or [Crucible upgrade guide](#).

#### Method 2: Without a `FISHEYE_INST` directory

▼ [Click here to expand...](#)

If you do not have FishEye/Crucible configured to use a `FISHEYE_INST` directory and do not want to set one up, then follow the instructions below. The `<FishEye home directory>` is the location of the existing FishEye/Crucible installation. Note that this is the typical scenario for evaluation installations, and is not recommended for production installations.

*You will need to copy some files from your old FishEye/Crucible installation to your new one.*

1. Download [FishEye](#) or [Crucible](#).
2. Extract the new FishEye/Crucible archive into a directory such as `<New FishEye home directory>`.
3. Shut down the old FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
4. Copy `<FishEye home directory>/config.xml` to `<New FishEye home directory>`.
5. Delete the following directories from the `<New FishEye home directory>/var` directory:
  - `<New FishEye home directory>/var/cache`
  - `<New FishEye home directory>/var/data`
  - `<New FishEye home directory>/var/log`
6. Copy (or move) the following directories from `<FishEye home directory>/var` to `<New FishEye home directory>/var`:
  - `<FishEye home directory>/var/cache`
  - `<FishEye home directory>/var/data`
  - `<FishEye home directory>/var/log`

DO NOT include the following directories when you do that:

  - `<FishEye home directory>/var/osgi-cache`
  - `<FishEye home directory>/var/plugins`
  - `<FishEye home directory>/var/tmp`
7. Delete the `<New FishEye home directory>/cache` directory.
8. Copy (or move) the `<FishEye home directory>/cache` directory to `<New FishEye home directory>`.

```
directory>/cache.
```

9. Start FishEye/Crucible from the new installation by running `<New FishEye home directory>/bin/run.sh`. (Use `run.bat` on Windows.)
10. Follow any version-specific instructions found in the [FishEye upgrade guide](#) or [Crucible upgrade guide](#).

#### Method 3: Without a FISHEYE\_INST directory, but would like to set one up

▼ [Click here to expand...](#)

If you do not have FishEye/Crucible configured to use a FISHEYE\_INST directory but would like to set one up, then follow the instructions below. You may wish to do this when reconfiguring an existing installation for a production environment.

The FISHEYE\_INST directory is the FishEye data directory, which has a location defined by the FISHEYE\_INST environment variable, and which should be completely separate from the `<FishEye home directory>`. The `<FishEye home directory>` is the location of the existing FishEye/Crucible installation.

1. Download [FishEye](#) or [Crucible](#).
2. Shut down the existing FishEye/Crucible server, using `bin\stop.bat` or `bin\stop.sh` from the `<FishEye home directory>`.
3. Set up the FISHEYE\_INST [environment variable](#), then create the FISHEYE\_INST directory on your file system.
4. Copy `<FishEye home directory>/config.xml` to the FISHEYE\_INST directory.
5. Copy the `<FishEye home directory>/var` directory to the FISHEYE\_INST directory.
6. Copy the `<FishEye home directory>/cache` directory to the FISHEYE\_INST directory.
7. If it exists, copy the `<FishEye home directory>/data` directory to the FISHEYE\_INST directory.
8. Extract the new FishEye/Crucible archive into a directory such as `<New FishEye home directory>`.
9. Start FishEye/Crucible from the new installation by running `<New FishEye home directory>/bin/run.sh`. (Use `run.bat` on Windows.)
  - If your configuration is not automatically picked up and you cannot see your existing repositories, check your **Administration > Sys-Info** page, where you will see information about the `<FishEye home directory>` and FISHEYE\_INST. Check that your FISHEYE\_INST is pointing to the right directory.
10. Follow any version-specific instructions found in the [FishEye upgrade guide](#) or [Crucible upgrade guide](#).

## Upgrading to Crucible 3.4

Please also see the [Upgrade steps](#) section above.

Please read the [End of Support Announcements for Crucible](#) and the Crucible [Supported platforms](#) page.

#### Known issues for Crucible 3.4

| T   | Key       | Summary   | Status               |
|---|-----------|---|----------------------|
|  | CRUC-6767 | ReviewService methods using RepositorySources may fail if there's no Disposer defined | <a href="#">OPEN</a> |



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1 issue

## Upgrading to Crucible 3.3

Please also see the [Upgrade steps](#) section above.

As previously announced, the following platforms are no longer supported by Crucible 3.3:

- Internet Explorer 8
- MySQL 5.0
- PostgreSQL 8.2

- SQL Server 2005








Please read the [End of Support Announcements for Crucible](#).


#### Supported platform upgrades

- SVN 1.8 is supported by Crucible 3.3.
- Microsoft Internet Explorer 11 is supported by Crucible 3.3.

See the Crucible [Supported platforms](#).

#### Known issues for Crucible 3.3

| T   | Key       | Summary  | Status               |
|---|-----------|--|----------------------|
|  | CRUC-6767 | ReviewService methods using RepositorySources may fail if there's no Disposer defined                | <a href="#">OPEN</a> |
|  | CRUC-6745 | Can't configure Mail Server with gmail account configured for 2-step authentication                  | <a href="#">OPEN</a> |
|  | CRUC-6741 | Smart commit is not parsed if there is "#" before that.  | <a href="#">OPEN</a> |
|  | CRUC-6730 | REST API doesn't allow to create a review if the patch can't be anchored                             | <a href="#">OPEN</a> |
|  | CRUC-6720 | Creating a review of a binary revision before SVN processing is complete renders binary file as text | <a href="#">OPEN</a> |
|  | CRUC-6703 | Author field does nothing when trying to filter a SCMSource repo                                     | <a href="#">OPEN</a> |
|  | CRUC-6702 | Impossible to selecting a repo with a name greater than 80 chars when adding to review               | <a href="#">OPEN</a> |


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7 issues

#### Upgrading to Crucible 3.2

Please also see the [Upgrade steps](#) section above, and read the [End of Support Announcements for Crucible](#) page.

Please note the following changes in Crucible 3.2:

##### REST endpoint change

For Crucible 3.2, the `RestReviewService.remindIncompleteReviewers()` (`/rest-service/reviews-v1/{reviewId}/remind`) end point was changed from accepting `'application/x-www-form-urlencoded'` content type with `'message'` and `'recipient'` params to `'application/json'` content type with `'message'` and `'recipients'` JSON fields. See <https://docs.atlassian.com/fisheye-crucible/latest/wadl/crucible.html#d2e1881>.

##### User data is moved from data0.bin to the SQL database

An upgrade task is run on startup that moves user data to the SQL database. We are doing this to mitigate the risk of data corruption or loss.

##### XSRF protection

FishEye/Crucible 3.2.0 includes protection against XSRF attacks.

If you have implemented a LightSCM plugin, and have used the `SimpleConfigurationServlet` base class provided in the `scmutils` library, you will need to modify your administration page so that it performs `'delete'` operations using an HTTP POST, not a GET.

You can have FishEye convert your anchor tags to form POSTs at runtime by giving them the class `"anchor-post"`. For example, the anchor:

```
<a class="anchor-post" href="#"
data-href="/fsscm?name=TEST&delete=true">Delete</a>
```

will be converted into a form which POSTs to `/fsscm` with form parameters `name=TEST` and `delete=true`.

### ***Internally managed Git repositories no longer supported***

As [previously announced](#), internally managed Git repositories are no longer supported by FishEye 3.2.




Please read the [migration guide](#) for information about options and procedures for migrating your internally managed Git repositories – note that we recommend that you upgrade to FishEye 3.2 before migrating any internally managed repositories.

### ***Supported platform upgrades***

- Communication with JIRA versions older than 5.0 is [no longer supported](#).
- Microsoft SQL Server 2012 is now supported ([support for SQL Server 2005 is deprecated](#)).
- Microsoft Internet Explorer 10 is now supported ([support for IE 8 is deprecated](#)).
- MySQL 5.0 [is deprecated](#).
- PostgreSQL 8.2 [is deprecated](#).
- The Atlassian AUI plugin has been upgraded to AUI 5.2.
- jQuery has been upgraded to 1.8.3.
- backbonejs has been upgraded to 1.0.

See the Crucible [Supported platforms](#).

### **Known issues for Crucible 3.2**

| T   | Key       | Summary   | Status               |
|---|-----------|---|----------------------|
|  | CRUC-6767 | ReviewService methods using RepositorySources may fail if there's no Disposer defined | <a href="#">OPEN</a> |
|  | CRUC-6158 | Review performance in IE 8&9 is pathetic  | <a href="#">OPEN</a> |
|  | CRUC-6485 | Indicate that the listing of reviewers is truncated in the Edit Details view          | <a href="#">OPEN</a> |



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3 issues

## **Upgrading to Crucible 3.1**

Please also see the [Upgrade steps](#) section above, and read the [End of Support Announcements for Crucible page](#).

Please note the following changes in Crucible 3.1:

### **Crucible 3.1 Merge some per-repository Lucene indices into a global cross-repository Lucene index**

Crucible 3.1 has greatly improved performance and scalability for QuickSearch and QuickNav. To achieve this, the per-repository 'METADATA' Lucene indices will be moved into a single global cross-repository Lucene index. This means Crucible is able to search across more repositories in less time because now only a single search index needs to be queried instead of the previous N. Merging these indices into the single cross-repository index can be refreshed in two ways:

1. **Recommended:** As an upgrade task that is run automatically when Crucible 3.1 is run for the first time.
2. As an offline process on a separate staging server.

During the automatic upgrade task, Crucible is fully usable and functional, although search results for files, commits and committers may be incomplete.

In our testing we have found that the automatic upgrade task took 4 hours to complete on a Crucible instance with 144 repositories of different kinds, with 58 GB of data in the FISHEYE\_INST folder (excluding logs). We are

confident that the automatic upgrade task is suitable for the majority of production Crucible installations. *It is worth repeating that the instance was fully functional (reviews, JIRA Integration, Activity Streams, Charts etc) apart from Quick Nav and Quick Search during this time.*

Nevertheless, where required, we provide [instructions for performing the reindex as an offline process](#) on a separate staging server.





#### Plugin Settings will be moved from the config.xml to the SQL database

As of Crucible 3.1.0, plugin settings which were previously stored in the <properties> element inside config.xml will be stored in the SQL database. This includes settings for any bundled plugins such as ApplicationLinks, the UniversalPluginManager etc, and any 3rd party plugins.

An upgrade task is run on startup which will first insert all the properties found in config.xml into a new table in the SQL database. Once successful, the properties are removed from config.xml.

As part of this change, the RepositoryOptions.setProperties (Map<String, String>properties) and RepositoryOptions.getProperties() methods have been removed from our API. If you are using a plugin which uses either of these methods, you will need to update the plugin to a version which uses the Spring component PluginSettingsFactory. Plugins can use this to access the migrated global and per-repository properties that were previously available via the old RepositoryOptions API.

#### Known issues for Crucible 3.1

| T   | Key       | Summary   | Status               |
|---|-----------|---|----------------------|
|    | CRUC-6767 | ReviewService methods using RepositorySources may fail if there's no Disposer defined   | <a href="#">OPEN</a> |
|    | CRUC-6597 | Cyrillic is not working in comments   | <a href="#">OPEN</a> |
|   | CRUC-6568 | Duplicated files on review  | <a href="#">OPEN</a> |
|  | CRUC-6596 | Resolving long content hashes from short content hashes in git patches goes over the whole contentHashDB for each hash in patch | <a href="#">OPEN</a> |



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4 issues

## Upgrading to Crucible 3.0

Please also see the [Upgrade steps](#) section above.

Please note the following changes in Crucible 3.0:

#### Jetty 8

Crucible 3.0 now uses Jetty 8 as its web server and Java servlet container. This change should be completely transparent when you upgrade to Crucible 3.0. However, if you have customised either your `jetty-web.xml` file, or the `maxFormContentSize` [system property](#), you will need to update those in the new version. See [Enabling Access Logging in FishEye](#) and this [FishEye KB page](#) for more information.

#### Infinity DB

Crucible 3.0 now uses the InfinityDB 3.0 database internally to provide improved performance for concurrent access to Crucible. This change is transparent to users in all respects.

#### Pipelined indexing

Crucible 3.0 introduces a new indexing approach that splits the repository indexing process into separate tasks that can be performed in a phased and concurrent way. Users will benefit from the way in which Crucible functionality, such as review creation, now becomes available as indexing progresses. This change is transparent to users in all other respects. See [Pipelined indexing](#).

#### Improved handling of user preferences with session cookies



Upgrading may result in some users losing their preferences.

#### SQL Server transaction isolation configuration

We recommend a configuration change for SQL Server to use snapshot mode for the transaction isolation level – see [Migrating to SQL Server](#). This change avoids occasional database deadlocks, and prevents performance warning messages in the logs and admin screens.

#### Known issues for Crucible 3.0

| T | Key       | Summary   | Status               |
|---|-----------|---|----------------------|
|   | CRUC-6767 | ReviewService methods using RepositorySources may fail if there's no Disposer defined   | <a href="#">OPEN</a> |
|   | CRUC-6567 | Perforce native SCM management get branches completely wrong  | <a href="#">OPEN</a> |
|   | CRUC-6521 | File creation is not displayed as change  | <a href="#">OPEN</a> |
|   | CRUC-6596 | Resolving long content hashes from short content hashes in git patches goes over the whole contentHashDB for each hash in patch | <a href="#">OPEN</a> |
|   | CRUC-6550 | Code Review UI real estate misallocation  | <a href="#">OPEN</a> |
|   | CRUC-6528 | User still suggested for review after disabling for him Crucible  | <a href="#">OPEN</a> |
|   | CRUC-6520 | If the P4DIFF environment variable is set, the crucible.py review tool might not be able to get the patch properly              | <a href="#">OPEN</a> |
|   | CRUC-6487 | ConstraintViolationException: could not insert: [com.cenqua.crucible.model.CommentReadStatus]                                   | <a href="#">OPEN</a> |
|   | CRUC-6470 | Inline issue creation: when not logged in to Crucible the review comment icon is not fetched                                    | <a href="#">OPEN</a> |
|   | CRUC-6447 | Providing s FishEye licence does not allow repositories to be started until FishEye itself has been stopped and started         | <a href="#">OPEN</a> |
|   | CRUC-5833 | Problem creating FRXDO from frx: Index: 395   | <a href="#">OPEN</a> |

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11 issues

### Checking for known issues and troubleshooting the Crucible upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues.** Sometimes we find out about a problem with the latest version of Crucible after we have released the software. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the [Fisheye and Crucible Known Issues](#) in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](#) and one of our support engineers will help you.

### Upgrading from FishEye to Crucible

If you have been using FishEye and now want to move to Crucible, you can do this without losing your FishEye repositories.

You simply need to add a Crucible license to your existing FishEye installation, and then follow the initial configuration steps below.

You do not need to download Crucible from Atlassian.

To add your Crucible license key, go to the admin area and click **System Info** (under 'System Settings'). Click **Edit License** (under 'License') to enter your Crucible license key. You can view your license key [here](#). The Crucible functionality will be instantly unlocked.

**i** Read about how your [Crucible installation works with FishEye](#).

#### On this page:

- [Initial Crucible configuration](#)

### Initial Crucible configuration

1. You can access FishEye/Crucible immediately by going to <http://HOSTNAME:8060/> in a browser.
2. If you do not already have user accounts configured, you will need to do this via the Administration screens or by configuring FishEye/Crucible to use external authentication.

To add users:

- Open the [FishEye Administration screens](#) at <http://HOSTNAME:8060/admin/>.
- Click **Users** under 'User Settings' in the admin area.

Read more details about the different ways of [creating users](#).

3. Crucible can email each review participant on a range of changes. Each user can then set up their own preferences. This is described in the [User Profile guide](#). First, you must [set up the SMTP Server](#).

## Crucible 3.4 release notes

15 April 2014

Today we're proud to release [Crucible 3.4](#).

If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#). Please also read the [End of Support Announcements for Crucible](#).

The Crucible 3.4 changelog is [at the bottom](#) of this page.

Try it for FREE ➞

### Importing Git repositories from Atlassian Stash

When FishEye is integrated with Atlassian [Stash](#) a FishEye administrator can now easily add Stash repositories to FishEye – with just a single click. Once added, the repository behaves just like a native repository in FishEye, so your team gets all the benefits of FishEye indexing, browsing and searching. Furthermore, the repository becomes available to Crucible (when integrated), so you can perform in-depth code reviews for changes made to the Stash repository. [Read more...](#)

## Repositories

| Native repository access (119)   Stash repositories   Plugins (4) |   |                               |
|---|---|-------------------------------|
| Add Repositories hosted in Atlassian Stash to FishEye. ⓘ          |   |                               |
| Stash server  | Stash Dev                               | Q Type to filter repositories |
| Repository  | FishEye repository                      | Actions                       |
| <a href="#">aaaaTest</a> / Test Project & other things            |   | <a href="#">Add</a>           |
| <a href="#">access-log-parser</a> / Stash                         | <a href="#">STASH-access-log-parser</a> | <a href="#">ADDED</a>         |
| <a href="#">access-log-parser</a> / Jens Schumacher               |   | <a href="#">Add</a>           |
| <a href="#">adam2</a> / Blitz                                     | <a href="#">BLTZ-adam2</a>              | <a href="#">ADDED</a>         |
| <a href="#">AMKT</a> / Test Project & other things                | <a href="#">TEST-amkt</a>               | <a href="#">ADDED</a>         |

### Administration REST APIs – part 2

In Crucible 3.3, we added `/users/` and `/groups/` resources so you could programmatically maintain users and groups, and manage group memberships.

Now, for Crucible 3.4, we've extended the Crucible REST APIs even further





with the `/repositories/` resource to allow you to automate a range of administration tasks.

Note that the 'v1' REST API resources are deprecated and will be removed in a future release.

See the [FishEye Crucible REST API](#).

## Small improvements

### Header behavior

You'll notice that the headers for changeset, source code and review listings now stalk – they stay visible when you scroll down. Just a small improvement to make life easier.








## Change log

This section will contain information about the Crucible 3.4 minor releases as they become available. These releases will be free to all customers with [active Crucible software maintenance](#).

If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#).

The issues listed below are just the highlights of all those that have been resolved for the Crucible 3.4.x releases.

### 15 April 2014 - Crucible 3.4.0

| T   | Key       | Summary  |
|---|-----------|--|
|   | CRUC-474  | Allow adding a group as moderators/reviewers of reviews  |
|  | CRUC-6744 | Add option to license user for Crucible access upon user creation  |
|  | CRUC-6743 | Project page gets date of most recent changes very inefficiently   |
|  | CRUC-6736 | Review Attachments do not have their encoding correctly determined   |
|  | CRUC-6728 | P4 diff on recent versions of Perforce does not produce the unified diff header we expect, even with the correct flags |
|  | CRUC-6566 | Reviews are not being sorted based on "Name" column  |
|  | CRUC-6469 | CommentDeletedEvent is not getting triggered.  |



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7 issues

## Crucible 3.3 release notes

11 February 2014

Today we're proud to release [Crucible 3.3](#).

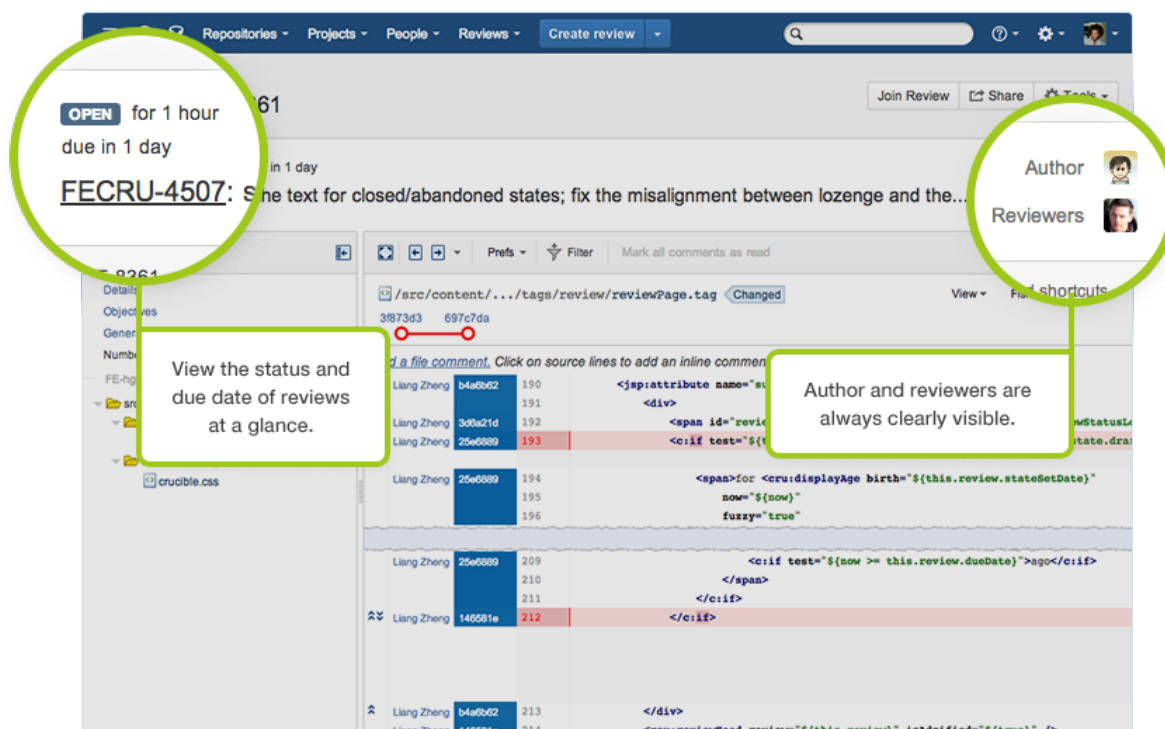
If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#). Please also read the [End of Support Announcements for Crucible](#).

The Crucible 3.3 changelog is [at the bottom](#) of this page.

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### Improved review header

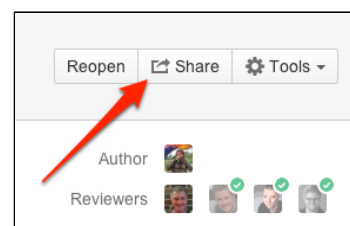
Continuing the work to enhance your experience of using Crucible, we've improved the review header. The header now has a cleaner layout, and we think you'll find it easier to see key information such as the review status, due date and who the author and reviewers are:



We'd like to call out the keyboard shortcut to toggle fullscreen mode (Shift-F), which hides the header and frees up that precious screen real estate. By the way, Shift-T toggles the left-hand file tree panel.

### Sharing replaces inviting a guest reviewer

Crucible allows you to share a review with anyone, which is quicker and more versatile than inviting a guest reviewer, so we've removed that ability from Crucible 3.3.



### Administration REST APIs

We're extending the Crucible REST APIs to allow you to automate a range of administration tasks. For Crucible 3.3, we've added `/users/` and `/groups/` resources – these allow you to programmatically retrieve, update and delete both users and groups, and to add users to, or remove them from, groups.

See [FishEye Crucible REST API](#).

### Support for Subversion 1.8

Crucible now supports Subversion 1.8, so you can use Crucible to review your Subversion 1.8 repositories. See [Native support for SVN 1.7](#).



### Support for Internet Explorer 11

Crucible now supports Microsoft Internet Explorer 11.

See [Supported platforms](#).



### Small improvements

#### Platform changes

- [Support for IE 8](#) has now ended with the release of Crucible 3.3.

- [Support for MySQL 5.0](#) has now ended with the release of Crucible 3.3.
- [Support for PostgreSQL 8.2](#) has now ended with the release of Crucible 3.3.
- [Support for SQL Server 2005](#) has now ended with the release of Crucible 3.3.

See [Supported platforms](#).

## Change log

This section will contain information about the Crucible 3.3 minor releases as they become available. These releases will be free to all customers with [active Crucible software maintenance](#).



If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#).

The issues listed below are just the highlights of all those that have been resolved for the Crucible 3.3.x releases.

### 4 April 2014 - Crucible 3.3.3

*This release contains FishEye fixes only*

#### 19 March 2014 - Crucible 3.3.2

| Key       | Summary  | T  |
|-----------|--|--|
| CRUC-6743 | Project page gets date of most recent changes very inefficiently   |   |
| CRUC-6736 | Review Attachments do not have their encoding correctly determined   |   |
| CRUC-6728 | P4 diff on recent versions of Perforce does not produce the unified diff header we expect, even with the correct flags |   |
| CRUC-6469 | CommentDeletedEvent is not getting triggered.  |  |











Authenticate to retrieve your issues

4 issues

### 21 February 2014 - Crucible 3.3.1

*This release contains FishEye fixes only*

#### 11 February 2014 - Crucible 3.3.0

| T   | Key       | Summary  |
|---|-----------|--|
|  | CRUC-6685 | Display project name in Create Review project dropdown   |
|  | CRUC-6710 | Branch and User are not longer filtered on "add changset to review" dialog   |
|  | CRUC-6687 | Filter changesets by user rather than by guessing user's default committer   |
|  | CRUC-6682 | Add Content to Review: repo names are truncated, leading to inability to distinguish repos with similar names.                                 |
|  | CRUC-6315 | Error on writing config.xml causes file corruption   |
|  | CRUC-6079 | Completing a review may give a "Could not execute JDBC batch update" error when the reviewer has deleted a comment someone else has replied to |
|  | CRUC-5798 | Linking review throws JavaScript errors  |
|  | CRUC-5347 | Author does not have visibility of a peer review when it has moved to the Moderator's To Summarize Inbox                                       |



Authenticate to retrieve your issues

8 issues

## Crucible 3.2 release notes

27 November 2013

Today we're excited to release [Crucible 3.2](#), which brings a range of usability and platform improvements.

If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#). Please also read the [End of Support Announcements for Crucible](#).

The Crucible 3.2 changelog is [at the bottom](#) of this page.

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### High design values with the ADG

We've been applying the [Atlassian Design Guidelines](#) to make using Crucible a better experience – the layout and behaviour have been improved, and if you use other Atlassian products then Crucible will feel very familiar from the moment you log in. In particular, for Crucible 3.2, the header area for a review now has a much cleaner layout:

The screenshot shows the Crucible 3.2 review interface. The top navigation bar includes 'Repositories', 'Projects', 'People', 'Reviews', and a 'Create review' button. The main header area displays the review title 'FECRU-4055: Handling of deleted files in Git manifest tracking' and a progress bar indicating 'Under Review for 3 hours (due in 1 day)'. Below the header, there is a sidebar on the left showing the file tree structure, including 'src', 'java/com/atlassian/fisheye', 'git', and 'client'. The main content area features a 'Details' table with columns for 'Participant', 'Role', 'Time Spent', 'Comments', and 'Latest Comment'. The table lists three participants: Conor MacNeill (Author, 3m), Lukasz Pater (Reviewer - 0% reviewed), and Thomas Davies (Reviewer - 0% reviewed). A 'Total' row shows 3m time spent and 0 comments. At the bottom, a 'Linked Issue' section shows 'FECRU-4055 - Handling of deleted files in Git manifest tracking'.

| Participant                    | Role                   | Time Spent | Comments | Latest Comment |
|--------------------------------|------------------------|------------|----------|----------------|
| <a href="#">Conor MacNeill</a> | Author                 | 3m         |          |                |
| <a href="#">Lukasz Pater</a>   | Reviewer - 0% reviewed |            |          |                |
| <a href="#">Thomas Davies</a>  | Reviewer - 0% reviewed |            |          |                |
| <b>Total</b>                   |                        | <b>3m</b>  | <b>0</b> |                |

Linked Issue: [FECRU-4055](#) - Handling of deleted files in Git manifest tracking

### Quick Search filters

We've added filters to QuickSearch, to make finding the content you want even quicker!

Now, in Crucible 3.2, you can also filter by the last modified date and by author.

Of course, for a while now, you've been able to filter search results by reviews and review comments, and restrict the search scope for reviews to a particular project. And when used with [Atlassian FishEye](#), you can filter for different source types such as files and directories, commit messages, diffs, file content, and committers.

test Search 78,283 results for test (1.662s)

Source: All repositories

- Files and directories (14152)
- Commit messages (203)
- Diffs (56129)
- Content (7681)
- Committers (1)

Reviews: All projects

- Reviews (23)
- Comments (94)

Last modified: Any date

- Yesterday
- Last week
- Last month
- Last year

By: Conor MacNeill

Restrict to one repo

Restrict to a project

Restrict by date

Restrict by author

Search results:

- 5e6f280 Conor MacNeill (3 hours ago) FE-4954: Add unit test for follow base moves
- ad69d97 Conor MacNeill (3 days ago) Improve fail message in test
- 5590384 Conor MacNeill (3 months ago) Move test to its corresponding plugin test dir
- ee380b6 Conor MacNeill (13 days ago) FECRU-4055: Add a test (currently failing) to catch files deleted in a merge
- e8ae626 Conor MacNeill (3 years ago) Correct sense of test
- d0df721 Conor MacNeill (8 months ago) Test passes with these changes
- 5330779 Conor MacNeill (22 months ago) Correct Unit Test
- 5330779 Conor MacNeill (22 months ago) Correct Unit Test
- 402c73b Conor MacNeill (23 months ago) Fix some test failures
- 402c73b Conor MacNeill (23 months ago) Fix some test failures

Read more about [searching in Crucible...](#)

### Internally managed Git repositories are no longer supported

As [previously announced](#), internally managed Git repositories are no longer supported by FishEye 3.2.

Please read the [migration guide](#) for information about options and procedures for migrating your internally managed Git repositories.

### Crucible communication to JIRA versions older than 5.0 is no longer supported

As [previously announced](#), communication from Crucible to JIRA versions older than 5.0 is no longer supported by Crucible 3.2. Please note that communication from JIRA to Crucible will continue to work as it currently does.

### Small improvements

#### Platform upgrades

- Microsoft SQL Server 2012 is now supported (support for SQL Server 2005 is deprecated).
- Microsoft Internet Explorer 10 is now supported (support for IE 8 is deprecated).
- MySQL 5.0 is deprecated.
- PostgreSQL 8.2 is deprecated.
- The Atlassian AUI plugin has been upgraded to AUI 5.2.
- jQuery has been upgraded to 1.8.3.
- backbonejs has been upgraded to 1.0.

See [Supported platforms](#).

#### Improved protection against XSRF attacks

We've added a security token to protect Crucible from XSRF attacks and to allow plugin developers to add protection to their plugins. See the [Crucible upgrade guide](#) for details of changes required by LightSCM

plugins.

#### **User data moved to the SQL database**

To prevent any chance of loss, the user data store has relocated. See the [Crucible Upgrade guide](#) for details.

### **Change log**

This section will contain information about the Crucible 3.2 minor releases as they become available. These releases will be free to all customers with [active Crucible software maintenance](#).

If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#).

The issues listed below are just the highlights of all those that have been resolved for the Crucible 3.2.x releases.

#### **15 January 2014 - Crucible 3.2.4**

*This release contains FishEye fixes only*

#### **16 December 2013 - Crucible 3.2.3**

*This release contains FishEye fixes only*

#### **11 December 2013 - Crucible 3.2.2**

*This release contains FishEye fixes only*

#### **6 December 2013 - Crucible 3.2.1**

*This release contains FishEye fixes only*

#### **27 November 2013 - Crucible 3.2.0**

| T   | Key       | Summary   |
|---|-----------|---|
|  | CRUC-6609 | JIRA issue transition after closing review looks bad  |
|  | CRUC-6662 | Privilege escalation  |
|  | CRUC-6624 | Document changes to the sharing features of Crucible  |
|  | CRUC-6620 | Broken tooltip in quicknav for reviews  |
|  | CRUC-6608 | Review indexing interrupted by killing application does not continue after restart                      |
|  | CRUC-6595 | Some Ajax calls never return, eventually timeout with a 502 proxy error                                 |
|  | CRUC-6588 | Make it possible to query only selected users via REST  |
|  | CRUC-6587 | REST /users-v1/username should return a limited data set for other users                                |
|  | CRUC-6586 | Should return avatar from external server if configured   |
|  | CRUC-4697 | Empty strings accepted in proxy-host / proxy-scheme   |
|  | CRUC-3008 | REST should return a 401 when using invalid basic http credentials instead of falling back to anonymous |



Authenticate to retrieve your issues

11 issues

## **Crucible 3.1 release notes**

27 August 2013

Today we're excited to release [Crucible 3.1](#), which brings you a cleaner and faster interface. We've also added some further JIRA integration points.

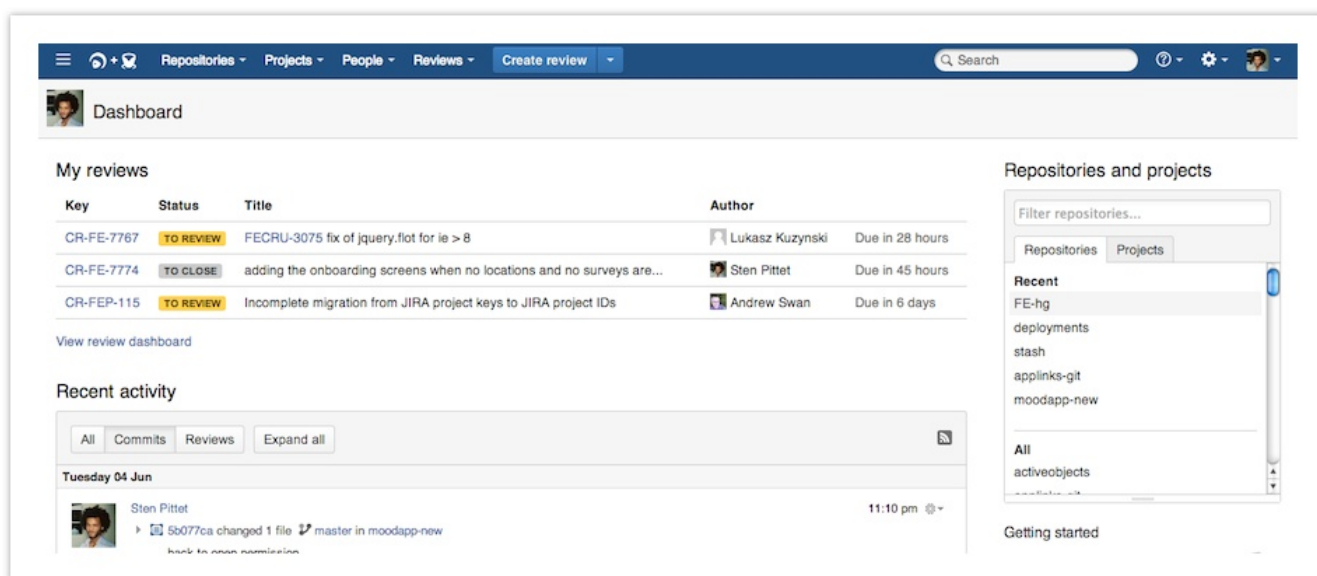
If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#). Please also read the [End of Support Announcements for Crucible](#).

The Crucible 3.1 changelog is [at the bottom](#) of this page.

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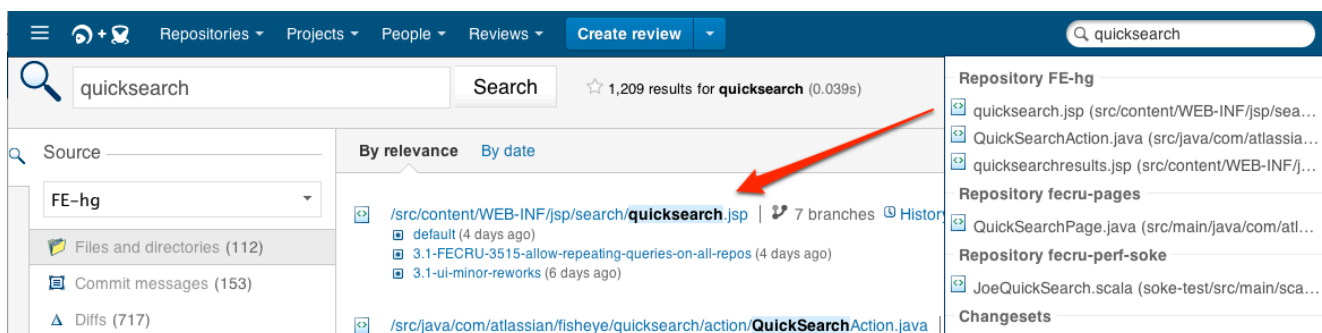
## The new Dashboard

Crucible's new dashboard makes your pending reviews the highest priority, putting them right at the top and clearly indicating their urgency. The repository and project navigator lets you jump to your recent content (try pressing Enter as soon as you launch the dashboard), and includes filters and keyboard shortcuts that facilitate navigation, especially when your organisation has hundreds of repositories.



## QuickNav and QuickSearch improvements

Previously in Crucible, QuickSearch was limited to searching 100 repositories concurrently. Now, in Crucible 3.1, you can search across files and directories, commit messages, and committers, for every one of your repositories. And it's 40% faster. And you can order search results by date. Furthermore, QuickNav now uses the same indexes as QuickSearch, so it's faster too, and it produces the same results as QuickSearch:

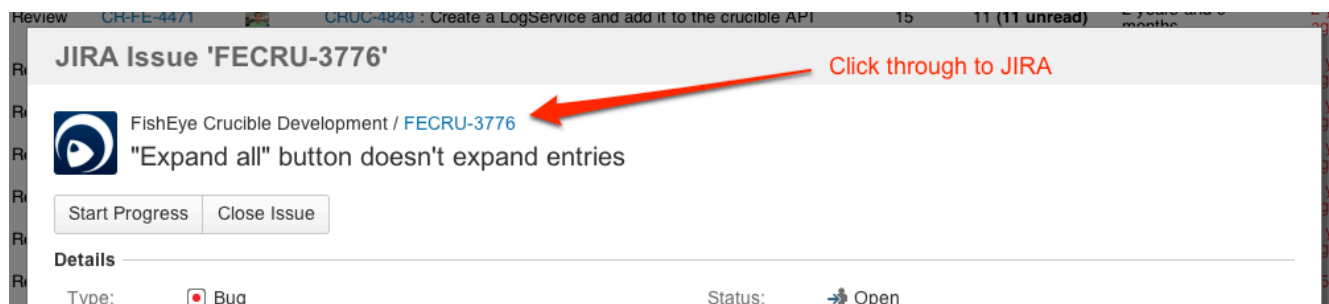


Note that upgrading to Crucible 3.1 requires an upgrade to the cross-repository index. See the [Crucible upgrade guide](#) for details.

## New JIRA issue dialog

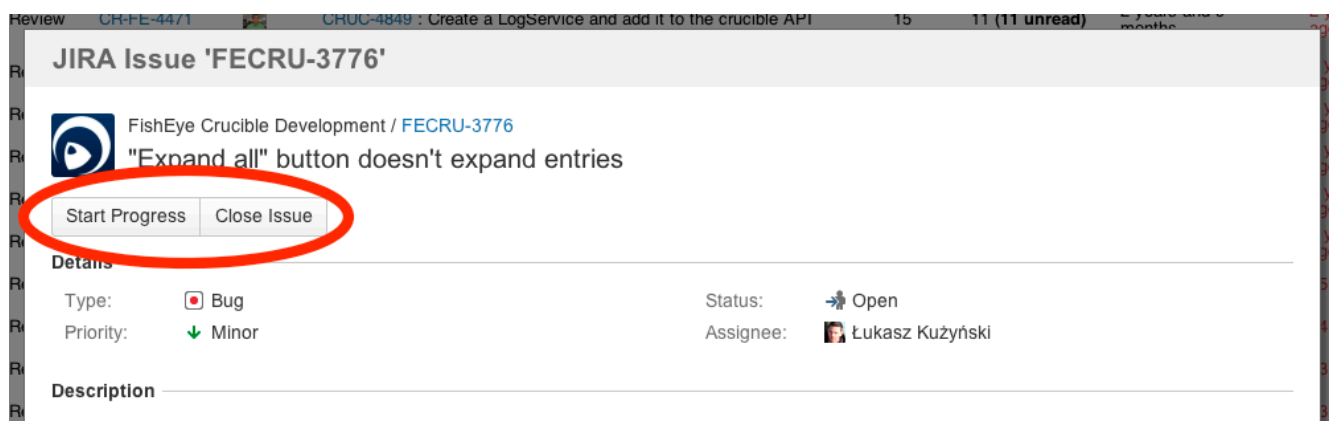
Now, when you click on any linked JIRA issue key in Crucible, you'll see a dialog that displays a summary of the issue details. From that dialog, you can [transition the workflow](#) for the issue, and easily click through to edit the issue in JIRA:





### Transition JIRA issues from within Crucible

Previously in Crucible, you could transition a JIRA issue linked to a review at the time that you closed the review. Now you can advance the workflow for any JIRA issue mentioned in Crucible at any time, right from within Crucible – just click the issue link to see the transitions available to you:

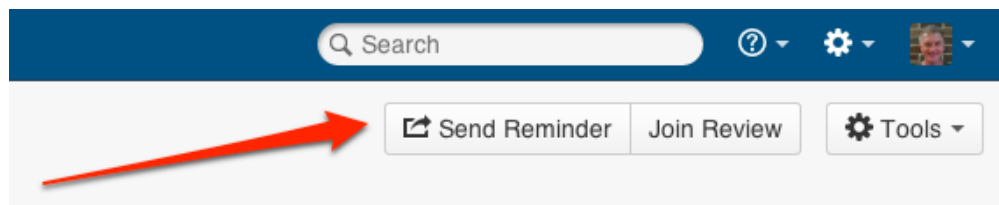


[Read more about JIRA issue transitions in Crucible ...](#)

### Small improvements

#### Simplified reminder for overdue reviewers

Alerting reviewers about an overdue review is now a simple 1-click action:



#### Improved browsing performance

The display of the file source page is now 60% faster in Crucible 3.1.

#### Native SVN 1.7 support

Crucible 3.1 now supports the native JavaHL 1.7 SVN client. It does not support the native JavaHL 1.6 SVN client. See [Native support for SVN](#) for more details.

#### OpenJDK support

Crucible 3.1 now supports OpenJDK 1.7. See [Supported platforms](#) for details.



## Change log

This section will contain information about the Crucible 3.1 minor releases as they become available. These releases will be free to all customers with [active Crucible software maintenance](#).


If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#).

The issues listed below are just the highlights of all those that have been resolved for the Crucible 3.1.x releases.

### 2 December 2013 - Crucible 3.1.6

There are no Crucible-specific fixes in this release. See the [FishEye 3.1 release notes](#) for some general issues that have been fixed.


| Key       | Summary              |
|-----------|----------------------|
| CRUC-6662 | Privilege escalation |

 [Authenticate](#) to retrieve your issues

1 issue

### 30 October 2013 - Crucible 3.1.5

| Key       | Summary                                    |
|-----------|--|
| CRUC-6644 | Error removing files from pre-commit patch |


 [Authenticate](#) to retrieve your issues

1 issue

### 8 October 2013 - Crucible 3.1.4

This release also includes some minor security fixes.


| Key       | Summary                                |
|-----------|--|
| CRUC-6620 | Broken tooltip in quicknav for reviews |


 [Authenticate](#) to retrieve your issues

1 issue

### 17 September 2013 - Crucible 3.1.3

Fixes a bug which can cause review indexing to fail when upgrading from versions prior to 3.0.

| T   | Key       | Summary   |
|---|-----------|---|
|  | CRUC-6595 | Some Ajax calls never return, eventually timeout with a 502 proxy error |


 [Authenticate](#) to retrieve your issues


1 issue

### 11 September 2013 - Crucible 3.1.2

- a few XSS security issues addressed









**29 August 2013 - Crucible 3.1.1**


| T   | Key       | Summary                                       |
|---|-----------|---|
|  | CRUC-6584 | Unable to create reviews after upgrade to 3.1 |

 Authenticate to retrieve your issues

1 issue

**27 August 2013 - Crucible 3.1.0**

| T   | Key       | Summary  |
|---|-----------|--|
|  | CRUC-6384 | Allow issue transitions for issues raised in Inline Issue Creation                                   |
|  | CRUC-6530 | Remove Crucible Transition error as a warning  |
|  | CRUC-6534 | Type when starting FishEye/Crucible  |
|  | CRUC-6525 | upgrade to 3.x release occasionally fails when deduplicating paths in db                             |
|  | CRUC-6417 | Better handling of Authentication Errors when manually linking a Review to a JIRA Issue              |
|  | CRUC-6416 | Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes |
|  | CRUC-6339 | Send notifications for replies to comments even if the user is not in the review                     |
|  | CRUC-5503 | Favouriting isn't possible on cross-repository searches  |

 Authenticate to retrieve your issues

8 issues

**Crucible 3.0 release notes**

30 May 2013

Today we're excited to release [Crucible 3.0](#), which introduces huge indexing performance gains – especially for Subversion repositories – and significant upgrades to how you perform pre-commit reviews. We think development teams will be able to work faster, every day.

If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#).

The Crucible 3.0 changelog is [at the bottom](#) of this page.

Try it for FREE ➞

**Redesigned user experience**

We've made a few key design changes to help you work faster with your reviews:

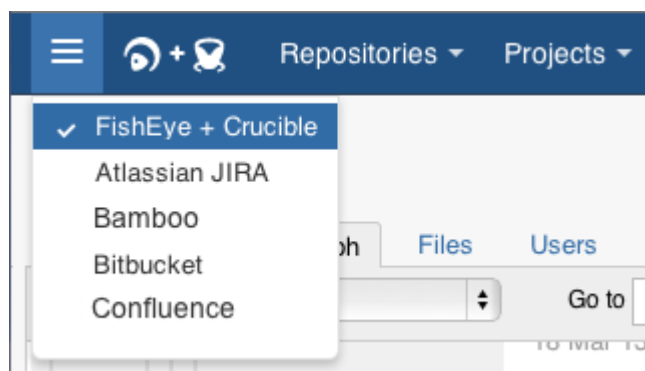
***New global header***

The new header across the top of the page makes it quicker to access recent repositories, projects, people and reviews, and has the large **Create review** button at top center, right where you can find it.

***Application navigator***

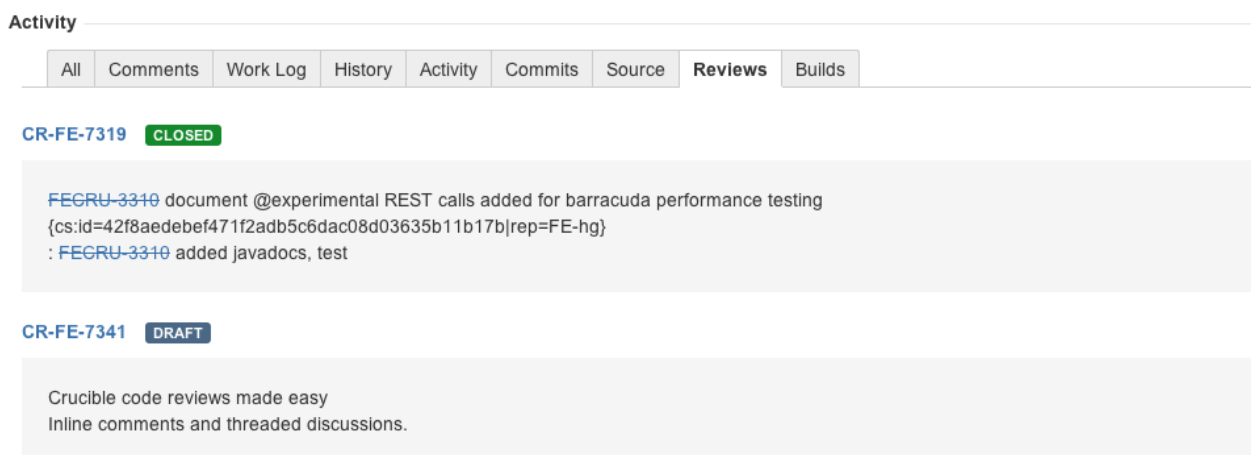
The new application navigator, at the left of the header, connects you directly to your other applications, such as

JIRA and Bamboo. Now you can switch between Crucible and JIRA – or any other Atlassian application – all from the Crucible header. No more bookmarks in your browser; we do the job for you. Admins can easily configure which apps appear in the navigator – just click **Application navigator** in the admin area.



### JIRA Reviews tab redesign

We wanted to simplify the experience but still give you the important information you need to make decisions around your issues. We think you'll like it:



### Review CLI tool

Crucible now ships with a command line tool that allows you to quickly create reviews in Crucible directly from your terminal. The tool takes the uncommitted changes in your workspace and creates a review for them in Crucible. You can use the tool to create new reviews, and to update existing pre-commit reviews with new patches. [Read more..](#)

### Iterative pre-commit reviews

Crucible now supports iterative reviews for both post-commit and pre-commit reviews. This allows you to update the review with new versions of files, and changesets (for post-commit reviews) or patches (for pre-commit reviews) that have been created after the review was started.

Iterative reviews allow your team to discuss changing code in the context of a single review. This lets the reviewers see all the related changes together, and to more easily keep track of comments and defects. [Read more...](#)

### Create reviews sooner for new SVN repositories

We've introduced a new approach that splits the indexing process into separate tasks that can be performed in a phased and concurrent way. This allows you to start using core functionality in Crucible, such as creating reviews, up to 15X sooner than in Crucible 2.10. You can get on with your work, while Crucible quietly completes the fine details of indexing in the background. [Read more...](#)

## Small improvements

### Faster browsing for large teams

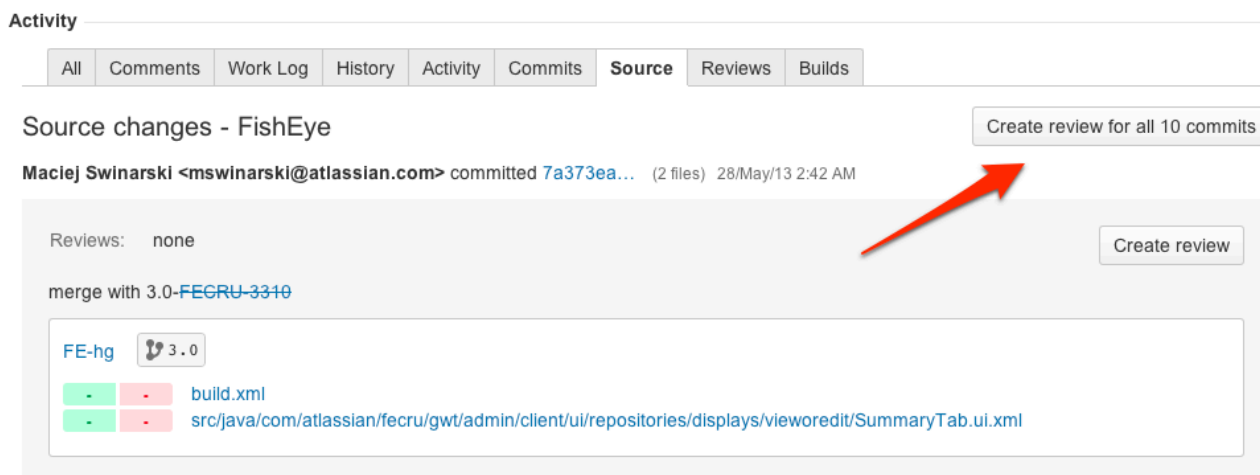
Crucible now uses the InfinityDB 3.0 internal database to provide faster concurrent access. Your team gets a better browsing experience!

### Quicker review creation

We've optimised some SQL statements in Crucible. You spend less time creating, or modifying, reviews.

### Better review creation from JIRA when Stash is integrated

We've improved the integration between JIRA and Crucible. Now you can create a review for all the commits related to a JIRA issue, even when Atlassian Stash is integrated with JIRA.



### Diff hunk shortcuts

We've changed the 'j' and 'k' keyboard shortcuts to now work with diff hunks when looking at a review, so as to be consistent with their new behaviour in FishEye.

### Improved handling of user preferences with session cookies

We've made session cookies more robust, but this may result in your existing preferences being lost at upgrade time.

### REST API change

The 'groups-v1' REST endpoint now requires the user to be an administrator – it will fail authentication and return a 403 otherwise. [Read more...](#)

## Change log

This section will contain information about the Crucible 3.0 minor releases as they become available. These releases will be free to all customers with [active Crucible software maintenance](#).


If you are upgrading from an earlier version of Crucible, please read the [Crucible upgrade guide](#).

The issues listed below are just the highlights of all those that have been resolved for the Crucible 3.0.x releases.

### 23 July 2013 - Crucible 3.0.3

| T | Key       | Summary  |
|---|-----------|--|
|   | CRUC-6556 | Error editing permission scheme action containing deleted user                 |
|   | CRUC-6552 | Searching over REST for a JIRA Project key doesnt look at Review Linked Issues |


 CRUC-6537 Deleting and recreating projects with keys which differ only in case can cause NonUniqueResultException on Viewing Review

 Authenticate to retrieve your issues

3 issues


## 2 July 2013 - Crucible 3.0.2


| T   | Key       | Summary  |
|---|-----------|--|
|  | CRUC-6503 | Crucible upgrade may fail in the middle if DB socket timeout too short                               |
|  | CRUC-6555 | Can't use distinct in queries on tables with CLOB types in Oracle                                    |
|  | CRUC-6504 | Review pre-commit tool can fail to include all the lines for an added file with Perforce             |
|  | CRUC-6416 | Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes |

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4 issues

















## 6 June 2013 - Crucible 3.0.1




| T   | Key       | Summary  |
|---|-----------|--|
|  | CRUC-6491 | duplicated null cru_stored_path rows leads to 3.0 upgrade problems |

 Authenticate to retrieve your issues

1 issue

## 28 May 2013 - Crucible 3.0.0

| T   | Key       | Summary  |
|---|-----------|--|
|  | CRUC-6434 | Add disclaimer that "Create crucible review" is only available with FishEye integration              |
|  | CRUC-6414 | Update on 'Editing a Project' documentation  |
|  | CRUC-6271 | Update on Using Gadgets in Crucible documentation  |
|  | CRUC-6410 | Allow /filter/details to include a date range filter   |
|  | CRUC-6361 | Change semantics of j/k shortcuts in Crucible, be consistent with the new diff navigation in Fisheye |
|  | CRUC-6394 | Crucible Project Repository Link is Broken if Leading Slash Is Omitted                               |
|  | CRUC-6391 | Documentation Update for JIRA Integration  |
|  | CRUC-6349 | Crucible and FishEye Page Contains Outdated Information  |
|  | CRUC-4719 | Improve Project Creation/Editing with large user base  |
|  | CRUC-4518 | Crucible regularly hangs and is very slow  |
|  | CRUC-2998 | Iterative pre-commit reviews   |
|  | CRUC-1452 | REST API should notify client if session token is invalid  |
|  | CRUC-6466 | Dismiss barracuda's feature discovery message when it is closed.                                     |
|  | CRUC-6463 | Multiple open transactions in idle instance  |
|  | CRUC-6454 | Scheduled user synchronization doesn't close DB sessions   |
|  | CRUC-6412 | Stream has already been closed on getting Notifications  |

|   |           |  |
|---|-----------|--|
|  | CRUC-6408 | URLs in comments with # followed by ! and other characters are not correctly generated.                    |
|  | CRUC-6398 | Unable to link to JIRA issues containing a project key longer than 10 characters, containing underscores _ |
|  | CRUC-6395 | Inconsistent Repository Links on Project Page  |
|  | CRUC-6390 | Documentation Update for Smart Commits   |



Authenticate to retrieve your issues

Showing 20 out of 30 issues

## Crucible 2.10 release notes

15 January 2013

With great pleasure, Atlassian presents **Crucible 2.10**, which introduces the best JIRA integration we have ever built.

- See the [change log](#) for Crucible 2.10.x minor releases.
- [Visit our issue tracker](#) to see the full list of improvements and bug fixes in Crucible and FishEye for this release.
- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.10 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.
- **JIRA 5.0 integration.** The features described below are supported by **JIRA 5.0**, or later, with the latest version of the [JIRA FishEye plugin](#).

### Highlights of this release:

- [Inline Issue Creation](#)
- [Repository Management REST API](#)
- [Repository review creation limit](#)
- [Other announcements](#)



Download

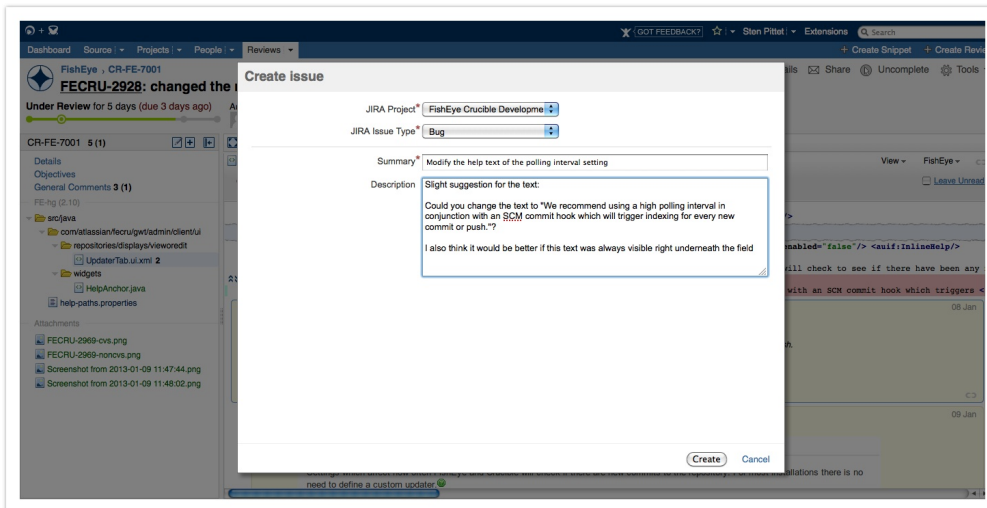
### Providing feedback:

Please log your [votes](#) and [issues](#). They help us decide what needs doing, and are much appreciated!



### Inline Issue Creation

With Crucible 2.10 you can now create any type of issue from your reviews. You only need to link your Crucible and JIRA instances to get it working. Once this is done you can create issues in any JIRA project you have access to.

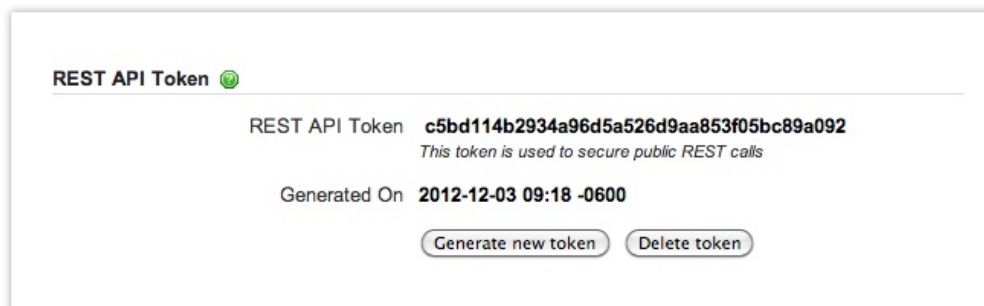


2

## Repository Management REST API

Crucible 2.10 lets you optimize your instance by using the REST API to trigger indexing when it's necessary. Instead of configuring Crucible to poll each repository every minute, you can add a post-commit or post-receive hook to your repositories which will ping Crucible when new commits need to be indexed.

If your repositories are hosted on Bitbucket or Github you will find corresponding Service Hooks in the settings of your repositories which will do the job for you.



3

## Repository review creation limit

Crucible 2.10 now has a limit to prevent oversized reviews from being created during wrong manipulations. We have set the limit fairly high at 800 file revisions, a number way above the recommended number of files per review. The limit will help to prevent your instance from having performance issues.

4

## Other announcements

- Improved performance of the repositories listing in the administration interface.
- Snippets share the same permission as reviews.

- You can now easily step through the diffs in reviews via shortcuts.

## The Crucible 2.10 team

### Development

#### Core team

Brendan Humphreys  
Conor MacNeill  
Geoff Crain  
Lukasz Pater  
Maciej Swinarski  
Piotr wity wicki  
Richard Stephens  
Tom Davies  
Valery Trubnikov

#### Team lead

Nick Pellow

#### Product management

Sten Pittet

#### Project manager

Anton Mazkvoi

### Support

Ajay Sridhar  
Daniel Rohan  
Douglas Fabretti  
Felipe Kraemer  
Gurleen Anand  
Kah Loun Foong  
Leonardo Macedo  
Malik Mangier  
Patrick Hill  
Renan Battaglin  
Rene Verschoor  
Ricardo Martins

### Others

#### Product marketing

Giancarlo Lionetti

#### Quality assurance



George Filippoff  
Mark Hrynczak

Technical writing

Paul Watson


Operations

James Fleming



## Crucible 2.10 changelog


This page contains information about the Crucible 2.10 minor releases. FishEye license holders should also check the [FishEye 2.10 Changelog](#).

See the [Crucible 2.10 release notes](#) for details of what's new in 2.10.

 Please read the [Crucible 2.10 Upgrade Guide](#) before upgrading to any of the minor releases below.

### 3 December 2013 - Crucible 2.10.8 Minor internal fixes


| T   | Key       | Summary  | Status                 |
|---|-----------|--|------------------------|
|  | CRUC-6662 | Privilege escalation   | <a href="#">CLOSED</a> |
|  | CRUC-6552 | Searching over REST for a JIRA Project key doesnt look at Review Linked Issues | <a href="#">CLOSED</a> |

 [Authenticate](#) to retrieve your issues

2 issues


### 17 July 2013 - Crucible 2.10.7


| T   | Key       | Summary   | Status                 |
|---|-----------|---|------------------------|
|  | CRUC-6555 | Can't use distinct in queries on tables with CLOB types in Oracle | <a href="#">CLOSED</a> |

 [Authenticate](#) to retrieve your issues

1 issue


### 05 July 2013 - Crucible 2.10.6


| T   | Key       | Summary  | Status                 |
|---|-----------|--|------------------------|
|  | CRUC-6416 | Optimize number of database queries for Crucible instances with Many Projects and Permission Schemes | <a href="#">CLOSED</a> |

 [Authenticate](#) to retrieve your issues

1 issue





### 06 Jun 2013 - Crucible 2.10.5

| T   | Key       | Summary                                     | Status                 |
|---|-----------|---|------------------------|
|  | CRUC-6463 | Multiple open transactions in idle instance | <a href="#">CLOSED</a> |

 [Authenticate](#) to retrieve your issues



1 issue

**02 Apr 2013 - Crucible 2.10.4**

| T  | Key       | Summary   | Status                 |
|--|-----------|---|------------------------|
|                                       | CRUC-6394 | Crucible Project Repository Link is Broken if Leading Slash Is Omitted                  | <a href="#">CLOSED</a> |
|                                       | CRUC-6412 | Stream has already been closed on getting Notifications                                 | <a href="#">CLOSED</a> |
|                                       | CRUC-6408 | URLs in comments with # followed by ! and other characters are not correctly generated. | <a href="#">CLOSED</a> |
|                                       | CRUC-6395 | Inconsistent Repository Links on Project Page   | <a href="#">CLOSED</a> |
|                                       | CRUC-5238 | URLs with # in comments do not render properly  | <a href="#">CLOSED</a> |
|                                       | CRUC-2747 | Review details says "Reviewer is 100% complete" when she hasn't completed the review    | <a href="#">CLOSED</a> |
|  Authenticate to retrieve your issues |           |   |                        |




6 issues

**19 Mar 2013 - Crucible 2.10.3**

| T  | Key       | Summary  | Status                 |
|--|-----------|--|------------------------|
|                                        | CRUC-6398 | Unable to link to JIRA issues containing a project key longer than 10 characters, containing underscores _ | <a href="#">CLOSED</a> |
|  Authenticate to retrieve your issues |           |  |                        |



1 issue

**25 Feb 2013 - Crucible 2.10.2**


| T  | Key       | Summary   | Status                 |
|--|-----------|---|------------------------|
|                                       | CRUC-6385 | An SQLException can corrupt a connection in the connection pool and cause Crucible to become unstable | <a href="#">CLOSED</a> |
|                                       | CRUC-6383 | Inline Issue Creation doesn't remember the last issue type selected                                   | <a href="#">CLOSED</a> |
|                                       | CRUC-6380 | Reinstate the Star/Favourite link for comments  | <a href="#">CLOSED</a> |
|                                       | CRUC-6350 | JIRA errors being displayed inline on review comments   | <a href="#">CLOSED</a> |
|                                       | CRUC-6345 | Can not remove reviewers in IE  | <a href="#">CLOSED</a> |
|                                       | CRUC-6268 | When creating issue from comment summary put by the user gets lost on JIRA/project change             | <a href="#">CLOSED</a> |
|                                       | CRUC-6246 | User hovers are broken in IE9 (and probably 8 and 10 as well)   | <a href="#">CLOSED</a> |
|  Authenticate to retrieve your issues |           |   |                        |

7 issues

**29 Jan 2013 - Crucible 2.10.1**




















| T   | Key       | Summary   | Status                 |
|---|-----------|---|------------------------|
|  | CRUC-6274 | Update Add Comments related Crucible document     | <a href="#">CLOSED</a> |
|  | CRUC-6344 | Change Inline Issue Creation upgrade task warning | <a href="#">CLOSED</a> |

|   |           |   |        |
|---|-----------|---|--------|
|  | CRUC-6342 | LazyInitializationException during indexing of repositories containing Changeset Comments | CLOSED |
|  | CRUC-6333 | IIC Plugin makes unneeded AJAX requests on pages other than the review page               | CLOSED |


 Authenticate to retrieve your issues

4 issues

## 15 Jan 2013 - Crucible 2.10.0

| T   | Key       | Summary  | Status |
|---|-----------|--|--------|
|    | CRUC-6282 | If an Entity Link is present between a JIRA Project and a Crucible Project, then a review created from the JIRA Source Tab should default to the entity linked Crucible Project. | CLOSED |
|    | CRUC-6351 | Managing Add-Ons Page Refers to Add-On That Is Not Compatible With Latest Versions   | CLOSED |
|    | CRUC-6143 | When Creating Jira Issues From a Code Review Provide Capability to Handle REQUIRED Fields  | CLOSED |
|    | CRUC-6031 | Need keyboard shortcuts for moving to previous, current, and next diff.  | CLOSED |
|    | CRUC-5847 | The Graph should display % and also value.   | CLOSED |
|    | CRUC-5628 | Add Ability to Limit Number and/or Size of Crucible Reviews  | CLOSED |
|    | CRUC-6267 | No success/error notification when creating JIRA issue directly from comment   | CLOSED |
|    | CRUC-6266 | Smart commit plugin does not handle multi-line commit messages   | CLOSED |
|   | CRUC-6259 | Share review user suggestion contain deleted user  | CLOSED |
|  | CRUC-6249 | There is no pre-load handling for next diff?   | CLOSED |
|  | CRUC-6248 | Double infinite spinner, what does it mean?  | CLOSED |
|  | CRUC-6210 | Deleted users are appearing in reviewer, moderator dropdown  | CLOSED |
|  | CRUC-6142 | "Edit Review Details" end sometimes in "The server is not responding" but the server is ok   | CLOSED |
|  | CRUC-6072 | FeCru REST API docs don't provide description of the XML tags.   | CLOSED |
|  | CRUC-6038 | Error creating subtask in JIRA: com.atlassian.jira.rpc.exception.RemotePermissionException: This issue does not exist or you don't have permission to view it.                   | CLOSED |
|  | CRUC-5716 | GWT error when navigating away from loading page   | CLOSED |
|  | CRUC-5666 | Snippet review link is displayed even if user doesn't have permission to create a review in any project  | CLOSED |
|  | CRUC-2667 | Not able to create the subtask in JIRA if some of the fields are required in the subtask creation screen   | CLOSED |
|  | CRUC-2202 | NPE thrown when trying to change project key   | CLOSED |


 Authenticate to retrieve your issues

19 issues

## Crucible 2.10 upgrade guide

Please refer to the [FishEye 2.10 upgrade guide](#) for important notes on upgrading to Crucible 2.10.

For details of the new features and improvements in this release, please read the [Crucible 2.10 Release Notes](#).

### Upgrading to Crucible 2.10

**Crucible Subtask Creation has been deprecated**

If you are currently using issue subtask creation please read the following section.

▼ [Click here to expand...](#)

We have improved JIRA issue creation from Crucible with a feature called Inline Issue Creation. It uses JIRA APIs introduced in JIRA 5.0, so it is not compatible with earlier versions. It also has some changed behaviour from the old "Crucible Subtask Creation".

*If you are using JIRA 4.4 or earlier*

The new feature will not be compatible with your JIRA version. You can revert back to the old behaviour if you want to continue being able to create Crucible subtasks from review comments.

Disabling of the plugin should be automatic on upgrade. Crucible will poll your linked JIRA servers to check their version. If a version earlier than JIRA 5.0 is detected, the 'Inline Issue Creation' plugin will be disabled.

If the plugin is not disabled you can revert to the old behaviour by clicking **Manage Add-ons**, under 'System Settings' in the Admin area. Click **Show system plugins**, find the 'Inline Issue Creation' plugin, and disable it. When you upgrade your JIRA server, you can come back here to re-enable the plugin.

*If you are using JIRA 5.0 or later*

Removed functionality:

- The ability to "Resolve" after the issue has been created has been removed. Users will now have to transition issues via the JIRA interface.
- Existing subtasks that have been created will still be visible, however you will not be able to resolve them.

New functionality:

- We now support various required fields, both built-in and custom field types.
- There is no longer any configuration required, except for the Application Link to JIRA.
- We now support 'normal' (non-subtask) issue creation, users can choose what Project and Issue Type to create in, and we support various required fields.
- There is now a report at the top of the review for all issues created.
- There is now a Remote Issue Link from the JIRA issue back to the comment.
  - Note that Issue Linking can be disabled in JIRA.
  - The user creating the issue must have the permission to create Remote Issue Links.
  - The latest version of the JIRA FishEye Plugin will hide these links from users without the View Source permission.

## Crucible 2.9 release notes

**14 November 2012**

With great pleasure, Atlassian presents **Crucible 2.9**, which introduces the best JIRA integration we have ever built.

- See the [change log](#) for Crucible 2.9.x minor releases.
- [Visit our issue tracker](#) to see the full list of improvements and bug fixes in Crucible and FishEye for this release.
- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.9 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.
- **JIRA 5.0 integration.** The features described below are supported by **JIRA 5.0**, or later, with the latest version of the [JIRA FishEye plugin](#).

Highlights of this release:

- [Simpler JIRA integration](#)
- [Better performance of the Reviews tab in JIRA](#)

- Faster review creation for large teams
- Other announcements

Download

Providing feedback:

Please log your [votes and issues](#) . They help us decide what needs doing, and are much appreciated!

1

## Simpler JIRA integration

With Crucible 2.9, linking your instance to JIRA is as simple as Plug & Play. As soon as you create an Application Link between your JIRA server and your Crucible instance, you get all the power of the JIRA / Crucible integration:

- See in JIRA the list of reviews corresponding to a specific issue
- Navigate to the related review from your issue page
- Get the JIRA data corresponding to issues mentioned in your review comments, titles and objectives

You no longer need to create and maintain multiple links between projects in JIRA and projects in Crucible. Maintaining your JIRA / Crucible integration has never been simpler! [More...](#)

### Activity

All Comments Work Log History Activity Commits Source Reviews Builds

▼ CR-FE-6832 Closed

[FEGRU-2765](#): re-enable highlights for ie

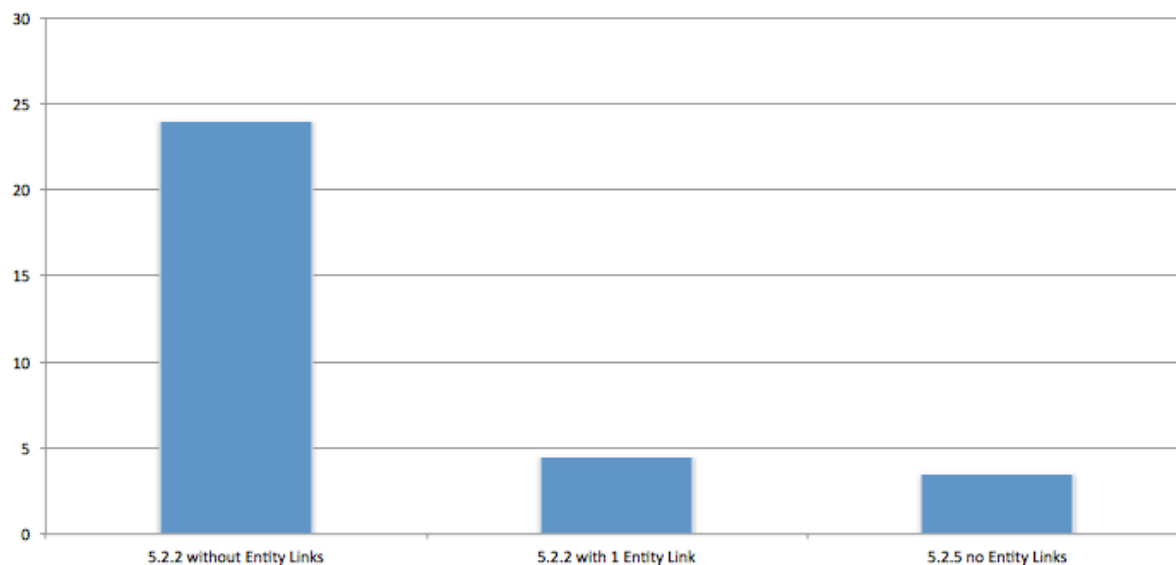
{cs:id=e32efa760e915697497b33e10303821747274139|rep=FE-hg}: [FEGRU-2765](#): re-enable highlights for ie

Comment

2

## Better performance of the Reviews tab in JIRA

When we changed the implementation of the Crucible / JIRA integration we also improved the performance of the Reviews Tab display in JIRA. You will see your reviews in JIRA faster, even without having to create any links between your JIRA project and your Crucible repositories. In other words, with Crucible 2.9 you spend less time administering your instance, while your users get all the relevant content in JIRA in a better way than before.

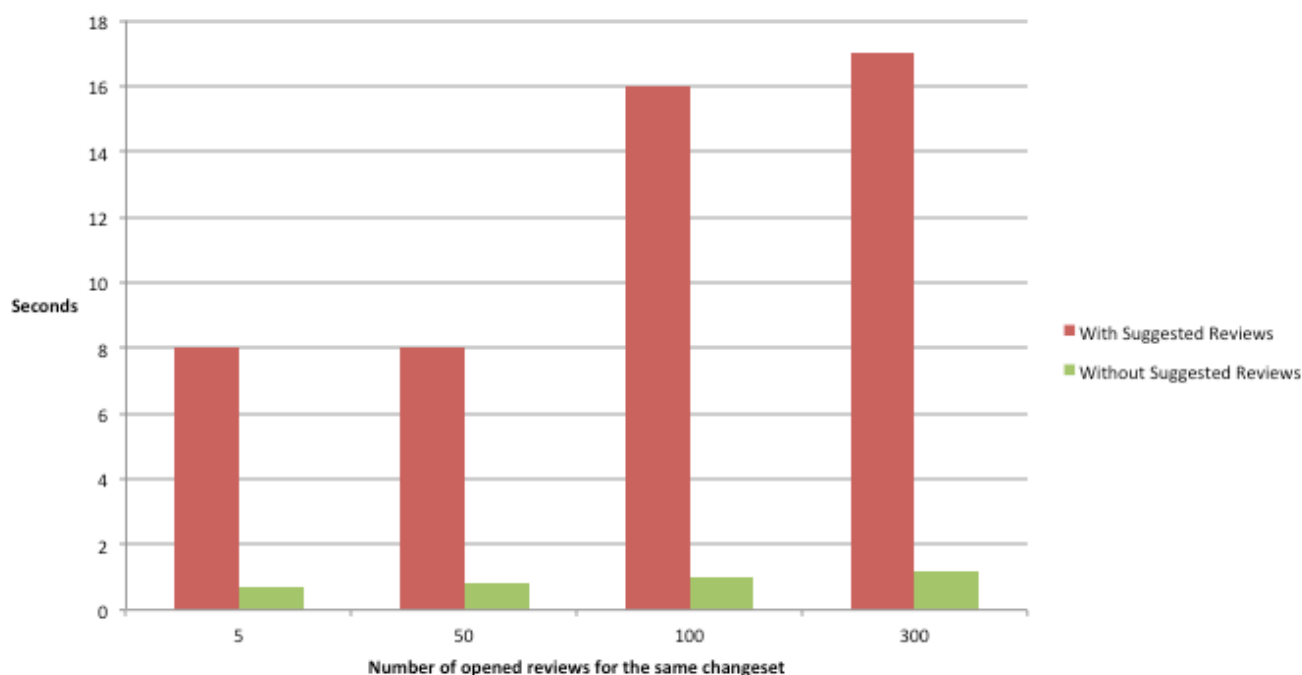
**Reviews Tab Performance**

### 3

#### Faster review creation for large teams

Crucible is a tool that is built to help organizations and distributed teams perform code reviews. When you have large teams you can find that you always have a large number of reviews waiting to be closed. Prior to Crucible 2.9, this could slow down the review creation process because Crucible looked for other reviews where changesets might have been included.

With Crucible 2.9 we have removed the Suggested Reviews step during review creation. Not only does this accelerate the process, but it also ensures that performance of the whole Crucible instance is not impacted by a single process. The chart below shows the performance improvement we have seen from this modification.

**Benchmark for review creation**

## 3

**Other announcements**

- **Suggested reviews removed**

As described above, we have removed the suggested reviews step during review creation, to improve Crucible performance and to ensure that review creation never interferes with the responsiveness of your Crucible instance.

- **Remote API setting always on**

We have removed the Remote API setting from the Server Settings page. From this release onwards, Remote APIs are always accessible, which helps to make the JIRA integration straightforward.

- **Changes to the JIRA settings dialog**

- *Allow Time Tracking Submission* is no longer a configurable option. Users are always able to submit time for their reviews when the JIRA integration is set up.
- We have simplified permissions by removing the *Disable for Unmapped Projects* setting. All permissions to view the reviews tab are now controlled by the Project permission settings in JIRA.
- *Force Project Mappings* has been removed as part of simplifying the JIRA FishEye Plugin behavior. Project links are respected, and act as restrictions on the integration.
- *Max review age* is now only applied to versions of Crucible prior to 2.9.0.

- **Changes to the diff view in reviews**

In order to facilitate the review process and give a clearer interface to see all the modifications and comments on a particular file we are now showing one file at a time in the reviews. You can use the file tree or the keyboard shortcuts to navigate between files.

## The Crucible 2.9 team

### Development

#### Core team

Brendan Humphreys  
Conor MacNeill  
Geoff Crain  
Lukasz Pater  
Maciej Swinarski  
Piotr wity wicki  
Richard Stephens  
Tom Davies  
Valery Trubnikov

**Team lead**

Nick Pellow

**Product management**

Sten Pittet

**Project manager**

Anton Mazkvoi

**Support**

Ajay Sridhar  
 Daniel Rohan  
 Douglas Fabretti  
 Felipe Kraemer  
 Gurleen Anand  
 Kah Loun Foong  
 Leonardo Macedo  
 Malik Mangier  
 Patrick Hill  
 Renan Battaglin  
 Rene Verschoor  
 Ricardo Martins

**Others****Product marketing**

Giancarlo Lionetti

**Quality assurance**

George Filippoff

**Technical writing**

Paul Watson

**Operations**

James Fleming

**Crucible 2.9 changelog**

This page contains information about the Crucible 2.9 minor releases. FishEye license holders should also check the [FishEye 2.9 Changelog](#).

See the [Crucible 2.9 release notes](#) for details of what's new in 2.9.0.






Please read the [Crucible 2.9 Upgrade Guide](#) before upgrading to any of the minor releases below.

**From 2.9.1 to 2.9.2****11 December 2012**

This is a bug fix release. The complete list of issues is below.

| T | Key                     | Summary  | Assignee                      | Reporter                      | P | Status        | Resolution | Created      | Updated      |
|---|-------------------------|--|-------------------------------|-------------------------------|---|---------------|------------|--------------|--------------|
|   | <a href="#">FE-4392</a> | Svnkit fine logging causes very large debug logs | Conor MacNeill<br>[Atlassian] | Conor MacNeill<br>[Atlassian] | ✓ | <b>CLOSED</b> | Fixed      | Dec 04, 2012 | Dec 11, 2012 |
|   | <a href="#">FE-4391</a> | Validation of start-rev in admin is incorrect    | Conor MacNeill<br>[Atlassian] | Conor MacNeill<br>[Atlassian] | ✓ | <b>CLOSED</b> | Fixed      | Dec 04, 2012 | Dec 11, 2012 |
|   | <a href="#">FE-4368</a> | Changeset Comment re-indexing incorrectly        | Brendan                       | Brendan                       | ⬆ | <b>CLOSED</b> | Fixed      | Nov 20,      | Dec 11,      |



|   | uses a threadlocal session. | Humphreys<br>[Atlassian]  | Humphreys<br>[Atlassian]            |                            |  |                   | 2012  | 2012            |                 |
|---|-----------------------------|---|-------------------------------------|----------------------------|--|-------------------|-------|-----------------|-----------------|
|    | FE-4357                     | Improve the way permissions are handled, as a lot of time is spent in user/repo permission checks, which should be cached | Brendan<br>Humphreys<br>[Atlassian] | Geoff Crain<br>[Atlassian] |  | <div>CLOSED</div> | Fixed | Nov 07,<br>2012 | Jun 14,<br>2013 |
| <div> Authenticate to retrieve your issues</div> |                             |   |                                     |                            |  |                   |       |                 |                 |

4 issues

**From 2.9.0 to 2.9.1****19 November 2012**

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary                                     | Assignee                | Reporter                   | P | Status        | Resolution | Created      | Updated      |
|---|-----------|---|-------------------------|----------------------------|---|---------------|------------|--------------|--------------|
|   | CRUC-6279 | Next review comment button does not work    | Unassigned              | Kah Loun Foong [Atlassian] |   | <b>CLOSED</b> | Fixed      | Nov 21, 2012 | Nov 26, 2012 |
|   | CRUC-6272 | Crucible calls out to JIRA once per Comment | Geoff Crain [Atlassian] | Geoff Crain [Atlassian]    |   | <b>CLOSED</b> | Fixed      | Nov 13, 2012 | Nov 19, 2012 |





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2 issues

**Crucible 2.9****14 November 2012**

The complete list of issues is below.

| T | Key       | Summary  | Assignee                      | Reporter                     | P | Status        | Resolution |
|---|-----------|--|-------------------------------|------------------------------|---|---------------|------------|
|   | CRUC-6372 | Update doco for "Opening the List of People"                                       | Paul Watson [Atlassian]       | Malik Mangier [Atlassian]    |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-6351 | Managing Add-Ons Page Refers to Add-On That Is Not Compatible With Latest Versions | Unassigned                    | Ricardo Martins [Atlassian]  |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-6163 | Display month in a literal format for the due date                                 | Val Trubnikov [Atlassian]     | Sten Pittet [Atlassian]      |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-6129 | Odd and Even rows in all tables should have different shading between rows.        | Jeroen De Raedt [Atlassian]   | Robert Massaioli [Atlassian] |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-2752 | if backup cant stop one repository, no caches are included                         | Conor MacNeill [Atlassian]    | Geoff Crain [Atlassian]      |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-6238 | Perforce patches cannot be anchored  | Richard Stephens [Atlassian]  | Richard Stephens [Atlassian] |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-6231 | Gravatar-s avatars dont show   | Brendan Humphreys [Atlassian] | Malik Mangier [Atlassian]    |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-6204 | Dead link on README.html file  | Nick Pellow [Atlassian]       | Katie Grigoratou [Atlassian] |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-6138 | Deadlocks occur in c3p0 GooGoStatementCache when using MS SQL Server               | Val Trubnikov [Atlassian]     | Tom Davies [Atlassian]       |   | <b>CLOSED</b> | Fixed      |
|   | CRUC-6105 | Chrome crashes if during a code review the user navigate using the shortcuts       | Maciej Swinarski              | Renan Battaglin              |   | <b>CLOSED</b> | Fixed      |

|   |           |  |                                 |                               |   |       |
|---|-----------|--|---------------------------------|-------------------------------|---|-------|
|   |           |  | [Atlassian]                     | [Atlassian]                   |   |       |
|  | CRUC-5781 | In a Review containing a single Attachment, the 'Go to next element' button causes an infinite Javascript loop                         | Maciej Swinarski<br>[Atlassian] | Tom Davies<br>[Atlassian]     |  <b>CLOSED</b> | Fixed |
|  | CRUC-5731 | No entity exists with key \${helper.project.key} of type com.atlassian.applinks.api.application.fecru.FishEyeCrucibleProjectEntityType | Geoff Crain<br>[Atlassian]      | Felipe Kraemer<br>[Atlassian] |  <b>CLOSED</b> | Fixed |

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12 issues

## Crucible 2.9 upgrade guide

Please refer to the [FishEye 2.9 upgrade guide](#) for important notes on upgrading to Crucible 2.9.

For details of the new features and improvements in this release, please read the [Crucible 2.9 Release Notes](#).

## Crucible 2.8 Release Notes

### 15 August 2012

With great pleasure, Atlassian presents **Crucible 2.8**, introducing social features and performance improvements.

See the [change log](#) for Crucible 2.8.x minor releases.

Visit our [issue tracker](#) to see the full list of improvements and bug fixes in Crucible and FishEye for this release.

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.8 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.

#### Highlights of this release:

- [Mentions](#)
- [Shares](#)
- [Improved performance for the projects listing](#)
- [Support for Subversion 1.7](#)
- [End of life announcements](#)

 Download

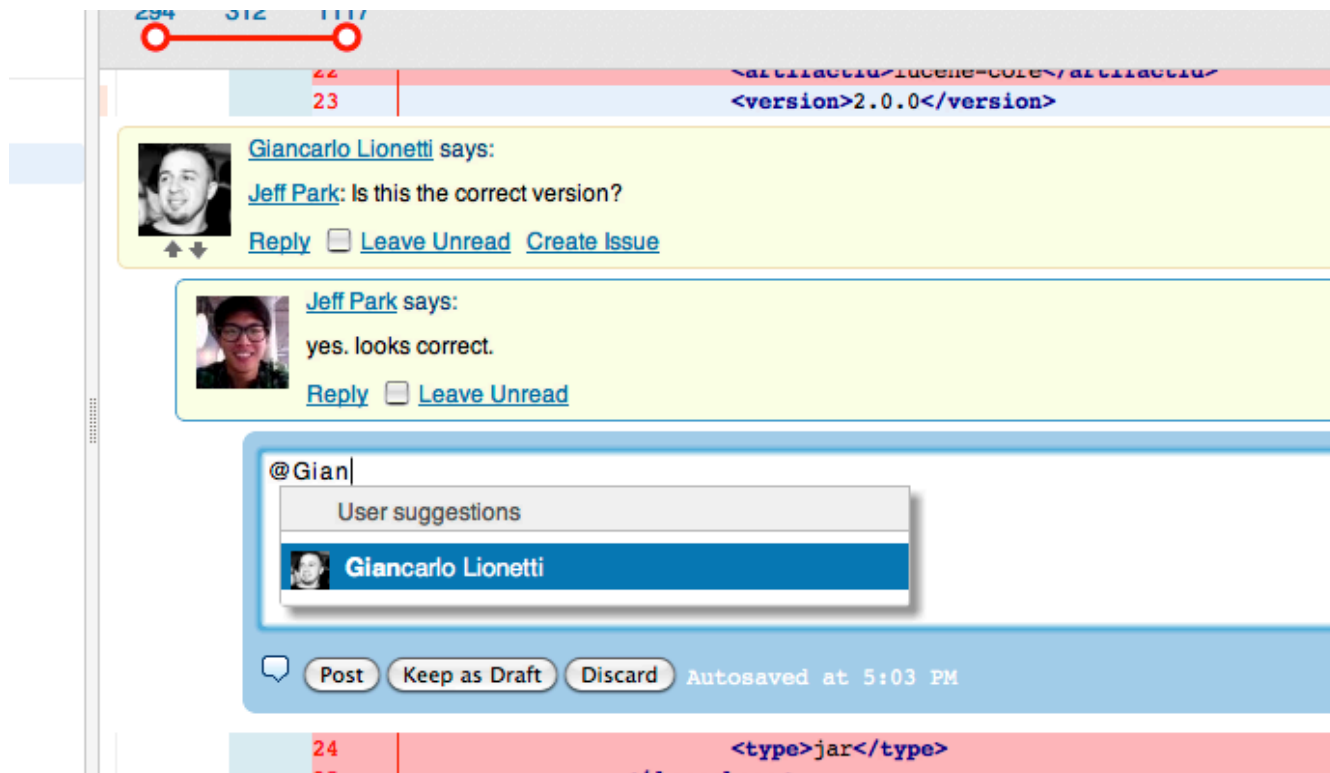
#### Providing feedback:

Please log your [votes](#) and [issues](#). They help us decide what needs doing, and are much appreciated!



#### Mentions

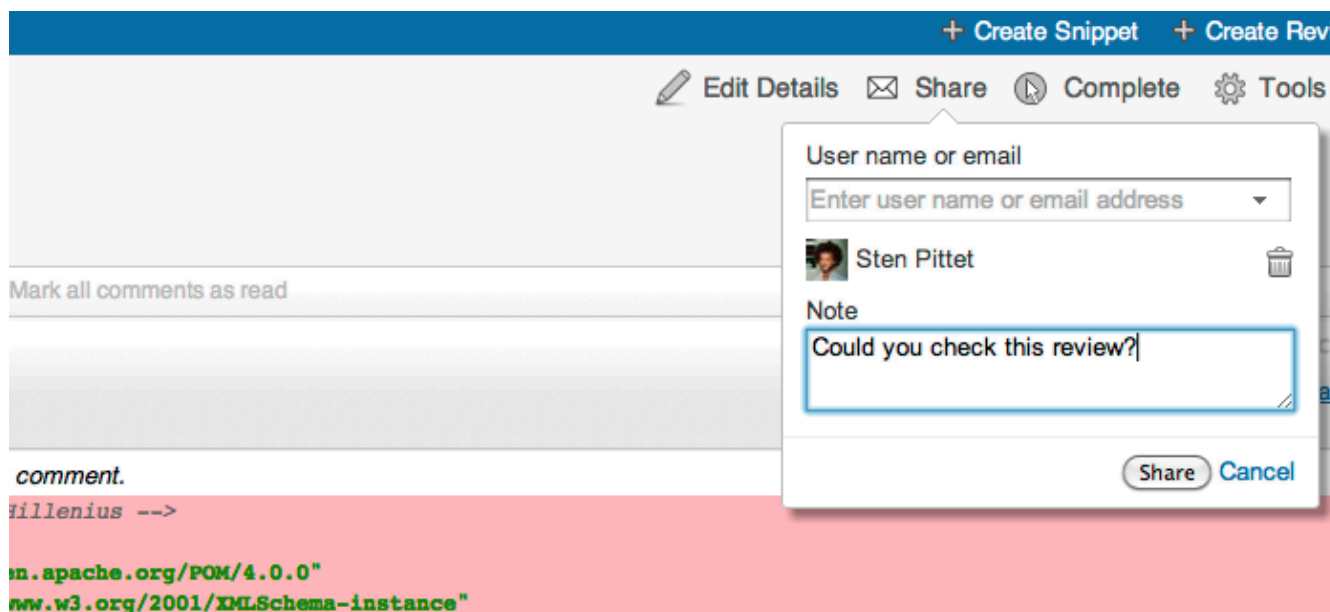
In Crucible 2.8 you can use mentions to notify other users in the changeset discussions, review comments and snippet comments. Simply type @ and the name of the person you would like to notify to create a mention.



## 2

### Shares

You can now share reviews with other users of Crucible as well as external people via their email. Sharing Crucible content has never been easier.



### 3

#### Improved performance for the projects listing

We improved the rendering performance of the projects listing in Crucible.

### 4

#### Support for Subversion 1.7

Crucible now supports Subversion 1.7.

### 5

#### End of life announcements

As [announced earlier](#), support for IBM ClearCase repositories has been removed in Crucible 2.8.



## The Crucible 2.8 team

### Development

#### Core team

Geoff Crain  
Tom Davies  
Brendan Humphreys  
Conor MacNeill  
Richard Stephens

#### Team lead

Nick Pellow

**Product management**

Sten Pittet

**Project manager**

Anton Mazkvoi

**Support**

Ajay Sridhar  
 Armen Khachatryan  
 Daniel Rohan  
 Douglas Fabretti  
 Felipe Kraemer  
 Gurleen Anand  
 Renan Battaglin  
 Rene Verschoor  
 Malik Mangier

**Others****Product marketing**

Giancarlo Lionetti  
 Jeff Park

**Quality assurance**

George Filippoff

**Technical writing**

Paul Watson

**Operations**

James Fleming

**Crucible 2.8 Changelog**

This page contains information about the Crucible 2.8 minor releases. FishEye license holders should also check the [FishEye 2.8 Changelog](#).  
 See the [Crucible 2.8 Release Notes](#) for details of what's new in 2.8.0.



Please read the [Crucible 2.8 Upgrade Guide](#) before upgrading to any of the minor releases below.

**On this page:**

- [From 2.8.1 to 2.8.2](#)
- [From 2.8.0 to 2.8.1](#)
- [Crucible 2.8](#)

**From 2.8.1 to 2.8.2****5 October 2012**



This is a FishEye bug fix release.

**From 2.8.0 to 2.8.1****29 August 2012**

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary  | Assignee    | Reporter        | P | Status              | Resolution | Created      | Updated      |
|---|-----------|--|-------------|-----------------|---|---------------------|------------|--------------|--------------|
|   | CRUC-6203 | Notifications/Shares don't work if Oracle is being used. | Geoff Crain | Renan Battaglin |   | <span>CLOSED</span> | Fixed      | Aug 28, 2012 | Mar 12, 2013 |

[Atlassian] [Atlassian]

|   |           |   |                            |                            |   |                     |       |              |              |
|---|-----------|---|----------------------------|----------------------------|---|---------------------|-------|--------------|--------------|
|  | CRUC-6200 | Missing Attachment Upload Item's cause NullPointerException when viewing a Review which has inline comments on the missing attachment | Geoff Crain<br>[Atlassian] | Nick Pellow<br>[Atlassian] |  | <span>CLOSED</span> | Fixed | Aug 27, 2012 | Aug 29, 2012 |
|---|-----------|---|----------------------------|----------------------------|---|---------------------|-------|--------------|--------------|







Authenticate to retrieve your issues

2 issues

**Crucible 2.8****15 August 2012**

The complete list of issues is below.

| T   | Key       | Summary  | Assignee                         | Reporter                        | P   | Status              | Resolution | Created      | Updated      |
|---|-----------|--|----------------------------------|---------------------------------|---|---------------------|------------|--------------|--------------|
|    | CRUC-6156 | Test upgrade from 2.7 to 2.8 on all Supported DBs  | Unassigned                       | Nick Pellow<br>[Atlassian]      |    | <span>CLOSED</span> | Fixed      | Jun 21, 2012 | Jul 02, 2012 |
|    | CRUC-6104 | Allow sharing reviews using emails or account  | Unassigned                       | Felipe Kraemer<br>[Atlassian]   |    | <span>CLOSED</span> | Fixed      | Apr 04, 2012 | Aug 13, 2012 |
|    | CRUC-5146 | show last indexed time of a repository   | Geoff Crain<br>[Atlassian]       | Geoff Crain<br>[Atlassian]      |    | <span>CLOSED</span> | Fixed      | Dec 12, 2010 | May 09, 2012 |
|    | CRUC-6188 | Crucible privilege escalation vulnerability  | Vitaly Osipov<br>[Atlassian]     | Paul Watson<br>[Atlassian]      |    | <span>CLOSED</span> | Fixed      | Aug 10, 2012 | Jan 20, 2014 |
|  | CRUC-6168 | A null review participant causes review indexing to fail partway through the set of reviews                      | Tom Davies<br>[Atlassian]        | Tom Davies<br>[Atlassian]       |  | <span>CLOSED</span> | Fixed      | Jul 10, 2012 | Sep 27, 2012 |
|  | CRUC-6166 | Setup Func Tests are failing under JDK 1.7   | Geoff Crain<br>[Atlassian]       | Nick Pellow<br>[Atlassian]      |  | <span>CLOSED</span> | Fixed      | Jul 06, 2012 | Jul 09, 2012 |
|  | CRUC-6162 | Investigate why Crucible seems to auto-save always exactly when you go to post a comment.                        | Nick Pellow<br>[Atlassian]       | Nick Pellow<br>[Atlassian]      |  | <span>CLOSED</span> | Fixed      | Jul 02, 2012 | May 02, 2013 |
|  | CRUC-6157 | Re-indexing crucible can cause a NullPointerException if LogItem table contains references to non-existent users | Richard Stephens<br>[Atlassian]  | Richard Stephens<br>[Atlassian] |  | <span>CLOSED</span> | Fixed      | Jun 22, 2012 | Jul 09, 2012 |
|  | CRUC-6151 | Fix performance issues caused by Lower and Upper DB functions  | Geoff Crain<br>[Atlassian]       | Renan Battaglin<br>[Atlassian]  |  | <span>CLOSED</span> | Fixed      | Jun 18, 2012 | Jul 03, 2012 |
|  | CRUC-6149 | Update supported platforms now that Clearcase is no longer supported   | Paul Watson<br>[Atlassian]       | Melanie Wright<br>[Atlassian]   |  | <span>CLOSED</span> | Fixed      | Jun 14, 2012 | Aug 14, 2012 |
|  | CRUC-6132 | NPE on manual reminder email if due date is null   | Roman Tekhov<br>[Atlassian]      | Geoff Crain<br>[Atlassian]      |  | <span>CLOSED</span> | Fixed      | May 23, 2012 | Jul 17, 2012 |
|  | CRUC-6131 | Invalid email notification and inconsistent language   | Geoff Crain<br>[Atlassian]       | Sean Curtis<br>[Atlassian]      |  | <span>CLOSED</span> | Fixed      | May 17, 2012 | Jul 30, 2012 |
|  | CRUC-6130 | Missing parent on one side of a merge fails indexing process   | Brendan Humphreys<br>[Atlassian] | Renan Battaglin<br>[Atlassian]  |  | <span>CLOSED</span> | Fixed      | May 09, 2012 | Jul 05, 2012 |
|  | CRUC-5987 | LDAP/Crowd Users auto-synced and added as crucible users, exceeding licence limit                                | Geoff Crain<br>[Atlassian]       | Matthew Watson<br>[Atlassian]   |  | <span>CLOSED</span> | Fixed      | Nov 29, 2011 | Jun 18, 2012 |
|  | CRUC-5845 | Whitespace at the end of a pasted patch are stripped off   | Tom Davies<br>[Atlassian]        | Rene Verschoor<br>[Atlassian]   |  | <span>CLOSED</span> | Fixed      | Jul 26, 2011 | Sep 17, 2013 |
|  | CRUC-3124 | Permission scheme page fails when the username is renamed  | Conor MacNeill<br>[Atlassian]    | Ming Giet Chong<br>[Atlassian]  |  | <span>CLOSED</span> | Fixed      | Feb 22, 2010 | Jun 19, 2012 |



Authenticate to retrieve your issues

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16 issues

## Crucible 2.8 Upgrade Guide

Below are some important notes on upgrading to **Crucible 2.8**. For details of the new features and improvements in this release, please read the [Crucible 2.8 Release Notes](#).

### On this page:

- [Upgrade Notes](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the Crucible Upgrade](#)

### Related pages:

- [Crucible 2.8 Release Notes](#)

## Upgrade Notes

### Crucible 2.8

- **Crucible 2.8**

A minor schema change has been made to the Crucible SQL Schema in 2.8. If you need to rollback to an earlier version, you will need to restore from a backup to do so. Be sure to take a backup before you upgrade.

Please also be sure to read the [End of Life Announcements for FishEye/Crucible 2.8](#).

## Upgrade Procedure



### Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see [Backing up and restoring Crucible data](#)), i.e.
  - If you are backing up your Crucible instance via the Admin interface, tick all of the '**Include**' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
  - If you are backing up your Crucible instance using the command-line interface, do not use any [exclusion options](#).

If you are already running a version of Crucible, please refer to the [Crucible upgrade guide](#).

## Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues.** Sometimes Atlassian finds out about a problem with the latest version of Crucible after the software is released. In such cases we publish information about the known issues in the [Crucible Knowledge Base](#). Please check there for known issues, and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](#) and one of our support engineers will help you.

## Crucible 2.7 Release Notes

7 September 2011

With great pleasure, Atlassian presents **Crucible 2.7** featuring new JIRA Transitions and Review Reminders.

#### Highlights of this Release:

- [JIRA Transitions in Crucible](#)
- [Review Reminders](#)
- [Small Improvements](#)



- Thank you for all your issues and votes. [Keep logging issues](#) to help us keep improving!
- Read the [release notices](#) for important information about this release.

## Highlights of Crucible 2.7



### JIRA Transitions in Crucible

For Crucible reviews that are linked to JIRA issues, you can now transition these JIRA issues through workflow from within Crucible.

After **closing a review**, Crucible will now display any available transitions for the linked JIRA issue.


### CR-FE-6163 Closed

---


#### Linked issue

---

Issue:

 **FECRU-1401** – Add a review action in the UI to send manual reminder...


Status:

 To be reviewed

Transition issue:

Close

Log work:

 Submit 43m

---

#### You're done!

---

You have no outstanding reviews to attend to right now.

[Dashboard](#) [Close](#)



[More...](#)

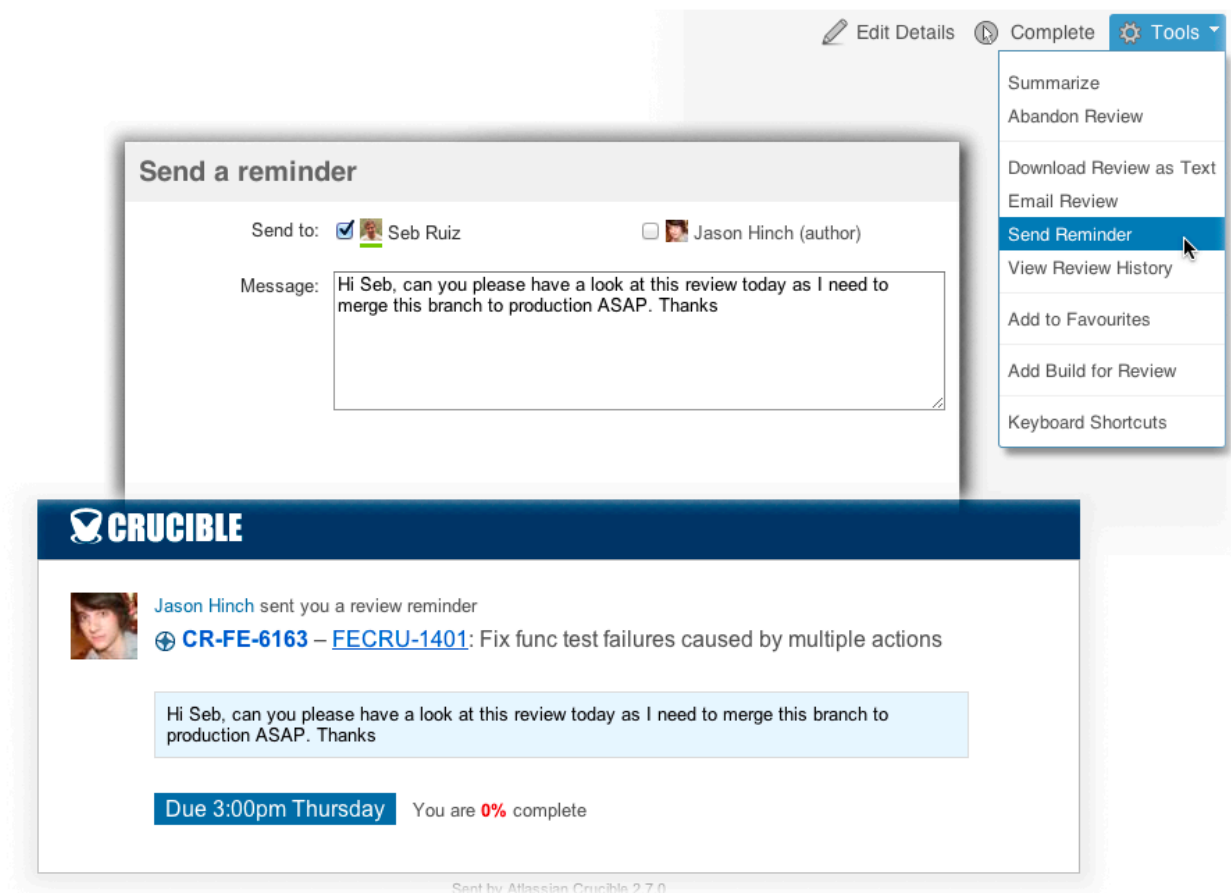
2

## Review Reminders

Crucible will now automatically send reviewers a reminder email one working day before the deadline.

Review authors and moderators can also do the following:

- Send manual reminders to reviewers whose work is still pending.
- Configure preset reminders for reviews that have a deadline.

[More...](#)

3

## Small Improvements

Crucible 2.7 also comes bundled with numerous other bug fixes and improvements, including:

- Syntax highlighting for Java 7, Groovy, Velocity and Scala
- Crucible can now run on Java 7
- Improved user interface for the administration screens
- Improved plugin points for developers

Visit our [issue tracker](#) to see the full list of improvements and bug fixes in Crucible and FishEye for this release.

## Release Notices

- **Upgrading from a previous version of Crucible.** Upgrading Crucible should be fairly straight forward. *We strongly recommend that you back up Crucible before upgrading.* Please refer to the [Crucible 2.7 Upgrade Guide](#) for further essential information about your upgrade.
- **Known Issues.** Please check the [important technical advisories](#) on the front page of the Knowledge Base for information about any known issues for this release.

## Crucible 2.7 Changelog

This page contains information about the Crucible 2.7 minor releases. FishEye license holders should also check the [FishEye 2.7 Changelog](#).

See the [Crucible 2.7 Release Notes](#) for details of what's new in 2.7.0.



Please read the [Crucible 2.7 Upgrade Guide](#) before upgrading to any of the minor releases below.

### On this page:

- [From 2.7.14 to 2.7.15](#)
- [From 2.7.13 to 2.7.14](#)
- [From 2.7.12 to 2.7.13](#)
- [From 2.7.11 to 2.7.12](#)
- [From 2.7.10 to 2.7.11](#)
- [From 2.7.9 to 2.7.10](#)
- [From 2.7.8 to 2.7.9](#)
- [From 2.7.7 to 2.7.8](#)
- [From 2.7.6 to 2.7.7](#)
- [From 2.7.5 to 2.7.6](#)
- [From 2.7.4 to 2.7.5](#)
- [From 2.7.3 to 2.7.4](#)
- [From 2.7.2 to 2.7.3](#)
- [From 2.7.1 to 2.7.2](#)
- [From 2.7.0 to 2.7.1](#)

### From 2.7.14 to 2.7.15

#### 10 July 2012

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary  | Assignee                        | Reporter                        | P | Status              | Resolut |
|---|-----------|--|---------------------------------|---------------------------------|---|---------------------|---------|
|   | FE-4087   | IllegalArgumentException: No local entity with key 'REPONAME' and type 'class com.atlassian.applinks.application.fecru.FishEyeRepositoryEntityTypeImpl' exists             | Geoff Crain<br>[Atlassian]      | Nick Pellow<br>[Atlassian]      |   | <span>CLOSED</span> | Fixed   |
|   | FE-4222   | FishEye privilege escalation vulnerability   | Vitaly Osipov<br>[Atlassian]    | Paul Watson<br>[Atlassian]      |   | <span>CLOSED</span> | Fixed   |
|   | FE-4178   | Getting "No entity exists with key <REPONAME> of type com.atlassian.applinks.api.application.fecru.FishEyeRepositoryEntityType" editing clicking applinks for a repository | Unassigned                      | David Corley                    |   | <span>CLOSED</span> | Fixed   |
|   | FE-4156   | Watch Emails throwing exception in certain circumstances   | Unassigned                      | Nick Pellow<br>[Atlassian]      |   | <span>CLOSED</span> | Fixed   |
|   | CRUC-6188 | Crucible privilege escalation vulnerability  | Vitaly Osipov<br>[Atlassian]    | Paul Watson<br>[Atlassian]      |   | <span>CLOSED</span> | Fixed   |
|   | CRUC-6157 | Re-indexing crucible can cause a NullPointerException if LogItem table contains references to non-existent users   | Richard Stephens<br>[Atlassian] | Richard Stephens<br>[Atlassian] |   | <span>CLOSED</span> | Fixed   |

|  |           |  |            |                            |  |        |       |
|--|-----------|--|------------|----------------------------|--|--------|-------|
|  | CRUC-6136 | java.lang.IllegalArgumentException: No local entity with key 'PROJECTNAME' and type 'class com.atlassian.applinks.application.fecru.FishEyeCrucibleProjectEntityTypeImpl' exists | Unassigned | Rene Verschoor [Atlassian] |  | CLOSED | Fixed |
|--|-----------|--|------------|----------------------------|--|--------|-------|

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7 issues

### From 2.7.13 to 2.7.14

12 June 2012

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary   | Assignee                | Reporter                 | P | Status | Resolution | Created      | Updated      |
|---|-----------|---|-------------------------|--------------------------|---|--------|------------|--------------|--------------|
|   | FE-4119   | Missing changesets cause Hg indexing to fail  | Unassigned              | Tom Davies [Atlassian]   |   | CLOSED | Fixed      | May 30, 2012 | May 31, 2012 |
|   | FE-4111   | If Anon Access is OFF, smart commits that interact with JIRA will not work              | Nick Pellow [Atlassian] | Nick Pellow [Atlassian]  |   | CLOSED | Fixed      | May 25, 2012 | Aug 01, 2012 |
|   | FE-4106   | Fisheye 2.7.13 startup error when FISHEYE_INST have spaces                              | Nick Pellow [Atlassian] | Leo Leung                |   | CLOSED | Fixed      | May 24, 2012 | Jun 08, 2012 |
|   | FE-4105   | 100+ requests of type "updateJiraTimeAjax!default" timing out when modifying Time Spent | Geoff Crain [Atlassian] | Daniel Rohan [Atlassian] |   | CLOSED | Fixed      | May 24, 2012 | Jun 08, 2012 |
|   | FE-4103   | NPE when indexing git repo with missing ancestor  | Tom Davies [Atlassian]  | Tom Davies [Atlassian]   |   | CLOSED | Fixed      | May 22, 2012 | Feb 14, 2014 |
|   | CRUC-6107 | Error synchronizing users: null   | Tom Davies [Atlassian]  | Sheppe Pharis            |   | CLOSED | Fixed      | Apr 05, 2012 | Jun 13, 2012 |

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6 issues

### From 2.7.12 to 2.7.13

21 May 2012

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary   | Assignee                      | Reporter                          | P | Status   | Resolution | Created      |
|---|-----------|---|-------------------------------|-----------------------------------|---|----------|------------|--------------|
|   | FE-3961   | Emulate pre-2.7 behaviour: when an user is created by the user synchronisation, restore any deleted user with the same username | Brendan Humphreys [Atlassian] | Pierre-Etienne Poirot [Atlassian] |   | CLOSED   | Fixed      | Feb 16, 2012 |
|   | CRUC-6092 | Email generated via "Tools -> Email Review" has incorrect comment URLs  | Brendan Humphreys [Atlassian] | Sylvia Yee                        |   | RESOLVED | Fixed      | Mar 16, 2012 |
|   | FE-4019   | web-server/max-threads increases from 20 to 150   | Nick Pellow [Atlassian]       | Nick Pellow [Atlassian]           |   | CLOSED   | Fixed      | Mar 14, 2012 |
|   | FE-4018   | EyeQL Search Results not displaying author fields   | Conor MacNeill [Atlassian]    | Conor MacNeill [Atlassian]        |   | CLOSED   | Fixed      | Mar 27, 2012 |
|   | FE-4017   | Add authenticated user in http response headers for logging ability in reverse proxy  | Brendan Humphreys [Atlassian] | Issa                              |   | CLOSED   | Fixed      | Mar 26, 2012 |
|   | FE-3989   | Allow disabling of precise contentHash to csid mapping  | Tom Davies [Atlassian]        | Tom Davies [Atlassian]            |   | CLOSED   | Fixed      | Mar 09, 2012 |
|   | FE-3922   | Add custom syntax highlighting for shell scripts  | Brendan Humphreys [Atlassian] | Eddie Webb                        |   | CLOSED   | Fixed      | Jan 27, 2012 |

|  |           |   |                               |                                |  |        |       |              |
|--|-----------|---|-------------------------------|--------------------------------|--|--------|-------|--------------|
|  | FE-3495   | com.atlassian.crowd.exception.OperationFailedException if SSO is enabled with JIRA user management  | Brendan Humphreys [Atlassian] | Gurleen Anand [Atlassian]      |  | CLOSED | Fixed | Jun 14, 2011 |
|  | CRUC-6075 | Link to comments from dashboard   | Richard Stephens [Atlassian]  | Frederik Dinkelaker            |  | CLOSED | Fixed | Feb 26, 2012 |
|  | CRUC-6017 | Allow plugins to detect when a draft comment is published   | Richard Stephens [Atlassian]  | Olli Nevalainen [Atlassian]    |  | CLOSED | Fixed | Jan 05, 2012 |
|  | CRUC-6009 | Allow plugins to detect changes to reviewers or moderator   | Brendan Humphreys [Atlassian] | Olli Nevalainen [Atlassian]    |  | CLOSED | Fixed | Dec 22, 2011 |
|  | FE-4084   | hidden text behind the left navigation panel when using Firefox 12                                  | Unassigned                    | Leonardo De Macedo [Atlassian] |  | CLOSED | Fixed | May 01, 2012 |
|  | FE-4070   | Fisheye does not allow username returned by AuthToken to be different from username entered by user | Richard Stephens [Atlassian]  | Richard Stephens [Atlassian]   |  | CLOSED | Fixed | Apr 19, 2012 |
|  | FE-4060   | CC Indexing can fetch version 0 and index it even if before the start date.                         | Conor MacNeill [Atlassian]    | Conor MacNeill [Atlassian]     |  | CLOSED | Fixed | Apr 17, 2012 |
|  | FE-4044   | Lack of usernames element in security config can stop AJPAuth working                               | Conor MacNeill [Atlassian]    | Conor MacNeill [Atlassian]     |  | CLOSED | Fixed | Apr 11, 2012 |
|  | FE-4043   | Handle NPE caused by changeset without a position value in Commit Graph                             | Conor MacNeill [Atlassian]    | Conor MacNeill [Atlassian]     |  | CLOSED | Fixed | Apr 11, 2012 |
|  | FE-4036   | P4 GetLatestRevision will fail for paths with no revisions - leads to excessive logging.            | Conor MacNeill [Atlassian]    | Conor MacNeill [Atlassian]     |  | CLOSED | Fixed | Apr 05, 2012 |
|  | FE-4034   | Copy from a file which existed before the start-revision is ignored.                                | Conor MacNeill [Atlassian]    | Conor MacNeill [Atlassian]     |  | CLOSED | Fixed | Apr 04, 2012 |
|  | FE-4029   | Store Perforce Branch Details   | Tom Davies [Atlassian]        | Tom Davies [Atlassian]         |  | CLOSED | Fixed | Apr 03, 2012 |
|  | FE-4025   | Modified port not reflected in startup message of uninitialized FishEye                             | Brendan Humphreys [Atlassian] | Rene Verschoor [Atlassian]     |  | CLOSED | Fixed | Mar 31, 2012 |



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Showing 20 out of 39 issues

**From 2.7.11 to 2.7.12****16 April 2012**

This is a bug fix release. The complete list of issues is below.

| T | Key     | Summary  | Assignee                   | Reporter                   | P | Status | Resolution | Created      | Updated      |
|---|---------|--|----------------------------|----------------------------|---|--------|------------|--------------|--------------|
|   | FE-4016 | FishEye XML Vulnerability                                | Vitaly Osipov [Atlassian]  | Paul Watson [Atlassian]    |   | CLOSED | Fixed      | Mar 26, 2012 | Jan 20, 2014 |
|   | FE-4001 | Perforce branches are unnecessarily, repeatedly, scanned | Tom Davies [Atlassian]     | Tom Davies [Atlassian]     |   | CLOSED | Fixed      | Mar 15, 2012 | Apr 03, 2012 |
|   | FE-4000 | Corruption of CrossRepository Index Properties           | Conor MacNeill [Atlassian] | Conor MacNeill [Atlassian] |   | CLOSED | Fixed      | Mar 14, 2012 | Mar 22, 2012 |
|   | FE-3996 | Cleartool since date format need to be English           | Conor MacNeill [Atlassian] | Conor MacNeill [Atlassian] |   | CLOSED | Fixed      | Mar 12, 2012 | Mar 22, 2012 |
|   | FE-3976 | ClassCastException on startup on windows                 | Richard Stephens           | Wannes Geysen              |   | CLOSED | Fixed      | Feb 27, 2012 | Apr 11, 2012 |

[Atlassian]

|   |         |   |                        |                        |   |               |       |              |              |
|---|---------|---|------------------------|------------------------|---|---------------|-------|--------------|--------------|
|  | FE-3970 | Commit Calendar incorrect for projects including several paths in the same repository | Tom Davies [Atlassian] | Tom Davies [Atlassian] |  | <b>CLOSED</b> | Fixed | Feb 23, 2012 | Feb 29, 2012 |
|  | FE-3969 | The 'Parameters' on the 'Database Configuration' page are ignored.                    | Tom Davies [Atlassian] | Tom Davies [Atlassian] |  | <b>CLOSED</b> | Fixed | Feb 22, 2012 | Oct 03, 2012 |











































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7 issues

**From 2.7.10 to 2.7.11****27 February 2012**

This is a bug fix release. The complete list of issues is below.

| T   | Key       | Summary  | Assignee                      | Reporter  | P   | Status        |
|---|-----------|--|-------------------------------|---|---|---------------|
|    | FE-3941   | Add a limit for the number of paths to index to a changeset  | Matthew Watson [Atlassian]    | Matthew Watson [Atlassian]  |    | <b>CLOSED</b> |
|    | FE-3937   | Add properties to stop branch and tag point ancestry detection for SVN   | Matthew Watson [Atlassian]    | Matthew Watson [Atlassian]  |    | <b>CLOSED</b> |
|    | FE-3931   | Null Pointer Exception<br>com.cenqua.fisheye.rep.impl.CommonFileRevision.setAuthor(CommonFileRevision.java:149)        | Brendan Humphreys [Atlassian] | Cardinal Armand du Piessis de Richelieu<br>First Minister of Louis XIII |    | <b>CLOSED</b> |
|  | FE-3958   | Content Indexing: Filter the paths to index before processing the list twice.  | Matthew Watson [Atlassian]    | Matthew Watson [Atlassian]  |  | <b>CLOSED</b> |
|  | FE-3957   | Lucene re-index is only triggered for cross-repo until after first commit  | Matthew Watson [Atlassian]    | Matthew Watson [Atlassian]  |  | <b>CLOSED</b> |
|  | FE-3956   | Content Indexing: Add an option to only index trunk, not root and trunk  | Matthew Watson [Atlassian]    | Matthew Watson [Atlassian]  |  | <b>CLOSED</b> |
|  | FE-3955   | ReIndex: Only delete all the content docs if there are >0 docs in the index  | Matthew Watson [Atlassian]    | Matthew Watson [Atlassian]  |  | <b>CLOSED</b> |
|  | CRUC-6051 | Improve performance of the Review Blockers Report plugin   | Nick Pellow [Atlassian]       | Nick Pellow [Atlassian]   |  | <b>CLOSED</b> |
|  | FE-3953   | Per user LoC figures are meaningless when the 'All' button is selected   | Tom Davies [Atlassian]        | Tom Davies [Atlassian]  |  | <b>CLOSED</b> |
|  | FE-3952   | Breadcrumb links on the Users tab are incorrect when a branch is selected  | Tom Davies [Atlassian]        | Tom Davies [Atlassian]  |  | <b>CLOSED</b> |
|  | FE-3939   | PHP syntax highlighting incorrectly matches keywords at the end of function names                                      | Brendan Humphreys [Atlassian] | Chris Butler  |  | <b>CLOSED</b> |
|  | FE-3934   | Changesets with large number of revisions can exhaust heap   | Conor MacNeill [Atlassian]    | Conor MacNeill [Atlassian]  |  | <b>CLOSED</b> |
|  | FE-3932   | FishEye appears hung on upgrade, till upgrade finishes.  | Conor MacNeill [Atlassian]    | Matthew Watson [Atlassian]  |  | <b>CLOSED</b> |
|  | FE-3921   | Fisheye treats files as binary if they used to have a svn:mime-type property, even after the property has been removed | Michael Heemskerk [Atlassian] | Michael Heemskerk [Atlassian]   |  | <b>CLOSED</b> |

|   |         |   |                               |                            |   |                       |
|---|---------|---|-------------------------------|----------------------------|---|-----------------------|
|  | FE-3908 | Investigate lib dir containing random JS files and directories. and scmutils.jar is missing.          | Unassigned                    | Nick Pellow [Atlassian]    |  | <a href="#">CLOSE</a> |
|  | FE-3905 | Upgrade from 2.5->2.7 fires events for all commits and replays all smart commits                      | Matthew Watson [Atlassian]    | Matthew Watson [Atlassian] |  | <a href="#">CLOSE</a> |
|  | FE-3885 | Smart Commits: Using the #time command with a complex time format (i.e. 2d 4h) only saves the 2d part | Nick Pellow [Atlassian]       | Felipe Cuozzo [Atlassian]  |  | <a href="#">CLOSE</a> |
|  | FE-3859 | Unable to add users when using IE8  | Seb Ruiz [Atlassian]          | Felipe Kraemer [Atlassian] |  | <a href="#">CLOSE</a> |
|  | FE-3851 | Old broken Support Zip link still present   | Brendan Humphreys [Atlassian] | Rene Verschoor [Atlassian] |  | <a href="#">CLOSE</a> |
|  | FE-3608 | Issue keys, wrapped in square brackets [JRA-9] are not linked correctly in quick search results       | Brendan Humphreys [Atlassian] | Nick Pellow [Atlassian]    |  | <a href="#">CLOSE</a> |







 Authenticate to retrieve your issues


Showing 20 out of 25 issues

### From 2.7.9 to 2.7.10

#### 20 January 2012

This is a bug fix release. The complete list of issues is below.

| T   | Key     | Summary  | Assignee   | Reporter                   | P  | Status                 | Resolution | Created      | Updated      |
|---|---------|--|------------|----------------------------|--|------------------------|------------|--------------|--------------|
|  | FE-3903 | Unable to see FishEye activity stream in JIRA Activity Stream gadget on dashboard when have Repository with no description | Unassigned | Matthew Watson [Atlassian] |  | <a href="#">CLOSED</a> | Fixed      | Jan 19, 2012 | Jan 19, 2012 |
|  | FE-3902 | Issue Transition controls don't appear when closing a review   | Unassigned | None                       |  | <a href="#">CLOSED</a> | Fixed      | Jan 19, 2012 | Jan 19, 2012 |
|  | FE-3900 | fecru-review-issue-transition-plugin fails under fisheye 2.7.9 due to incompatible class change error                      | Unassigned | Nick Pellow [Atlassian]    |  | <a href="#">CLOSED</a> | Fixed      | Jan 19, 2012 | Jan 19, 2012 |

 Authenticate to retrieve your issues

3 issues

### From 2.7.8 to 2.7.9

#### 19 January 2012

This is a bug fix release. The complete list of issues is below.

| T   | Key       | Summary  | Assignee                          | Reporter                          | P  | Status                 | Resolution | Created      | Updated      |
|---|-----------|--|-----------------------------------|-----------------------------------|--|------------------------|------------|--------------|--------------|
|  | CRUC-6027 | New parameter to GET /rest-service/projects-v1 to optionally load all user data. If false, ProjectData.getAllowedReviewers will return an empty list | Nick Pellow [Atlassian]           | Nick Pellow [Atlassian]           |  | <a href="#">CLOSED</a> | Fixed      | Jan 15, 2012 | Jan 18, 2012 |
|  | CRUC-5999 | Add REST end point for getting the list of groups  | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |  | <a href="#">CLOSED</a> | Fixed      | Dec 07, 2011 | Dec 12, 2011 |
|  | FE-3896   | FishEye wrongly removes admin privileges for a Crowd group when Crowd is not up when FishEye is starting up  | Nick Pellow [Atlassian]           | Alex Wei [Atlassian]              |  | <a href="#">CLOSED</a> | Fixed      | Jan 05, 2012 | Jan 18, 2012 |
|  | FE-3891   | Webwork 2 vulnerability  | Vitaly Osipov [Atlassian]         | Paul Watson [Atlassian]           |  | <a href="#">CLOSED</a> | Fixed      | Jan 17, 2012 | Dec 23, 2013 |

|  |           |  |                               |                               |  |        |       |              |              |
|--|-----------|--|-------------------------------|-------------------------------|--|--------|-------|--------------|--------------|
|  | FE-3888   | FishEye does not correctly handle moved tags   | Conor MacNeill [Atlassian]    | Conor MacNeill [Atlassian]    |  | CLOSED | Fixed | Jan 16, 2012 | Jan 18, 2012 |
|  | FE-3884   | DefaultUserManager.getUsersInGroup incorrectly acquires a write lock instead of a read lock  | Brendan Humphreys [Atlassian] | Brendan Humphreys [Atlassian] |  | CLOSED | Fixed | Jan 13, 2012 | Jan 13, 2012 |
|  | FE-3880   | P4 client doesn't handle job names with a leading -  | Brendan Humphreys [Atlassian] | Brendan Humphreys [Atlassian] |  | CLOSED | Fixed | Jan 09, 2012 | Jan 10, 2012 |
|  | FE-3878   | When processing performe file revisions, only branch specs that have been added or modified since the last restart are considered    | Anna Buttfield [Atlassian]    | Anna Buttfield [Atlassian]    |  | CLOSED | Fixed | Jan 08, 2012 | Jan 09, 2012 |
|  | FE-3875   | SVN property changes with content lines containing certain strings break diff parsing  | Anna Buttfield [Atlassian]    | Anna Buttfield [Atlassian]    |  | CLOSED | Fixed | Jan 04, 2012 | Jan 18, 2012 |
|  | FE-3862   | JS errors in ie8   | Anna Buttfield [Atlassian]    | Anna Buttfield [Atlassian]    |  | CLOSED | Fixed | Dec 14, 2011 | Jan 18, 2012 |
|  | FE-3861   | lock mismanagement in LuceneConnection   | Brendan Humphreys [Atlassian] | Brendan Humphreys [Atlassian] |  | CLOSED | Fixed | Dec 13, 2011 | Dec 13, 2011 |
|  | FE-3817   | Clicking on repository in Fisheye Administration generates error dialog in IE8   | Anna Buttfield [Atlassian]    | Felipe Kraemer [Atlassian]    |  | CLOSED | Fixed | Nov 04, 2011 | Jan 17, 2012 |
|  | FE-3790   | Trying to look at the source of an empty file results in java.lang.ArrayIndexOutOfBoundsException - 1                                | Brendan Humphreys [Atlassian] | Rene Verschoor [Atlassian]    |  | CLOSED | Fixed | Oct 20, 2011 | Dec 23, 2011 |
|  | CRUC-6028 | Internal avatar on changeset comment is broken   | Anna Buttfield [Atlassian]    | Brian McKenna [Atlassian]     |  | CLOSED | Fixed | Jan 05, 2012 | Jan 18, 2012 |
|  | CRUC-6022 | getReviewsByIds performs N queries   | Brendan Humphreys [Atlassian] | Brendan Humphreys [Atlassian] |  | CLOSED | Fixed | Jan 10, 2012 | Jan 12, 2012 |
|  | CRUC-6013 | If during review creation the content of a file revision can't be uploaded (via FishEye), that file is regarded as having no content | Geoff Crain [Atlassian]       | Anna Buttfield [Atlassian]    |  | CLOSED | Fixed | Dec 28, 2011 | Aug 28, 2012 |
|  | CRUC-6010 | Crucible search doesn't deal properly with author user names containing punctuation  | Anna Buttfield [Atlassian]    | Anna Buttfield [Atlassian]    |  | CLOSED | Fixed | Dec 22, 2011 | Jan 09, 2012 |
|  | CRUC-6008 | Stopped repositories cause NPEs in crucible reviews  | Unassigned                    | Anna Buttfield [Atlassian]    |  | CLOSED | Fixed | Dec 22, 2011 | Feb 09, 2012 |
|  | CRUC-6003 | Timelines only work with a small set of timezones  | Anna Buttfield [Atlassian]    | Eric Dalgliesh [Atlassian]    |  | CLOSED | Fixed | Dec 15, 2011 | Jan 09, 2012 |
|  | CRUC-5996 | Review creator is unavailable from within ReviewCreatedEvent handler   | Nick Pellow [Atlassian]       | Adrian Hempel [Atlassian]     |  | CLOSED | Fixed | Dec 06, 2011 | Dec 14, 2011 |



Authenticate to retrieve your issues

Showing 20 out of 23 issues

**From 2.7.7 to 2.7.8****30 November 2011**

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary  | Assignee                          | Reporter                          | P | Status | Resolution | Created      | Updated      |
|---|-----------|--|-----------------------------------|-----------------------------------|---|--------|------------|--------------|--------------|
|   | CRUC-5984 | UI improvements to the Edit classification admin screen                | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |   | CLOSED | Fixed      | Nov 25, 2011 | Nov 29, 2011 |
|   | CRUC-5968 | Allow files with no extension to be treated as text rather than binary | Pierre-Etienne Poirot [Atlassian] | Melanie Wright [Atlassian]        |   | CLOSED | Fixed      | Nov 09, 2011 | Nov 29, 2011 |
|   | CRUC-5925 | In Git, our separation of files by branch                              | Pierre-Etienne                    | Wesley Walser                     |   | CLOSED | Fixed      | Sep 28,      | Nov 24,      |



|  |           |  |                                   |                             |  |        |       |              |              |
|--|-----------|--|-----------------------------------|-----------------------------|--|--------|-------|--------------|--------------|
|  |           | can be confusing   | Poirot [Atlassian]                | [Atlassian]                 |  |        |       | 2011         | 2011         |
|  | FE-3846   | crowd admin groups get removed on startup  | Geoff Crain [Atlassian]           | Geoff Crain [Atlassian]     |  | CLOSED | Fixed | Nov 28, 2011 | Nov 29, 2011 |
|  | FE-3842   | "Internal Server Error" on jira issue hover  | Geoff Crain [Atlassian]           | Geoff Crain [Atlassian]     |  | CLOSED | Fixed | Nov 24, 2011 | Nov 24, 2011 |
|  | FE-3839   | autocomplete dropdowns give inconsistent and sometimes wrong results (results missing) | Geoff Crain [Atlassian]           | Geoff Crain [Atlassian]     |  | CLOSED | Fixed | Nov 21, 2011 | Nov 22, 2011 |
|  | FE-3775   | Allowed Review Participants field doesn't work when some users are present             | Pierre-Etienne Poirot [Atlassian] | Adam Ahmed [Atlassian]      |  | CLOSED | Fixed | Oct 11, 2011 | Nov 29, 2011 |
|  | FE-3745   | Changing Block Size triggers a reindex + restart, while only a restart is needed       | Pierre-Etienne Poirot [Atlassian] | Rene Verschoor [Atlassian]  |  | CLOSED | Fixed | Sep 26, 2011 | Nov 25, 2011 |
|  | FE-3040   | FishEye Access Logging is not writing the username                                     | Pierre-Etienne Poirot [Atlassian] | Felipe Kraemer [Atlassian]  |  | CLOSED | Fixed | Apr 27, 2011 | Nov 29, 2011 |
|  | FE-2473   | Cannot find link for downloading latest and greatest RAW revision of a file            | Pierre-Etienne Poirot [Atlassian] | David Hergert               |  | CLOSED | Fixed | Feb 19, 2010 | Nov 30, 2011 |
|  | CRUC-5951 | admin.js fails in IE8  | Pierre-Etienne Poirot [Atlassian] | Renan Battaglin [Atlassian] |  | CLOSED | Fixed | Oct 26, 2011 | Nov 08, 2012 |
|  | CRUC-5927 | Improve behaviour when licence limits are exceeded                                     | Pierre-Etienne Poirot [Atlassian] | Tom Davies [Atlassian]      |  | CLOSED | Fixed | Sep 29, 2011 | Nov 30, 2011 |



Authenticate to retrieve your issues

12 issues

**From 2.7.6 to 2.7.7****21 November 2011**

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary   | Assignee                          | Reporter                          | P | Status | Resolution | Created      | Updated      |
|---|-----------|---|-----------------------------------|-----------------------------------|---|--------|------------|--------------|--------------|
|   | CRUC-5962 | Internal avatars URL are always generated with HTTP urls, even over SSL   | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |   | CLOSED | Fixed      | Nov 07, 2011 | Nov 10, 2011 |
|   | CRUC-1853 | Display preferences menu doesn't disappear when filter menu clicked or menu item is selected  | Jonathan Poh [Atlassian]          | Seb Ruiz [Atlassian]              |   | CLOSED | Fixed      | Jul 23, 2009 | Nov 17, 2011 |
|   | FE-3836   | In SVN, if a tag is created and the identified parent changeset id is not indexed by FishEye the tag won't show up in the branches and tags dropdown or on the commit graph | Anna Buttfield [Atlassian]        | Anna Buttfield [Atlassian]        |   | CLOSED | Fixed      | Nov 17, 2011 | Nov 18, 2011 |
|   | FE-3833   | Perforce jobids are not indexed   | Tom Davies [Atlassian]            | Tom Davies [Atlassian]            |   | CLOSED | Fixed      | Nov 15, 2011 | Nov 17, 2011 |
|   | FE-3832   | Links in RSS feed do not use absolute URLs  | Seb Ruiz [Atlassian]              | Oleg Semyonov                     |   | CLOSED | Fixed      | Nov 15, 2011 | Nov 17, 2011 |
|   | FE-3826   | Jetty log messages are not reported anywhere  | Tom Davies [Atlassian]            | Tom Davies [Atlassian]            |   | CLOSED | Fixed      | Nov 11, 2011 | Nov 17, 2011 |
|   | FE-3822   | mime type mapping for file names rather than suffixes removes first character of candidate file name before matching with key filename                                      | Tom Davies [Atlassian]            | Tom Davies [Atlassian]            |   | CLOSED | Fixed      | Nov 09, 2011 | Nov 17, 2011 |
|   | FE-3174   | When navigating forward in time in activity stream, items are shown earliest to latest down the page  | Michael Studman [Atlassian]       | None                              |   | CLOSED | Fixed      | Sep 22, 2010 | Feb 01, 2012 |
|   | FE-3155   | Browse/diff menu inactives look active and vice-versa   | Jonathan Poh [Atlassian]          | None                              |   | CLOSED | Fixed      | Dec 13, 2010 | Nov 17, 2011 |
|   | CRUC-5977 | Crucible 'active users' list loaded unnecessarily, making review creation and   | Tom Davies [Atlassian]            | Tom Davies [Atlassian]            |   | CLOSED | Fixed      | Nov 15, 2011 | Nov 17, 2011 |



editing slow

|  |           |   |                             |                           |  |        |       |              |              |
|--|-----------|---|-----------------------------|---------------------------|--|--------|-------|--------------|--------------|
|  | CRUC-5972 | Side-by-Side Diffs in Crucible are misaligned. Line number columns are very long          | Adam Ahmed [Atlassian]      | Adam Ahmed [Atlassian]    |  | CLOSED | Fixed | Nov 10, 2011 | Nov 16, 2011 |
|  | CRUC-5957 | Code review reply comments saved as draft, are deleted when any reviewer completes review | Michael Studman [Atlassian] | Maggie Reside             |  | CLOSED | Fixed | Nov 03, 2011 | Nov 11, 2011 |
|  | CRUC-5932 | The side by side diffs displaying display 3 colums instead of 2                           | Adam Ahmed [Atlassian]      | Zed Yap [Atlassian]       |  | CLOSED | Fixed | Oct 06, 2011 | Nov 17, 2011 |
|  | CRUC-5828 | Crucible links to review comments cut off for mail notifications in Microsoft Outlook     | Jonathan Poh [Atlassian]    | Gurleen Anand [Atlassian] |  | CLOSED | Fixed | Jul 15, 2011 | Nov 17, 2011 |
|  | CRUC-5784 | Selecting a folder in File browser in FE on IE8 causes content-view tabs to disappear     | Jonathan Poh [Atlassian]    | Jaie Wilson [Atlassian]   |  | CLOSED | Fixed | Jun 01, 2011 | Nov 14, 2011 |
|  | CRUC-5751 | Double spinners in Branch selector  | Jonathan Poh [Atlassian]    | Tim Pettersen [Atlassian] |  | CLOSED | Fixed | May 02, 2011 | Nov 15, 2011 |
|  | CRUC-5326 | Add revision popup in review vanishes when not hovered over                               | Jonathan Poh [Atlassian]    | Chris Lam [Atlassian]     |  | CLOSED | Fixed | Jan 06, 2011 | Nov 17, 2011 |



















Authenticate to retrieve your issues

17 issues

**From 2.7.5 to 2.7.6****8 November 2011**

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary   | Assignee                          | Reporter                          | P | Status | Resolution | Created      | Updated      |
|---|-----------|---|-----------------------------------|-----------------------------------|---|--------|------------|--------------|--------------|
|   | FE-3816   | Shutdown the thread pool once the background upgrade tasks have been completed                                  | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |   | CLOSED | Fixed      | Nov 04, 2011 | Nov 04, 2011 |
|   | FE-3791   | Change authentication providers to return CommunicationException when appropriate                               | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |   | CLOSED | Fixed      | Oct 21, 2011 | Nov 02, 2011 |
|   | FE-3772   | Add option to enable client authentication SSL  | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |   | CLOSED | Fixed      | Oct 09, 2011 | Oct 18, 2012 |
|   | FE-3611   | Improve the way avatars are loaded to avoid unnecessary calls   | Anna Buttfeld [Atlassian]         | Renan Battaglin [Atlassian]       |   | CLOSED | Fixed      | Jul 29, 2011 | Jan 23, 2013 |
|   | CRUC-5952 | Syntax highlighting for Scala doesn't recognize symbol literals.  | Seb Ruiz [Atlassian]              | Leif Wickland                     |   | CLOSED | Fixed      | Oct 26, 2011 | Oct 31, 2011 |
|   | FE-3823   | If the total length of the branch names selected for the commit graph is too long, the spinner never disappears | Unassigned                        | Tom Davies [Atlassian]            |   | CLOSED | Fixed      | Nov 09, 2011 | Nov 10, 2011 |
|   | FE-3812   | When synchronizing users with LDAP, do not deactivate users if the error is a communication problem             | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |   | CLOSED | Fixed      | Nov 02, 2011 | Nov 02, 2011 |
|   | FE-3809   | Upgrade of instances using Oracle fail when upgrade_75.sql is run   | Anna Buttfeld [Atlassian]         | Renan Battaglin [Atlassian]       |   | CLOSED | Fixed      | Oct 31, 2011 | Nov 02, 2011 |
|   | FE-3794   | Sourcing a Tag from a Tag Can cause FishEye not to display tag contents   | Conor MacNeill [Atlassian]        | Conor MacNeill [Atlassian]        |   | CLOSED | Fixed      | Oct 24, 2011 | Nov 03, 2011 |
|   | FE-3787   | When synchronizing users with Crowd, do not deactivate users if the error is a communication problem            | Pierre-Etienne Poirot [Atlassian] | Adam Ahmed [Atlassian]            |   | CLOSED | Fixed      | Oct 20, 2011 | Aug 20, 2012 |
|   | FE-3784   | Modified tags fail in the branch selector   | Adam Ahmed [Atlassian]            | Adam Ahmed [Atlassian]            |   | CLOSED | Fixed      | Oct 19, 2011 | Nov 03, 2011 |

|   |           |  |                                   |                                    |   |                     |       |              |              |
|---|-----------|--|-----------------------------------|------------------------------------|---|---------------------|-------|--------------|--------------|
|  | FE-3783   | Activity Stream UI sometimes slow in git - it makes calls to git remote show.  | Adam Ahmed [Atlassian]            | Adam Ahmed [Atlassian]             |  | <span>CLOSED</span> | Fixed | Oct 17, 2011 | Nov 04, 2011 |
|  | FE-3767   | WARN messages 'Repository index does not match the repository configuration' incorrectly logged after upgrading to 2.7 | Conor MacNeill [Atlassian]        | Michael Heemskerk [Atlassian]      |  | <span>CLOSED</span> | Fixed | Oct 06, 2011 | Nov 02, 2011 |
|  | FE-3645   | Old non-http/s SimpleLinker configuration passes upgrade but results in error when trying to open repo                 | Pierre-Etienne Poirot [Atlassian] | Rene Verschoor [Atlassian]         |  | <span>CLOSED</span> | Fixed | Aug 15, 2011 | Nov 04, 2011 |
|  | FE-3620   | Displayname not being picked up correctly in some cases with JIRA user management                                      | Pierre-Etienne Poirot [Atlassian] | Gurleen Anand [Atlassian]          |  | <span>CLOSED</span> | Fixed | Aug 04, 2011 | Jan 17, 2012 |
|  | CRUC-5953 | Scala syntax highlighter highlights substrings of identifiers as keywords  | Seb Ruiz [Atlassian]              | Leif Wickland                      |  | <span>CLOSED</span> | Fixed | Nov 01, 2011 | Nov 02, 2011 |
|  | CRUC-5947 | Some browsers drop params to server and Migration to Postgres fails  | Seb Ruiz [Atlassian]              | Gurleen Anand [Atlassian]          |  | <span>CLOSED</span> | Fixed | Oct 20, 2011 | Oct 26, 2011 |
|  | CRUC-5923 | Unable to add files to review using "Explore Repositories" option  | Geoff Crain [Atlassian]           | Piotr Stefan Stefaniak [Atlassian] |  | <span>CLOSED</span> | Fixed | Sep 26, 2011 | Feb 02, 2012 |
|  | CRUC-4888 | quotation marks being double escaped in latest comment text  | Pierre-Etienne Poirot [Atlassian] | Tim Pettersen [Atlassian]          |  | <span>CLOSED</span> | Fixed | Nov 11, 2010 | Nov 09, 2011 |









































Authenticate to retrieve your issues

19 issues

**From 2.7.4 to 2.7.5****21 October 2011**

This is a bug fix release. The complete list of issues is below.

| T   | Key     | Summary  | Assignee                          | Reporter                          | P   | Status              | Resolution | Created      | Updated      |
|---|---------|--|-----------------------------------|-----------------------------------|---|---------------------|------------|--------------|--------------|
|  | FE-3799 | p4 support: Cleanup and Merge the p4 ancestry suppression flag to 2.6/7/default  | Conor MacNeill [Atlassian]        | Matthew Watson [Atlassian]        |  | <span>CLOSED</span> | Fixed      | Sep 27, 2011 | Jan 23, 2013 |
|  | FE-3768 | FishEye logs lots of ApplicationPermissionException when synchronising Crowd users that have no permission on FishEye / Crucible | Michael Heemskerk [Atlassian]     | Michael Heemskerk [Atlassian]     |  | <span>CLOSED</span> | Fixed      | Oct 06, 2011 | Oct 12, 2011 |
|  | FE-3788 | Git does not report an error when creating a managed repository over an existing one   | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |  | <span>CLOSED</span> | Fixed      | Oct 19, 2011 | Oct 20, 2011 |
|  | FE-3777 | Fix documentation of the managed repositories' REST API  | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |  | <span>CLOSED</span> | Fixed      | Oct 12, 2011 | Oct 12, 2011 |
|  | FE-3774 | Search results page fails to render for EyeQL queries > 4000 characters on Oracle.   | Michael Heemskerk [Atlassian]     | Michael Heemskerk [Atlassian]     |  | <span>CLOSED</span> | Fixed      | Oct 11, 2011 | Oct 12, 2011 |
|  | FE-3755 | SVN: Paths under tag directories are displayed as deleted / empty directories (greyed out)                                       | Michael Heemskerk [Atlassian]     | Michael Heemskerk [Atlassian]     |  | <span>CLOSED</span> | Fixed      | Sep 30, 2011 | Oct 12, 2011 |
|  | FE-3752 | Repository path, includes, excludes and hidden directories should be copied to newly created forks                               | Tom Davies [Atlassian]            | Tim Pettersen [Atlassian]         |  | <span>CLOSED</span> | Fixed      | Sep 29, 2011 | Oct 05, 2011 |
|  | FE-3751 | 'Store diffs' setting is not respected for initial imports of SVN repositories   | Michael Heemskerk [Atlassian]     | Michael Heemskerk [Atlassian]     |  | <span>CLOSED</span> | Fixed      | Sep 29, 2011 | Oct 09, 2011 |
|  | FE-3737 | Cannot customize front page with global anonymous access turned off  | Tom Davies [Atlassian]            | Gurleen Anand [Atlassian]         |  | <span>CLOSED</span> | Fixed      | Sep 22, 2011 | Oct 07, 2011 |
|  | FE-3727 | Review coverage report screen messed up when using Firefox 6.0.2 and Chrome  | Michael Studman                   | Camila Ayres [Atlassian]          |  | <span>CLOSED</span> | Fixed      | Sep 16, 2011 | Oct 26, 2011 |

| 12.0.7  |           |  | [Atlassian]                          |                                      |  |                     |       |              |              |
|---|-----------|--|--------------------------------------|--------------------------------------|--|---------------------|-------|--------------|--------------|
|  | FE-3721   | Error when changing content of a review  | Tom Davies<br>[Atlassian]            | Federico Silva Armas<br>[Atlassian]  |  | <span>CLOSED</span> | Fixed | Sep 15, 2011 | Jan 23, 2013 |
|  | FE-3698   | Web Hooks payload received with "application/xml" as the content type                                  | Anna Buttfield<br>[Atlassian]        | Sten Pittet<br>[Atlassian]           |  | <span>CLOSED</span> | Fixed | Sep 07, 2011 | Oct 24, 2011 |
|  | FE-3692   | When pushing to a Git managed repo while another client is cloning, the client which is cloned freezes | Pierre-Etienne Poirot<br>[Atlassian] | Pierre-Etienne Poirot<br>[Atlassian] |  | <span>CLOSED</span> | Fixed | Sep 06, 2011 | Oct 09, 2011 |
|  | FE-3678   | Provide a more friendly message to the users   | Anna Buttfield<br>[Atlassian]        | Zed Yap<br>[Atlassian]               |  | <span>CLOSED</span> | Fixed | Sep 05, 2011 | Oct 13, 2011 |
|  | FE-2625   | code metrics error for branches directories  | Pierre-Etienne Poirot<br>[Atlassian] | Tracey Lum<br>[Atlassian]            |  | <span>CLOSED</span> | Fixed | Jun 03, 2010 | Oct 11, 2011 |
|  | CRUC-5914 | 'Allow anon users' permission is broken for all but 'view review' and should be removed.               | Tom Davies<br>[Atlassian]            | Michael Studman<br>[Atlassian]       |  | <span>CLOSED</span> | Fixed | Sep 22, 2011 | Oct 12, 2011 |
|  | CRUC-5913 | Comment permissions don't work for 'all logged in users'   | Tom Davies<br>[Atlassian]            | Michael Studman<br>[Atlassian]       |  | <span>CLOSED</span> | Fixed | Sep 22, 2011 | Oct 07, 2011 |
|  | CRUC-5606 | Very large text files produce OOME when diffing  | Anna Buttfield<br>[Atlassian]        | Tom Davies<br>[Atlassian]            |  | <span>CLOSED</span> | Fixed | Feb 08, 2011 | May 25, 2012 |
|  | CRUC-4435 | Same file shows up twice in a review   | Michael Heemskerk<br>[Atlassian]     | Andrew Myers<br>[Atlassian]          |  | <span>CLOSED</span> | Fixed | Oct 01, 2010 | Oct 11, 2011 |





















Authenticate to retrieve your issues

19 issues

**From 2.7.3 to 2.7.4****28 September 2011**

This is a bug fix release. The complete list of issues is below.

| T   | Key     | Summary  | Assignee                         | Reporter                         | P  | Status              | Resolution | Created      | Updated      |
|---|---------|--|----------------------------------|----------------------------------|--|---------------------|------------|--------------|--------------|
|  | FE-3748 | NullPointerException while loading user preferences from database, causing login failures  | Michael Heemskerk<br>[Atlassian] | Michael Heemskerk<br>[Atlassian] |  | <span>CLOSED</span> | Fixed      | Sep 27, 2011 | Sep 28, 2011 |
|  | FE-3747 | If you edit and then save a managed repository in Internet Explorer, the text "fork of null" will appear and the forks view will no longer be available. | Tim Pettersen<br>[Atlassian]     | Tim Pettersen<br>[Atlassian]     |  | <span>CLOSED</span> | Fixed      | Sep 27, 2011 | Sep 27, 2011 |
|  | FE-3742 | After a user has been deleted and then added again, subsequent deletions fail  | Tom Davies<br>[Atlassian]        | Tom Davies<br>[Atlassian]        |  | <span>CLOSED</span> | Fixed      | Sep 26, 2011 | Sep 27, 2011 |
|  | FE-3741 | Manual Auth Re-Sync button doesn't do anything   | Tom Davies<br>[Atlassian]        | Phil Davies                      |  | <span>CLOSED</span> | Fixed      | Sep 23, 2011 | Sep 27, 2011 |
|  | FE-3738 | Log files not included in support zip  | Matthew Watson<br>[Atlassian]    | Matthew Watson<br>[Atlassian]    |  | <span>CLOSED</span> | Fixed      | Sep 23, 2011 | Jan 17, 2012 |
|  | FE-3735 | Commit events fired on Git repos when branches are added/removed   | Seb Ruiz<br>[Atlassian]          | Matt Ryall<br>[Atlassian]        |  | <span>CLOSED</span> | Fixed      | Sep 22, 2011 | Sep 28, 2011 |
|  | FE-3734 | Error upon exceeding license limit with Crowd user management  | Tom Davies<br>[Atlassian]        | Gurleen Anand<br>[Atlassian]     |  | <span>CLOSED</span> | Fixed      | Sep 22, 2011 | Sep 27, 2011 |
|  | FE-3716 | Hg authentication fails with special character in password   | Michael Studman<br>[Atlassian]   | Gurleen Anand<br>[Atlassian]     |  | <span>CLOSED</span> | Fixed      | Sep 14, 2011 | Jan 17, 2012 |
|  | FE-3168 | Restricting Fisheye content in Projects Has No Effect  | Michael Studman<br>[Atlassian]   | None                             |  | <span>CLOSED</span> | Fixed      | Dec 06, 2010 | Feb 01, 2013 |

|  |           |   |                               |                               |  |               |       |              |              |
|--|-----------|---|-------------------------------|-------------------------------|--|---------------|-------|--------------|--------------|
|  | CRUC-5920 | ConstraintViolationException: Duplicate entry 'xyz' for key 'cru_user_name' after upgrading to 2.7        | Michael Heemskerk [Atlassian] | Michael Heemskerk [Atlassian] |  | <b>CLOSED</b> | Fixed | Sep 26, 2011 | Sep 28, 2011 |
|  | CRUC-5900 | Showing only time for each changeset (not from today) on Add Content to Review screen does not make sense | Seb Ruiz [Atlassian]          | Wojciech Seliga               |  | <b>CLOSED</b> | Fixed | Sep 11, 2011 | Oct 05, 2011 |
|  | CRUC-5891 | the crucible changeset activity was never updated to the new layout, which means some css is broken       | Geoff Crain [Atlassian]       | Geoff Crain [Atlassian]       |  | <b>CLOSED</b> | Fixed | Sep 06, 2011 | Sep 21, 2011 |
|  | CRUC-5866 | Unable to link issue due to no OAuth prompt   | Michael Studman [Atlassian]   | Conor MacNeill [Atlassian]    |  | <b>CLOSED</b> | Fixed | Aug 16, 2011 | Sep 22, 2011 |

Authenticate to retrieve your issues

13 issues

### From 2.7.2 to 2.7.3

## 20 September 2011

This is a bug fix release. The complete list of issues is below.

| T | Key     | Summary  | Assignee                          | Reporter                          | P | Status        | Resolution | Created      | Updated      |
|---|---------|--|-----------------------------------|-----------------------------------|---|---------------|------------|--------------|--------------|
|   | FE-3717 | Augment the git-http-backend from 1min to 1hour        | Pierre-Etienne Poirot [Atlassian] | Pierre-Etienne Poirot [Atlassian] |   | <b>CLOSED</b> | Fixed      | Sep 15, 2011 | Sep 19, 2011 |
|   | FE-3635 | Backup fails if write.lock file still exists in lucene | Michael Studman [Atlassian]       | Renan Battaglin [Atlassian]       |   | <b>CLOSED</b> | Fixed      | Aug 09, 2011 | Jan 17, 2012 |

Authenticate to retrieve your issues

2 issues

### From 2.7.1 to 2.7.2

## 19 September 2011

This is a bug fix release. The complete list of issues is below.

| T | Key       | Summary   | Assignee                   | Reporter                    | P | Status        | Resolution | Created      | Update       |
|---|-----------|---|----------------------------|-----------------------------|---|---------------|------------|--------------|--------------|
|   | FE-3616   | Change com.cenqua.fisheye.logging.DailyRollingFileAppender to keep the extension .log | Conor MacNeill [Atlassian] | Felipe Cuozzo [Atlassian]   |   | <b>CLOSED</b> | Fixed      | Aug 02, 2011 | Jan 17, 2012 |
|   | CRUC-5896 | JIRA title is often too long and wraps  | Seb Ruiz [Atlassian]       | Seb Ruiz [Atlassian]        |   | <b>CLOSED</b> | Fixed      | Sep 08, 2011 | Sep 14, 2011 |
|   | FE-3718   | Eclipse Git integration (egit) fails to clone from managed Git repository             | Unassigned                 | Tim Pettersen [Atlassian]   |   | <b>CLOSED</b> | Fixed      | Sep 15, 2011 | Sep 19, 2011 |
|   | FE-3711   | Some Directory links in Quick Search have double encoded URLs                         | Jason Hinch [Atlassian]    | Jason Hinch [Atlassian]     |   | <b>CLOSED</b> | Fixed      | Sep 12, 2011 | Jan 17, 2012 |
|   | FE-3696   | Web Hooks should be deleted when deleting a repository                                | Tom Davies [Atlassian]     | Seb Ruiz [Atlassian]        |   | <b>CLOSED</b> | Fixed      | Sep 07, 2011 | Sep 14, 2011 |
|   | FE-3693   | Pagination numbers at bottom of Repositories screen overlap with system info footer   | Jonathan Poh [Atlassian]   | Rene Verschoor [Atlassian]  |   | <b>CLOSED</b> | Fixed      | Sep 06, 2011 | Sep 15, 2011 |
|   | FE-3647   | Google collections and Guava both bundled, package exported without version           | Conor MacNeill [Atlassian] | Richard Wallace [Atlassian] |   | <b>CLOSED</b> | Fixed      | Aug 15, 2011 | Sep 14, 2011 |
|   | CRUC-5902 | changeset discussion autosave fails with error dialog                                 | Tom                        | Joe Xie                     |   | <b>CLOSED</b> | Fixed      | Sep 13,      | Sep 14,      |

|  |           |   |                                |                           |  |        |       |              |              |
|--|-----------|---|--------------------------------|---------------------------|--|--------|-------|--------------|--------------|
|  |           | when no comment is entered  | Davies<br>[Atlassian]          | [atlassian]               |  |        |       | 2011         | 2011         |
|  | CRUC-5888 | Closing the Send Reminder dialog via Esc doesn't reset it.  | Adam Ahmed<br>[Atlassian]      | Adam Ahmed<br>[Atlassian] |  | CLOSED | Fixed | Sep 06, 2011 | Sep 13, 2011 |
|  | CRUC-5886 | If the current user is a review's author, then switches to a reviewer, they show up in the manual Send Reminder dialog. | Adam Ahmed<br>[Atlassian]      | Adam Ahmed<br>[Atlassian] |  | CLOSED | Fixed | Sep 06, 2011 | Sep 13, 2011 |
|  | CRUC-5885 | Review reminder notes do not render new lines in email  | Michael Studman<br>[Atlassian] | Seb Ruiz<br>[Atlassian]   |  | CLOSED | Fixed | Sep 06, 2011 | Sep 13, 2011 |
|  | CRUC-3298 | Should be able to mark files as text when the scm reports binary  | Unassigned                     | Eduardo M                 |  | CLOSED | Fixed | Apr 09, 2010 | Oct 11, 2011 |
| <a href="#">Authenticate</a> to retrieve your issues |           |   |                                |                           |  |        |       |              |              |

12 issues

**From 2.7.0 to 2.7.1****9 September 2011**

This is a bug fix release. The complete list of issues is below.

| T  | Key       | Summary   | Assignee                             | Reporter                         | P | Status | Resolution | Created      | Updated      |
|--|-----------|---|--------------------------------------|----------------------------------|---|--------|------------|--------------|--------------|
|  | FE-3701   | CommitHookModuleDescriptor#enable can fail if ActiveObjectsConfiguration for Commit Hooks Plugin is not available yet | Jason Hinch<br>[Atlassian]           | Jason Hinch<br>[Atlassian]       |   | CLOSED | Fixed      | Sep 08, 2011 | Sep 12, 2011 |
|  | FE-3700   | Can't reset user password   | Pierre-Etienne Poirot<br>[Atlassian] | Conor MacNeill<br>[Atlassian]    |   | CLOSED | Fixed      | Sep 07, 2011 | Sep 09, 2011 |
|  | FE-3695   | Deleting a web hook dialog has a broken layout  | Jason Hinch<br>[Atlassian]           | Seb Ruiz<br>[Atlassian]          |   | CLOSED | Fixed      | Sep 07, 2011 | Sep 09, 2011 |
|  | FE-3694   | Testing a Web Hook doesn't send mock changeset displayId  | Seb Ruiz<br>[Atlassian]              | Seb Ruiz<br>[Atlassian]          |   | CLOSED | Fixed      | Sep 07, 2011 | Sep 07, 2011 |
|  | FE-3018   | Unnecessary implicit antglobbing in Query3  | Brendan Humphreys<br>[Atlassian]     | Brendan Humphreys<br>[Atlassian] |   | CLOSED | Fixed      | Apr 11, 2011 | Oct 05, 2012 |
|  | CRUC-3298 | Should be able to mark files as text when the scm reports binary  | Unassigned                           | Eduardo M                        |   | CLOSED | Fixed      | Apr 09, 2010 | Oct 11, 2011 |
| <a href="#">Authenticate</a> to retrieve your issues |           |   |                                      |                                  |   |        |            |              |              |

6 issues

**Crucible 2.7 Upgrade Guide**

Below are some important notes on upgrading to **Crucible 2.7**. For details of the new features and improvements in this release, please read the [Crucible 2.7 Release Notes](#).

**On this page:**

- [Upgrade Notes](#)
  - [Crucible 2.7](#)
- [Upgrade Procedure](#)
- [Checking for Known Issues and Troubleshooting the Crucible Upgrade](#)

**Upgrade Notes****Crucible 2.7**

- **Crucible Confluence LightSCM Plugin has Been Removed from Crucible**

Previously, Crucible shipped with a plugin to enable reviews against content in Confluence. Since Confluence 4's new editor will no longer support wiki markup, this plugin has been deprecated. The Crucible plugin source as well as the source for the Confluence SCM plugin will remain open-source and are available via the Plugin Exchange at the following locations:

| Crucible Plugin | Confluence Crucible Plugin |
|-----------------|----------------------------|
|-----------------|----------------------------|

- **Crucible 2.7 adds ActiveObjects support**

ActiveObjects allows plugins to store configuration data in the database. Please note, any already scheduled backups will not have plugin data included during backups. Please modify your scheduled backup configuration appropriately to include ActiveObjects backups.

Confluence has a number of free and commercially available review and workflow plugins. We recommend taking a look at these, to implement a smooth review process for Confluence pages.

### Upgrade Procedure



#### Before you begin

- Test your upgrades in your test environment before rolling into production.
- Back up your **entire** Crucible instance (see [Backing up and restoring Crucible data](#)), i.e.
  - If you are backing up your Crucible instance via the Admin interface, tick all of the 'Include' checkboxes (e.g. plugins, templates, uploads, SQL database, etc).
  - If you are backing up your Crucible instance using the command-line interface, do not use any [exclusion options](#).

If you are already running a version of Crucible, please refer to the [Crucible upgrade guide](#).

### Checking for Known Issues and Troubleshooting the Crucible Upgrade

If something is not working correctly after you have completed the steps above to upgrade your Crucible installation, please check for known Crucible issues and try troubleshooting your upgrade as described below:

- **Check for known issues.** Sometimes Atlassian finds out about a problem with the latest version of Crucible after the software is released. In such cases we publish information about the known issues in the Crucible Knowledge Base. Please check the [Crucible 2.7 Known Issues](#) in the Crucible Knowledge Base and follow the instructions to apply any necessary patches if necessary.
- **Did you encounter a problem during the Crucible upgrade?** Please refer to the guide to [troubleshooting upgrades](#) in the Crucible Knowledge Base.
- If you encounter a problem during the upgrade and cannot solve it, please create a [support ticket](#) and one of our support engineers will help you.

### RELATED TOPICS

[Crucible 2.7 Release Notes](#)

## Security advisories

### Finding and reporting a security vulnerability

The channel for reporting a security issue is detailed in [How to Report a Security Issue](#).

### Publication of security advisories

Atlassian's approach to publishing security advisories is detailed in [Security Advisory Publishing Policy](#).

### Severity levels

Atlassian's scale for measuring security issues is detailed in [Severity Levels for Security Issues](#).

### Our patch policy



Atlassian's approach to releasing patches is detailed in our [Security Patch Policy](#).

### Security advisories

- [FishEye and Crucible Security Advisory 2013-07-16](#)
- [FishEye and Crucible Security Advisory 2012-08-21](#)
- [FishEye and Crucible Security Advisory 2012-05-17](#)
- [FishEye and Crucible Security Advisory 2012-01-31](#)
- [FishEye and Crucible Security Advisory 2011-11-22](#)
- [FishEye and Crucible Security Advisory 2011-05-16](#)
- [FishEye and Crucible Security Advisory 2011-01-12](#)
- [Crucible Security Advisory 2010-06-16](#)
- [Crucible Security Advisory 2010-05-04](#)
- [FishEye and Crucible Security Advisory 2014-02-26](#)

### FishEye and Crucible Security Advisory 2013-07-16

This advisory discloses security vulnerabilities that we have found in FishEye/Crucible and fixed in a recent version of FishEye/Crucible.

- **Customers who have downloaded and installed FishEye/Crucible** should upgrade their existing FishEye/Crucible installations to fix this vulnerability.
- **Atlassian OnDemand customers** are not affected by any of the issues described in this advisory.

Atlassian is committed to improving product security.

The vulnerability listed in this advisory is a **vulnerability in a third-party framework - Struts 2 / WebWork 2** that is used by FishEye/Crucible. The vulnerability has been independently discovered by Atlassian and reported to the Struts maintainers.

More details about the underlying Struts vulnerability CVE-2013-2251 are available at the [CVE database](#) and in the [Struts advisory](#).

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

### OGNL injection in WebWork 2

#### Severity

Atlassian rates the severity level of this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

This is an independent assessment and you should evaluate its applicability to your own IT environment.

#### Description

We have fixed a vulnerability in WebWork 2, which is a part of the Struts web framework. In specific circumstances, attackers can use this vulnerability to execute Java code of their choice on systems that use these frameworks. In the case of FishEye/Crucible, the attacker needs to be able to access the FishEye/Crucible web interface. A valid user account is not required to exploit this vulnerability.

Customers should be advised that this affects all versions of FishEye/Crucible, except FishEye/Crucible OnDemand, FishEye/Crucible 2.10.6 and FishEye/Crucible 3.0.2 or later. The issue can be tracked here: [FE-4729 - Webwork 2 code injection vulnerability](#) CLOSED

#### Risk Mitigation

If you are unable to upgrade or patch your FishEye or Crucible server: as a **temporary workaround**, you can do the following:

- Block access to all URLs on a Web Application Firewall or a reverse proxy that contain any of the following strings: "redirect:", "action:" or "redirect-action:" strings. A partial example for an nginx server is below. Note that the example only covers the "redirect:" prefix and does not account for

any URL encoding that may be present.

```
location ~* ^/<path to your FishEye>/ {
    if ($args ~* "redirect:") {
        return 403;
    }
    proxy_pass http://$host.internal$request_uri;
}
```

or

- Block access to your FishEye or Crucible server from untrusted networks, such as the Internet.

### Fix

This vulnerability can be fixed by upgrading FishEye/Crucible. There are no patches available for this vulnerability — for any questions, please raise a support request at <http://support.atlassian.com/>.

The [Security Patch Policy](#) describes when and how we release security patches and security upgrades for our products.

### Upgrading FishEye/Crucible

The fix versions for this vulnerability are described in the 'Description' section above.

We recommend that you upgrade to the latest version of FishEye/Crucible, if possible. For a full description of the latest version of FishEye/Crucible, see the release notes: [FishEye releases](#) / [Crucible release notes](#). You can download the latest version of FishEye/Crucible from the download centre: [FishEye only](#) / [FishEye and Crucible](#). Additionally, if you have large repositories you may want to take a look at the our guide to [Avoiding Long Reindex Times When Upgrading](#).

## FishEye and Crucible Security Advisory 2012-08-21

This advisory discloses security vulnerabilities that we have found in FishEye and/or Crucible and fixed in a recent version of FishEye and/or Crucible.

- **Customers who have downloaded and installed FishEye and/or Crucible** should upgrade their existing FishEye and/or Crucible installations to fix this vulnerability.
- **Atlassian OnDemand and JIRA Studio customers** are not affected by any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerability listed in this advisory has been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

### In this advisory:

- [Elevation of privileges vulnerability](#)

### Elevation of privileges vulnerability

### Severity

Atlassian rates the severity level of this vulnerability as **Medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

This is an independent assessment and you should evaluate its applicability to your own IT environment.

### Description

We have identified and fixed a vulnerability in FishEye and Crucible that results from behaviour of certain third-party frameworks used in FishEye and Crucible. This vulnerability allows any attacker to:

- Set the FishEye and Crucible instance to allow anonymous access



- Set the FishEye and Crucible instance to allow anonymous signup

All versions of FishEye and Crucible up to and including 2.7.14 are affected by this vulnerability. The vulnerability is fixed in FishEye and/or Crucible 2.8.0 and later. This issue can be tracked at

• [FE-4222](#) - FishEye privilege escalation vulnerability CLOSED and

• [CRUC-6188](#) - Crucible privilege escalation vulnerability CLOSED .

The table below describes the FishEye and/or Crucible versions and the specific functionality affected by the vulnerabilities.

| FishEye and/or Crucible Vulnerability | Affected versions | Fixed Version | Issue Tracking   |
|---------------------------------------|-------------------|---------------|--|
| Elevation of privileges               | 2.5.x or earlier  | 2.5.9         | <div> <a href="#">FE-4222</a> - FishEye privilege escalation vulnerability <span>CLOSED</span> </div> <div> <a href="#">CRUC-6188</a> - Crucible privilege escalation vulnerability <span>CLOSED</span> </div> |
|                                       | 2.6.x             | 2.6.9         |  |
|                                       | 2.7.x             | 2.7.15, 2.8.0 |  |

**Note:** The email we sent out wrongly states that fixed versions are 2.5.8 and 2.6.7. FishEye and Crucible development team apologise for the mistake.

### Risk Mitigation

If you cannot upgrade immediately, you can disable all access from the public Internet to your FishEye and/or Crucible instance to prevent external attacks.

### Fix

### Upgrade

The vulnerabilities and fix versions are described in the 'Vulnerability' section above.

We recommend that you upgrade to the latest version of FishEye and/or Crucible, if possible. For a full description of the latest version of FishEye and Crucible, see the [FishEye release notes](#) and [Crucible release notes](#). You can download the latest version of FishEye and Crucible from the [FishEye download centre](#) and [Crucible download centre](#).

There are no patches available.

## FishEye and Crucible Security Advisory 2012-05-17

This advisory discloses a **critical** security vulnerability that exists in all versions of FishEye and Crucible up to and including 2.7.11.

- **Customers who have downloaded and installed FishEye or Crucible** should upgrade their existing FishEye and Crucible installations to fix this vulnerability.
- **Enterprise Hosted customers** need to request an upgrade by raising a support request at <http://support.atlassian.com> in the "Enterprise Hosting Support" project.
- **JIRA Studio and Atlassian OnDemand customers** are not affected by any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerability listed in this advisory has been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

### In this advisory:

- [Critical XML Parsing Vulnerability](#)
  - [Severity](#)
  - [Description](#)

- [Risk Mitigation](#)
- [Fix](#)

## Critical XML Parsing Vulnerability

### Severity

Atlassian rates the severity level of this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, medium or low.

This is an independent assessment and you should evaluate its applicability to your own IT environment.

### Description

We have identified and fixed a vulnerability in FishEye and Crucible that results from the way third-party XML parsers are used in FishEye and Crucible.

This vulnerability allows an attacker to:

- execute denial of service attacks against the FishEye and Crucible server, and
- read all local files readable to the system user under which FishEye and Crucible runs.

An attacker does not need to have an account with the affected FishEye or Crucible server to exploit this vulnerability.

All versions of FishEye and Crucible **up to and including 2.7.11** are affected by this vulnerability. This issue can be tracked here:  [FE-4016 - FishEye XML Vulnerability](#) CLOSED

### Risk Mitigation

We recommend that you upgrade your FishEye and Crucible installation to fix this vulnerability.

Alternatively, if you are not in a position to upgrade immediately, you should do **all** of the following until you can upgrade. Please note, these measures will only limit the impact of the vulnerability, they will not mitigate it completely.

- Disable access to the Remote, SOAP and XML-RPC APIs, if these remote APIs are not required. Note that remote API access is disabled by default. See [enabling plugins](#) for instructions.
- Disable public access (such as [anonymous access](#) and [public signup](#) ) to your FishEye or Crucible instance until you have applied the necessary upgrade.
- Ensure that your FishEye/Crucible system user is restricted as described in [best practices for configuring FishEye security](#).

### Fix

#### Upgrade

Upgrade to FishEye and Crucible 2.7.12 or later which fixes this vulnerability. For a full description of these releases, see the [FishEye](#) and [Crucible](#) release notes. The following releases have also been made available to fix these issues in older FishEye and Crucible versions. You can download these versions from the [FishEye](#) and [Crucible](#) download centres.

- FishEye and Crucible 2.6.8 for FishEye and Crucible 2.6
- FishEye and Crucible 2.5.8 for FishEye and Crucible 2.5

#### Patches

There are no patches available for this vulnerability.

### FishEye and Crucible Security Advisory 2012-01-31

This advisory discloses a **CRITICAL** security vulnerability that we have found in versions of FishEye and Crucible from 2.0 up to and including 2.7.8. You need to upgrade your existing FishEye and Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by raising a support request at <http://support.atlassian.com> in the "Enterprise Hosting Support" project. Neither FishEye nor Crucible in Studio and Atlassian OnDemand are vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been

discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

#### In this advisory:

- [Code Injection Vulnerability](#)
  - [Severity](#)
  - [Description](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)

#### Code Injection Vulnerability

##### Severity

Atlassian rates the severity level of this vulnerability as **CRITICAL**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, medium or low.

##### Description

We have identified and fixed a code injection vulnerability in FishEye and Crucible caused by an underlying vulnerability in the **third-party** Webwork 2 framework. This vulnerability allows an attacker to run arbitrary Java code on a FishEye/Crucible server with user privileges of the FishEye/Crucible process. This vulnerability is a variant of a recently disclosed [Struts2 vulnerability](#). The vulnerability exists in FishEye and Crucible pages accessible only by users with administrative privileges. It can be exploited with use of social engineering, e.g. by having the administrator click on a specially crafted link.

The maintainer of the original library can be contacted at <http://struts.apache.org/>

##### Vulnerability

The table below describes the FishEye and Crucible versions and the specific functionality affected by the command injection vulnerability.

| FishEye and Crucible Component | Affected FishEye and Crucible Versions | Fixed Version  | Issue Tracking          |
|--------------------------------|--|----------------|-------------------------|
| WebWork 2                      | 2.0 - 2.7.8                            | 2.6.7<br>2.7.9 | <a href="#">FE-3891</a> |

##### Risk Mitigation

We recommend that you upgrade your FishEye and Crucible installations to fix this vulnerability.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can restrict access to your instance of FishEye/Crucible by using a firewall.

##### Fix

FishEye and Crucible 2.6.7, 2.7.9 and later versions fix this issue. View the issue linked above for information on fix versions. For a full description of the latest version of FishEye and Crucible, see the [FishEye](#) and [Crucible](#) release notes. You can download the latest versions from the [FishEye](#) and [Crucible](#) download centres. There are no patches available for these issues.

#### FishEye and Crucible Security Advisory 2011-11-22

This advisory discloses a number of security vulnerabilities that we have found and fixed in versions of FishEye/Crucible earlier than 2.5.7. You need to upgrade your existing FishEye and Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by raising a support request at <http://support.atlassian.com/> in the "Enterprise Hosting Support" project. Neither JIRA Studio nor Atlassian OnDemand are vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

#### In this advisory:

- [XSS Vulnerabilities](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerabilities](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Permission Verification Vulnerabilities](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)

#### XSS Vulnerabilities

##### Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, medium or low. These vulnerabilities are **not** critical.

##### Risk Assessment

We have identified and fixed a number of stored cross-site scripting (XSS) vulnerabilities which affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). XSS vulnerabilities allow an attacker to embed their own JavaScript into a FishEye/Crucible page. You can read more about XSS attacks on [Wikipedia](#), at [The Web Application Security Consortium](#) and other places on the web.

##### Vulnerabilities

The table below describes the FishEye/Crucible versions and the specific functionality affected by the XSS vulnerabilities.

| FishEye/Crucible Feature                            | Affected FishEye/Crucible Versions | Fixed Version | Issue Tracking          |
|---|------------------------------------|---------------|-------------------------|
| FishEye user profile - display name                 | 2.5.4 and earlier                  | 2.5.5         | <a href="#">FE-3797</a> |
| FishEye user profile - snippets in a user's comment | 2.5.4 and earlier                  | 2.5.5         | <a href="#">FE-3798</a> |

##### Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable [public signup](#) to your instance as a temporary mitigation until you have applied the upgrade. For tighter access control, you can restrict access to trusted [groups](#).

##### Fix

FishEye and Crucible 2.5.5 and later versions fix two these issues. View the issues linked above for information on fix versions. You can download the latest versions of FishEye and Crucible from the download centres ([FishE](#)

[ye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

#### Permission Verification Vulnerabilities

##### Severity

Atlassian rates the severity level of these vulnerabilities as **medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, medium or low. These vulnerabilities are **not** critical.

##### Risk Assessment

We have identified and fixed two permission verification bugs which affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). These vulnerabilities allow users to view metadata for changesets and reviews, from repositories/projects that they do not have access to, via tooltips.

##### Vulnerability

The table below describes the FishEye/Crucible versions and the specific functionality affected by the vulnerabilities.

| FishEye/Crucible Feature   | Affected FishEye/Crucible Versions | Fixed Version  | Issue Tracking            |
|----------------------------|------------------------------------|----------------|---------------------------|
| FishEye changeset tooltips | FishEye 2.4.6 to 2.5.6             | FishEye 2.5.7  | <a href="#">FE-3811</a>   |
| Crucible review tooltips   | Crucible 2.4.6 to 2.5.6            | Crucible 2.5.7 | <a href="#">CRUC-5811</a> |

##### Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can [disable anonymous access](#) to your instance. Logged-in users will still be able to view metadata that they do not have permission to view, but anonymous users will be prevented from accessing this information.

##### Fix

FishEye and Crucible 2.5.7 and later versions fix these two issues. View the issues linked above for information on earlier fix versions for each issue. For a full description of this release, see the [FishEye 2.5 changelog](#) and [Crucible 2.5 Changelog](#). You can download the latest version of FishEye and Crucible from the download centres ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

### FishEye and Crucible Security Advisory 2011-05-16

This advisory announces a number of security vulnerabilities that we have found and fixed in recent versions of FishEye/Crucible. You need to upgrade your existing FishEye/Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by filing a ticket at <http://support.atlassian.com>. JIRA Studio is not vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

#### In this advisory:

- [XSS Vulnerabilities](#)
  - [Severity](#)
  - [Risk Assessment](#)

- [Vulnerability](#)
- [Risk Mitigation](#)
- [Fix](#)

## XSS Vulnerabilities

### Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

### Risk Assessment

We have identified and fixed a number of cross-site scripting (XSS) vulnerabilities which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). XSS vulnerabilities potentially allow an attacker to embed their own JavaScript into a FishEye/Crucible page. You can read more about XSS attacks at [cgisecurity.com](http://cgisecurity.com), [The Web Application Security Consortium](#) and other places on the web.

### Vulnerability

The table below describes the FishEye/Crucible versions and the specific functionality affected by the XSS vulnerabilities.

| FishEye/Crucible Feature                      | Affected FishEye/Crucible Versions | Issue Tracking            |
|---|------------------------------------|---------------------------|
| Crucible snippets                             | Crucible 2.4.5 to 2.5.0            | <a href="#">CRUC-5734</a> |
| Crucible author mapping                       | Crucible 2.4.5 to 2.5.0            | <a href="#">CRUC-5735</a> |
| Crucible changeset comments in search results | Crucible 2.3.0 to 2.5.0            | <a href="#">CRUC-5736</a> |
| Crucible comments search                      | Crucible 2.2.6 to 2.5.0            | <a href="#">CRUC-5737</a> |
| FishEye/Crucible dashboard - review activity  | FishEye/Crucible 2.2.8 to 2.5.2    | <a href="#">FE-3031</a>   |
| FishEye/Crucible reviews list                 | FishEye/Crucible 2.2.8 to 2.5.2    | <a href="#">FE-3032</a>   |

### Risk Mitigation

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable [public signup](#) to your instance until you have applied the upgrade. For even tighter control, you could restrict access to trusted [groups](#).

### Fix

FishEye/Crucible 2.5.4 fixes all of these issues. View the issues linked above for information on earlier fix versions for each issue. For a full description of this release, see the [FishEye 2.5 changelog](#) and [Crucible 2.5 Changelog](#). You can download the latest version of FishEye/Crucible from the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

Our thanks to **Marian Ventuneac** of <http://www.ventuneac.net>, who reported [FE-3031](#) and [FE-3032](#). We [fully support the reporting of vulnerabilities](#) and we appreciate it when people work with us to identify and solve the problem.

## FishEye and Crucible Security Advisory 2011-01-12

This advisory announces a number of security vulnerabilities that we have found and fixed in recent versions of

FishEye/Crucible. You need to upgrade your existing FishEye/Crucible installations to fix these vulnerabilities. Enterprise Hosted customers should request an upgrade by filing a ticket at <http://support.atlassian.com>. JIRA Studio is not vulnerable to any of the issues described in this advisory.

Atlassian is committed to improving product security. The vulnerabilities listed in this advisory have been discovered by Atlassian, unless noted otherwise. The reporter may also have requested that we do not credit them.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com/>.

#### In this advisory:

- [XSS Vulnerabilities](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Administration password logged in debug log](#)
  - [Severity](#)
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  - [Risk Mitigation](#)
  - [Fix](#)
- [Review comment search returns comments that a user has no permission to view](#)
  - [Severity](#)
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  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Anonymous global access exposes entire user list](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)

#### XSS Vulnerabilities

##### Severity

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

##### Risk Assessment

We have identified and fixed a number of cross-site scripting (XSS) vulnerabilities which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). XSS vulnerabilities potentially allow an attacker to embed their own JavaScript into a FishEye/Crucible page. You can read more about XSS attacks at [cgisecurity.com](http://cgisecurity.com), [The Web Application Security Consortium](http://The Web Application Security Consortium) and other places on the web.

##### Vulnerability

The table below describes the FishEye/Crucible versions and the specific functionality affected by the XSS vulnerabilities.

| FishEye/Crucible Feature            | Affected FishEye/Crucible Versions | Issue Tracking            |
|-------------------------------------|------------------------------------|---------------------------|
| Crucible review – linked JIRA issue | Crucible 2.0.1 – 2.3.7             | <a href="#">CRUC-5307</a> |
| Crucible email reviews              | Crucible 2.2.0 – 2.4.0             | <a href="#">CRUC-5308</a> |



|   |                                |                           |
|---|--------------------------------|---------------------------|
| Crucible review reload                  | Crucible 2.2.0 – 2.4.2         | <a href="#">CRUC-5309</a> |
| Crucible edit review details screen     | Crucible 2.2.0 – 2.3.7         | <a href="#">CRUC-5345</a> |
| FishEye repository configuration        | FishEye 2.4.0                  | <a href="#">CRUC-5310</a> |
| FishEye charts                          | FishEye 2.2.0 - 2.4.0          | <a href="#">CRUC-5311</a> |
| FishEye/Crucible code macro             | FishEye/Crucible 2.2.0 – 2.4.0 | <a href="#">CRUC-5312</a> |
| FishEye/Crucible changeset page heading | FishEye/Crucible 2.3.2 – 2.4.0 | <a href="#">CRUC-5313</a> |

### **Risk Mitigation**

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable [public signup](#) to your instance until you have applied the upgrade. For even tighter control, you could restrict access to trusted [groups](#).

### **Fix**

FishEye/Crucible 2.4.4 fixes all of these issues. View the issues linked above for information on earlier fix versions for each issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download the latest version of FishEye/Crucible from the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix these vulnerabilities. You must upgrade your FishEye/Crucible installation.

### **Administration password logged in debug log**

### **Severity**

Atlassian rates the severity level of these vulnerabilities as **high**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

### **Risk Assessment**

We have identified and fixed a vulnerability in the FishEye/Crucible logging which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability allows administrator passwords to be logged in clear text when debug logging is enabled.

### **Vulnerability**

This vulnerability affects FishEye and Crucible 2.2.0 to 2.4.0.

### **Risk Mitigation**

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable access logging. See [Enabling Access Logging in FishEye](#) and [Enabling Access Logging in Crucible](#). You can also apply file restrictions to your log files. Note, this issue only occurs when DEBUG logging is turned on (off by default) when an administrator logs in.

### **Fix**

FishEye/Crucible 2.4.2 and later fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download the latest version of FishEye/Crucible from the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

### **Review comment search returns comments that a user has no permission to view**

### **Severity**



Atlassian rates the severity level of these vulnerabilities as **medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

#### **Risk Assessment**

We have identified and fixed a vulnerability in the Crucible review comment search which may affect Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability allows review comments to be displayed for projects that are not publicly viewable.

#### **Vulnerability**

This vulnerability affects Crucible 2.2.0 to 2.4.3.

#### **Risk Mitigation**

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

#### **Fix**

FishEye/Crucible 2.2.5, 2.3.8 and 2.4.4 fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download these versions of FishEye/Crucible via the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

#### **Anonymous global access exposes entire user list**

#### **Severity**

Atlassian rates the severity level of these vulnerabilities as **medium**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

#### **Risk Assessment**

We have identified and fixed a vulnerability in the FishEye/Crucible anonymous global access which may affect FishEye/Crucible instances, including publicly available instances (that is, internet-facing servers). This vulnerability exposes the user list (usernames and emails) of a FishEye/Crucible instance for access when anonymous global access is enabled.

#### **Vulnerability**

This vulnerability affects FishEye and Crucible 2.2.0 to 2.4.3.

#### **Risk Mitigation**

We recommend that you upgrade your FishEye/Crucible installation to fix these vulnerabilities.

Alternatively, if you are not in a position to upgrade immediately and you judge it necessary, you can disable global anonymous access. See [Configuring Anonymous Access](#).

#### **Fix**

FishEye/Crucible 2.2.6, 2.3.8 and 2.4.4 fix this issue. For a full description of this release, see the [FishEye 2.4 changelog](#) and [Crucible 2.4 Changelog](#). You can download these versions of FishEye/Crucible via the download centre ([FishEye download centre](#), [Crucible download centre](#)).

There are no patches available to fix this vulnerability. You must upgrade your FishEye/Crucible installation.

### **Crucible Security Advisory 2010-06-16**



The 2.3.3 release of Crucible contains some security related fixes, which are part of the shared FishEye architecture. The following information for FishEye applies equally to Crucible.

The [Crucible Download Centre](#) has the updates for Crucible.

**In this advisory:**

- [Remote Code Exploit Vulnerability](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Download Patches for Earlier FishEye / Crucible Versions](#)
  - [Patch for FishEye / Crucible 2.3.2](#)
  - [Patch for FishEye / Crucible 2.2.3](#)

## Remote Code Exploit Vulnerability

### Severity

Atlassian rates this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

### Risk Assessment

We have identified and fixed a remote code exploit vulnerability which affects FishEye and Crucible instances.

### Vulnerability

This vulnerability allows a motivated attacker to call remote code on the host server.

All versions of FishEye/Crucible up to version 2.3.2 are affected by this vulnerability.

| Affected FishEye Versions               | Fix Availability   | More Details   | Severity |
|---|--|--|----------|
| All versions up to and including 2.3.2. | 2.3.3 update, also available as patches for 2.3.2 and 2.2.3. | This vulnerability allows a motivated attacker to call remote code on the host server. | Critical |

This vulnerability has been discovered in XWork by OpenSymphony, a command pattern framework which is used by FishEye and Crucible.

### About the XWork Framework:

- See the [OpenSymphony XWork page](#) for more information about XWork.

### Risk Mitigation

We strongly recommend either upgrading or patching your FishEye/Crucible installation to fix this vulnerability. Please see the 'Fix' section below.

### Fix

These issues have been fixed in FishEye 2.3.3 (see the [changelog](#)), which you can download from the [download centre](#).


It has also been fixed in Crucible 2.3.3 (see the [changelog](#)), which you can download from the [download centre](#).

Later versions will include protection from this vulnerability.

This fix is also provided as a patch for FishEye/Crucible 2.3.2 and 2.2.3, which you can download from [links on this page](#). Customers on earlier point versions of FishEye/Crucible will have to upgrade to version 2.3.2 or 2.2.3 before applying the patch. Atlassian recommends you upgrade to FishEye/Crucible 2.3.3.

### Download Patches for Earlier FishEye / Crucible Versions



 These patch releases contain security fixes, which apply to the shared FishEye architecture that is the basis of both FishEye and Crucible.

Please note that these patches are for specific point versions of FishEye (2.3.2 and 2.2.3). If you are running an earlier version than these, you will need to upgrade to a version specifically addressed by one of these patches. Atlassian strongly recommends that you upgrade to [FishEye 2.3.3](#) / [Crucible 2.3.3](#) or later.

MD5 checksums are provided to allow verification of the downloaded files.

#### **Patch for FishEye / Crucible 2.3.2**


| File  | FishEye / Crucible Version | Release Date    | MD5 Checksum                     |
|---|----------------------------|-----------------|----------------------------------|
| <a href="#">fisheye-crucible-2.3.2-patch1.zip</a> | 2.3.2                      | 16th June, 2010 | 6fe98db821a6d26f26907688af2ccd84 |

#### **Patch for FishEye / Crucible 2.2.3**

| File  | FishEye / Crucible Version | Release Date    | MD5 Checksum                     |
|---|----------------------------|-----------------|----------------------------------|
| <a href="#">fisheye-crucible-2.2.3-patch1.zip</a> | 2.2.3                      | 16th June, 2010 | 6fe98db821a6d26f26907688af2ccd84 |

Our thanks to **Meder Kydyraliev** of the **Google Security Team** who discovered this vulnerability. Atlassian [fully supports the reporting of vulnerabilities](#) and appreciates it when people work with Atlassian to identify and solve the problem.

## **Crucible Security Advisory 2010-05-04**

 The 2.2.3 release of Crucible contains some security related fixes, which are part of the shared FishEye architecture. The following information for FishEye applies equally to Crucible.

The [Crucible Download Centre](#) has the updates for Crucible.

#### **In this advisory:**

- [Admin Escalation Vulnerability](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [XSS Vulnerabilities in FishEye](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Prevention of Brute Force Attacks](#)
  - [Severity](#)
  - [Risk Assessment](#)
  - [Vulnerability](#)
  - [Risk Mitigation](#)
  - [Fix](#)
- [Changed Behaviour in FishEye](#)
- [Download Patches for Earlier FishEye / Crucible Versions](#)
  - [Patch for FishEye / Crucible 2.1.4](#)
  - [Patch for FishEye / Crucible 2.0.6](#)
  - [Patch for FishEye 1.6.6](#)

- [Patch for Crucible 1.6.6](#)

### Admin Escalation Vulnerability

#### Severity

Atlassian rates this vulnerability as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

#### Risk Assessment

We have identified and fixed an admin escalation vulnerability, which affects FishEye instances. This vulnerability has security implications and is especially important for anyone running publicly accessible instances of FishEye.

#### Vulnerability


This vulnerability allows a motivated attacker to perform admin actions.

All versions of FishEye from version 1.6.0-beta2 (including 1.6.0) through to 2.2.1 are affected by these admin escalation vulnerabilities.

| Affected FishEye Versions              | Fix Availability  | More Details   | Severity |
|--|---|--|----------|
| All versions up to and including 2.2.1 | 2.2.3 update, also available as patches for certain versions, listed on <a href="#">this page</a> . | This vulnerability allows a motivated attacker to perform admin actions. | Critical |

#### Risk Mitigation

We strongly recommend either upgrading or patching your FishEye installation to fix this vulnerability. Please see the 'Fix' section below.

 Note: If you are an Atlassian JIRA Studio customer, we have assessed that your system is secure and implemented additional protections for it.

#### Fix

These issues have been fixed in FishEye 2.2.3 (see the [changelog](#)), which you can download from the [download centre](#). Later versions will include protection from this vulnerability.

This fix is also provided as a patch for FishEye 2.1.4, 2.0.6 and 1.6.6, which you can download from [this page](#). Customers on earlier point versions of FishEye will have to upgrade to version 2.1.4, 2.0.6 or 1.6.6 before applying the patch. We recommend you upgrade to FishEye 2.2.3.

### XSS Vulnerabilities in FishEye

#### Severity

Atlassian rates these vulnerabilities as **critical**, according to the scale published in [Severity Levels for Security Issues](#). The scale allows us to rank a vulnerability as critical, high, moderate or low.

#### Risk Assessment

We have identified and fixed several cross-site scripting (XSS) vulnerabilities in FishEye, which may affect FishEye instances. These vulnerabilities have security implications and are especially important for anyone running publicly accessible instances of FishEye.

- The attacker might take advantage of the vulnerability to steal other users' session cookies or other credentials, by sending the credentials back to the attacker's own web server.
- The attacker's text and script might be displayed to other people viewing a FishEye page. This is potentially damaging to your company's reputation.

You can read more about XSS attacks at [cgisecurity](#), [CERT](#) and other places on the web.

### **Vulnerability**

All versions of FishEye are affected by these XSS vulnerabilities.

| Affected FishEye Versions              | Fix Availability | More Details  | Severity |
|--|------------------|---|----------|
| All versions up to and including 2.2.1 | 2.2.3 only       | An attacker could take advantage of this vulnerability to steal other users' session cookies or other credentials, or the attacker's text and script might be displayed to other people viewing a FishEye page. | Critical |

### **Risk Mitigation**

We strongly recommend upgrading your FishEye installation to fix these vulnerabilities. Please see the 'Fix' section below.

### **Fix**

These issues have been fixed in FishEye 2.2.3 (see the [changelog](#)), which you can download from the [download centre](#).

### **Prevention of Brute Force Attacks**

### **Severity**

Atlassian rates this vulnerability as **moderate**, according to the scale published in [Severity Levels for Security Issues](#).

### **Risk Assessment**

We have improved the security of the following areas in FishEye:

- Prevention of brute force attacks by requiring users to solve a [CAPTCHA](#) test after a maximum number of repeated login attempts.

### **Vulnerability**

We have identified and fixed a problem where FishEye allows an unlimited number of repeated login attempts, potentially opening FishEye to a brute force attack. Details of this improvement are summarised below.

| Affected FishEye Versions              | Fix Availability | More Details   | Severity |
|--|------------------|--|----------|
| All versions up to and including 2.2.1 | 2.2.3 only       | FishEye allows an unlimited number of login attempts. This makes FishEye vulnerable to a brute force attack. | Moderate |

### Risk Mitigation

We recommend that you upgrade your FishEye installation to fix these vulnerabilities. Please see the 'fix' section [below](#).

You can also prevent brute force attacks by following our guidelines on [using Fail2Ban to limit login attempts](#).

### Fix

This issue has been fixed in FishEye 2.2.3 (see the [changelog](#)). Later versions will include protection from this vulnerability. You can download FishEye 2.2.3 from the [download centre](#).

### Changed Behaviour in FishEye

In order to fix these issues, we have changed FishEye's behaviour as follows:

- After three consecutive failed login attempts, FishEye will display a **CAPTCHA** form asking the user to enter a given word when attempting to log in again. This will prevent brute force attacks via the login screen. The number of failed attempts needed to trigger the **CAPTCHA** testing is configurable. For more information, see the documentation for [Brute force login protection](#).



In addition, after three consecutive failed login attempts via the FishEye remote API, an error message will be returned. Human intervention will then be required to reset that login account, i.e. solve the **CAPTCHA** test via the login screen.

### Download Patches for Earlier FishEye / Crucible Versions



These patch releases contain security fixes, which apply to the shared FishEye architecture that is the basis of both FishEye and Crucible.

These patches fix the Admin Escalation vulnerability only. Please note that these patches are for specific older point versions of FishEye (2.1.4, 2.0.6 or 1.6.6). If you are running an earlier version than these, you will need to upgrade to a version specifically addressed by one of these patches. To update a more recent version of the product (2.1.5 through 2.2.1), please upgrade to FishEye 2.2.3 or later. Atlassian strongly recommends that you [upgrade to FishEye 2.2.3](#) or later.

**MD5 checksums** are provided to allow verification of the downloaded files.

#### Patch for FishEye / Crucible 2.1.4

| File  | FishEye / Crucible Version | Release Date  | MD5 Checksum                     |
|---|----------------------------|---------------|----------------------------------|
| <a href="#">fisheye-crucible-2.1.4-patch1.zip</a> | 2.1.4                      | 4th May, 2010 | 6062fa2e1ad93729527357fb97b0d2ea |

#### Patch for FishEye / Crucible 2.0.6

| File  | FishEye / Crucible Version | Release Date  | MD5 Checksum                     |
|---|----------------------------|---------------|----------------------------------|
| <a href="#">fisheye-crucible-2.0.6-patch1.zip</a> | 2.0.6                      | 4th May, 2010 | 6aae75e2a5308121887bf9532473cf75 |

#### Patch for FishEye 1.6.6

| File                                     | FishEye Version | Release Date  | MD5 Checksum                     |
|--|-----------------|---------------|----------------------------------|
| <a href="#">fisheye-1.6.6-patch1.zip</a> | 1.6.6           | 4th May, 2010 | 210ef3358aff83861733f8f22d331d7e |

**Patch for Crucible 1.6.6**

| File                                      | Crucible Version | Release Date  | MD5 Checksum                     |
|---|------------------|---------------|----------------------------------|
| <a href="#">crucible-1.6.6-patch1.zip</a> | 1.6.6            | 4th May, 2010 | 48e8e8ada0ddb3fc8671459051df1120 |

 To acquire all of the fixes on this page, upgrade to [FishEye 2.2.3](#), which you can download from the [download centre](#).

**Fisheye and Crucible Security Advisory 2014-02-26**

This advisory details a critical security vulnerability that we have found in Crucible and fixed in recent versions of Crucible.

- **Customers who have downloaded and installed Crucible** should upgrade their existing Crucible installations to fix this vulnerability.
- **Atlassian OnDemand customers** are not affected because OnDemand does not include Crucible.

The vulnerability affects all versions of Crucible up to and including 3.1.5 and 2.10.7.

Atlassian is committed to improving product security. We [fully support the reporting of vulnerabilities](#) and we appreciate it when people work with us to identify and solve the problem.

If you have questions or concerns regarding this advisory, please raise a support request at <http://support.atlassian.com>.

**User privilege escalation****Severity**

Atlassian rates the severity level of this vulnerability as **critical**, according to the scale published in [Severity Levels of Security Issues](#). The scale allows us to rank the severity as critical, high, moderate or low.

This is an independent assessment and you should evaluate its applicability to your own IT environment.

**Description**

We have identified and fixed a vulnerability in Crucible which allowed unauthenticated users to commit actions on behalf of any other authorised user. In order to exploit this vulnerability, an attacker requires access to your Crucible web interface.

A Crucible server is only vulnerable if it has been configured to be a part of an Application link with [Trusted Applications authentication](#). Unless you chose OAuth authentication when configuring previously created links, Trusted Applications was used by default.

The vulnerability affects all supported versions of Crucible up to and including 3.1.5 and 2.10.7. It has been fixed in 3.2.0, 3.1.6 and 2.10.8. The issue is tracked in [CRUC-6662 - Privilege escalation](#) CLOSED.

**Risk Mitigation**

If you are unable to upgrade your Crucible server you can do the following as a **temporary workaround**:

- Block access to your Crucible server web interface from untrusted networks, such as the Internet.
- Remove any Application links that use Trusted Applications authentication and re-create them using OAuth.

**Fix**

This vulnerability can be fixed by upgrading Crucible. If you have any questions, please raise a support request at <http://support.atlassian.com>. We recommend upgrading.

The [Security Patch Policy](#) describes when and how we release security patches and security upgrades for our products. Only security upgrades are released for Crucible. Patches are not released for Crucible.

**Upgrading Crucible**



Upgrade to Crucible 3.2.0, 3.1.6, 2.10.8 or a later version, which fixes this vulnerability. For a full description of these releases, see the [Crucible Release Notes](#).

#### Patches

Binary patches are not available for this advisory. You need to either install one of the patch releases or apply recommended temporary workarounds.

## Crucible FAQ

| Crucible FAQ  |
|---|
| <p>Answers to frequently asked questions about configuring and using Crucible.</p> <ul style="list-style-type: none"> <li>• <a href="#">Crucible Resources</a></li> <li>• <a href="#">General FAQs</a> <ul style="list-style-type: none"> <li>• <a href="#">Can I deploy Crucible or FishEye as a WAR?</a></li> <li>• <a href="#">Does Crucible support SSL (HTTPS)?</a></li> <li>• <a href="#">How do I force reviews to include SVN property changes?</a></li> <li>• <a href="#">How to Automate Daily Crucible Backups</a></li> </ul> </li> <li>• <a href="#">Licensing FAQ</a> <ul style="list-style-type: none"> <li>• <a href="#">What happens if I decide to stop using FishEye with Crucible</a></li> <li>• <a href="#">Do I need a FishEye licence to run Crucible?</a></li> <li>• <a href="#">Advantages of Native Repository Access over lightSCM plugins</a></li> <li>• <a href="#">Updating your Crucible license</a></li> </ul> </li> <li>• <a href="#">Support Policies</a> <ul style="list-style-type: none"> <li>• <a href="#">Bug Fixing Policy</a></li> <li>• <a href="#">How to Report a Security Issue</a></li> <li>• <a href="#">New Features Policy</a></li> <li>• <a href="#">Patch Policy</a></li> <li>• <a href="#">Security Advisory Publishing Policy</a></li> <li>• <a href="#">Security Patch Policy</a></li> <li>• <a href="#">Severity Levels for Security Issues</a></li> </ul> </li> <li>• <a href="#">Troubleshooting</a> <ul style="list-style-type: none"> <li>• <a href="#">JIRA Integration Issues</a></li> <li>• <a href="#">Problems with very long comments and MySQL migration</a></li> </ul> </li> <li>• <a href="#">Contributing to the Crucible Documentation</a> <ul style="list-style-type: none"> <li>• <a href="#">Crucible Documentation in Other Languages</a></li> </ul> </li> </ul> |

**i** Most setup issues are likely to be related to the FishEye component of Crucible. Refer to the FishEye documentation:

- [FishEye documentation](#)
- [FishEye FAQs](#)
- [Top Evaluator Questions](#)
  - [Can Crucible add support for new repositories?](#)
  - [Can I purchase Crucible on it's own?](#)
  - [Can I trial Crucible without FishEye?](#)
  - [How can I do reviews from the file system?](#)
  - [How does Crucible help enforce compliance and auditability?](#)
  - [How do I convince my team of the benefits of code review?](#)
  - [How do I do pre-commit reviews?](#)
  - [How do I raise defects in JIRA?](#)
  - [How do I review patch diffs?](#)
  - [What user permissions and review security is available?](#)

Do you still have a question, or need help with Crucible? Please [create a support request](#).

## Crucible Resources

#### Resources for Evaluators

- [Free Trial](#)
- [Feature Tour](#)



### Resources for Administrators

- [Crucible Knowledge Base](#)
- [Crucible FAQ](#)
- [Guide to Installing an Atlassian Integrated Suite](#)
- [The big list of Atlassian gadgets](#)

### Downloadable Documentation

- [Crucible documentation in PDF, HTML or XML formats](#)

### Plugins

- [Crucible Developer Documentation](#)
- [Add-ons for Crucible](#)

### Support

- [Atlassian Support](#)
- [Support Policies](#)

### Forums

- [Crucible Forum](#)
- [Crucible Developers Forum](#)

### Mailing Lists

- Visit <http://my.atlassian.com> to sign up for mailing lists relating to Atlassian products, such as technical alerts, product announcements and developer updates.

### Feature Requests

- [Issue Tracker and Feature Requests for Crucible](#)

## General FAQs

| Crucible General FAQs  |
|--|
| <ul style="list-style-type: none"><li>• <a href="#">Can I deploy Crucible or FishEye as a WAR?</a> — Unfortunately FishEye and Crucible cannot be deployed as a WAR.</li><li>• <a href="#">Does Crucible support SSL (HTTPS)?</a></li><li>• <a href="#">How do I force reviews to include SVN property changes?</a></li><li>• <a href="#">How to Automate Daily Crucible Backups</a> — Configuring Crucible backups is easy.</li></ul> |

### Can I deploy Crucible or FishEye as a WAR?

Unfortunately FishEye and Crucible cannot be deployed as a WAR. FishEye has some special needs for performance reasons that are not easily supported on third-party containers. Whilst this is an often requested feature, there are no immediate plans to provide a WAR version of FishEye or FishEye+Crucible. However the upcoming separate edition of Crucible (i.e. without FishEye) may at some stage be available as a WAR.

### Does Crucible support SSL (HTTPS)?

Crucible does not have any built-in support for running over SSL via the HTTPS protocol. However, it is possible to setup a proxy web server to forward requests to Crucible. Please see the page on [Integrating with Other Web Servers](#).

### How do I force reviews to include SVN property changes?

Subversion (SVN) allows you to store arbitrary name/value pairs, called 'SVN properties', in association with files and directories. You can use these properties to store metadata, and Subversion also uses them, for example to store where code is branched from.

These name/value pairs can only be changed as part of a changeset or commit in Subversion. As such, you will have changesets with purely changes to SVN properties, or changesets with a mix of textual changes and changes to SVN properties.

Crucible 2.6 introduced [review creation without metadata](#) to prevent SVN properties from being included in reviews. This functionality was on by default.

For Crucible 3.0 and later, this functionality is disabled by default, and affects the following actions:

- Creating a review — The **Create Review** link is disabled in the activity stream, dashboard and changeset page for any changeset where all the file revisions only differ by SVN properties.
- Adding content to a review — SVN property-only changesets cannot be added to the review from the 'Add Content' dialog. Changesets with a mix of SVN property changes and textual changes can be added to the review, however only the file revisions with textual changes are added. File revisions with both textual changes and SVN property changes are always added.  
Note that you can explicit add a particular file revision to a review, regardless of whether it is a textual change or metadata-only change.

The prime motivation behind metadata checking is to prevent the creation of reviews with a large number of files which have no effective content changes. Sometimes this sort of problem is seen when there is some wholesale SVN property change, for example setting the line endings on all files (`svn:eol-style`). In that respect, this is a performance setting as it avoids the creation of large reviews. The properties themselves are still stored and managed in FishEye. There is no major performance impact on including properties in reviews.

Enabling this functionality can be done by starting up Crucible with the following system property:

```
-Dcrucible.detect.metadata.revision.changes=true
```

#### Crucible 3.0+ Changes

In Crucible 3.0 and later the default value of this setting was changed from true to false. Due to the phased nature of FishEye indexing, changesets are available for review much earlier in their overall processing. In particular changesets are available for review prior to having their line count and diff information processed. In this state all changes look somewhat like metadata only changes. Reviews created in this state with metadata detection enabled will cause the changes to be excluded from the review.

## How to Automate Daily Crucible Backups

Configuring Crucible backups is easy. To set daily Crucible backups, open the administration page, click the '**Backup**' link under '**System**' on the left navigation bar, and simply follow the instructions set out on the [Backing up and restoring Crucible data](#) page.

## Licensing FAQ

### Crucible Licensing FAQ

- [What happens if I decide to stop using FishEye with Crucible](#) — Crucible can be run as an application alone, without FishEye. However, if you decide to stop using FishEye with Crucible, you will lose certain functionality and will need to make configuration changes.
- [Do I need a FishEye licence to run Crucible?](#) — FishEye and Crucible are separate products. They can be run separately, and they can also be run together.
- [Advantages of Native Repository Access over lightSCM plugins](#)
- [Updating your Crucible license](#)

### What happens if I decide to stop using FishEye with Crucible

Crucible can be run as an application alone, without FishEye. However, if you decide to stop using FishEye with Crucible, you will lose certain functionality and will need to make configuration changes.

On this page:

- [How do I run Crucible without FishEye?](#)
- [How is Crucible without FishEye different from using Crucible with FishEye?](#)
  - [Conducting Reviews](#)
  - [Viewing Repositories/Files](#)
  - [Charts](#)
- [Can I still use lightSCM plugins with Crucible?](#)


### How do I run Crucible without FishEye?

- **Have a valid Crucible license but not a FishEye license**

To run Crucible without FishEye you need to have a **valid Crucible license but not a FishEye license** or if you want to disable FishEye enter `Disabled` in the license field. Crucible standalone will actually use a "light" mode of FishEye that comes pre-bundled and does not need to be installed separately. For more information on Crucible with light FishEye, see [How is Crucible without FishEye different from using Crucible with FishEye?](#) below.

- **No need to reconnect your repositories**

Any repositories that you have currently defined in FishEye will not be visible in Crucible after removing FishEye (no more `Source` tab). The repositories however, will continue to update as usual without any intervention. You can add additional repositories as described in the [FishEye documentation](#). Note, all [repositories supported in FishEye](#) are supported in light FishEye.

 Legacy "lightSCM" plugins, like the [Crucible Subversion SCM plugin](#), will still work. However, the functionality will be limited compared to using Crucible with light FishEye. See the [Can I still use lightSCM plugins with Crucible?](#) section below for more information.

- **You need to reindex your repositories after removing a FishEye license**

When you remove a FishEye license, and operate with only a Crucible license, you need to reindex those repositories that were originally indexed under a FishEye license. You do not need to remove those repositories, you just need to run a re-index to create an index which is compatible with your new license setup.

### How is Crucible without FishEye different from using Crucible with FishEye?

The following changes in functionality will occur if you use Crucible without FishEye (i.e. use Crucible with "light" FishEye).

#### Conducting Reviews

- When using [Iterative reviews](#) in Crucible, you will not be prompted when a new version of a file is available.

#### Viewing Repositories/Files

- Files and changesets displayed in activity streams (e.g. the [dashboard activity stream](#)) will not render as links to the relevant files/changesets.
- You will not be able to see your content roots and repositories associated with projects.
- You will no longer be able to see [repository lists and browse repositories](#) using the '**Source**' tab.

#### Charts

- You will not be able to [view charts or code metrics](#).

### Can I still use lightSCM plugins with Crucible?

Legacy "lightSCM" plugins, like the [Crucible Subversion SCM plugin](#), will still work with Crucible. However, we recommend that you use the "light" FishEye implementation that is bundled with Crucible, as it supersedes the lightSCM plugins.

For more information, please read this FAQ: [Advantages of Native Repository Access over lightSCM plugins](#).

### Do I need a FishEye licence to run Crucible?

FishEye and Crucible are separate products. They can be run separately, and they can also be run together.

We recommend that you run Crucible together with FishEye. If you choose to run Crucible alone without FishEye, you will have access to your repositories via the "light" FishEye implementation bundled with Crucible. However, a number of FishEye's advanced features will not be available to you, including [pre-caching repository content](#) (for improved performance), the ability to search and browse through repositories and FishEye's activity graphs.

For more information, please read the following FAQ: [What happens if I decide to stop using FishEye with](#)

## Crucible


**Advantages of Native Repository Access over lightSCM plugins**

Prior to Crucible 2.4, running Crucible without FishEye required the use of "lightSCM" plugins (like the [Crucible Subversion SCM plugin](#)). From version 2.4, Crucible provides native repository access which supersedes Crucible's bundled lightSCM plugins. Third-party lightSCM plugins are unaffected and will continue to work with Crucible. The bundled plugins will still be available, so your existing configurations will also continue to work unchanged.

**If you are currently using any of the bundled lightSCM plugins, we recommend that you migrate to using native repository access** for the following reasons:

- Atlassian's lightSCM plugins (not lightSCM itself) are being deprecated, i.e. we will not update any of the bundled lightSCM plugins after the 2.4 release.
- It is easier for us to support and maintain a single implementation of our SCM interfaces, rather than support the standard FishEye access and the lightSCM implementations.
- Native repository access provides full support for SCMs for which there are no current lightSCM plugin implementations, including CVS and Mercurial.
- Native repository access provides additional functionality that is not available in the lightSCM plugins including:
  - Viewable commits in the activity streams (e.g. the [dashboard activity stream](#)).
  - Repositories administration via the [administration console](#).
  - Easier review creation due to the ability to search and browse the repository using the full power of FishEye. For example, browsing for a file to add to a new review (see [Adding content to the review](#)).
- Improved performance of native repository access over the lightSCM plugins. The lightSCM plugins retrieve data on demand from the underlying repository, rather than using caches and indexes like FishEye and native repository access. Hence, Crucible with native repository access, whilst requiring an initial indexing phase, will be faster than Crucible with lightSCM plugins during day-to-day operations.
- Native repository access allows for migration to a full FishEye license in future, if desired. Your repositories can simply be re-indexed for full FishEye functionality and existing reviews will then be available on the full repository.

**To change over from lightSCM plugins to native repository access:**

1. Disable your lightSCM plugins via the Crucible Administration Console ('**Plugins**' link under the 'Systems Settings' section in the left menu).
  -  Do not disable the SCM plugins for connecting to a [Confluence instance](#) or a [file system](#). Native repository access does not include functionality to connect these (nor does FishEye alone), hence you will still need to use plugins.
2. Add native repositories for any repositories that are currently connected via lightSCM plugins. See the [FishEye documentation](#).
3. If you are using Subversion or Perforce, we recommend that you set a "start" revision for the changeover, unless you need to review old code. This will eliminate the need for native repository support to index old repository activity, getting you up and running quickly.

**Updating your Crucible license**

When you upgrade or renew your Crucible license, you will receive a new license key – you'll need to update your Crucible server with the new license.

Note that you can access your current license, or obtain a new license, by going to [my.atlassian.com](http://my.atlassian.com).

**Related pages:**

- [Crucible and FishEye](#)
- [What happens if I decide to stop using FishEye with Crucible](#)

**To update your Crucible license key:**

1. Log in to Crucible [Admin area](#).
2. Click **System Info** (under 'System Settings').
3. Click **Edit License** and paste your new license key into the appropriate text box.
4. Paste your new license into this box. Obtain a new license by clicking [my.atlassian.com](http://my.atlassian.com) in the

'Information' section.

5. Click **Update**.

## Support

### Information

New licenses can be acquired from [my.atlassian.com](https://my.atlassian.com).

Your Server ID is **BMRI-3AS3-HMMD-PGXX**

### Licenses

|                  |   |
|------------------|---|
| FishEye License  | Evaluation  |
| Crucible License | <pre> AAAA9g0ODAOpeNptkE9rwzAMxe/+FladPWa7hzXgQ5eELRAnpcmgH15Uo62G1A3+E9Zvv3Yt dBs9C IT03k8PPfS7RJvDRAWnfJ7NeMZnNO96Kp64JAUG4+0Y7cGp3CdjtwNuMlpOMCQ4T0nu8acpl Kl6e xjnTAhirurH2hp0AfvjiA3siOnAGy6/R+uMvqPgDbdJ+i779eA/og 2KctP4TnA0X2CIOEIIIfdzOAiXbCy5kO/YS+KtSLXIVMLjrJ3rQu2PJ1vSZd2ahTsVqKZzGXklzz n +R1Vdzb3l+6TN7sIOD/v3wDPH51STAtAhRYkbBDq2j1NpXxLp5ws8aCIhAgBw/VAJceVTPzGB f4w g5FWvNY7c5adD+EX02co </pre> |

Update Cancel

## Support Policies

Welcome to the support policies index page. Here, you'll find information about how Atlassian Support can help you and how to get in touch with our helpful support engineers. Please choose the relevant page below to find out more.

- [Bug Fixing Policy](#)
- [How to Report a Security Issue](#)
- [New Features Policy](#)
- [Patch Policy](#)
- [Security Advisory Publishing Policy](#)
- [Security Patch Policy](#)
- [Severity Levels for Security Issues](#)

To request support from Atlassian, please raise a support issue in our online support system. To do this, visit [support.atlassian.com](https://support.atlassian.com), log in (creating an account if need be) and create an issue under Crucible. Our friendly support engineers will get right back to you with an answer.

### Bug Fixing Policy

#### Summary

- Atlassian Support will help with workarounds and bug reporting.
- Critical bugs will generally be fixed in the next maintenance release.
- Non critical bugs will be scheduled according to a variety of considerations.



#### Raising a Bug Report

Atlassian Support is eager and happy to help verify bugs — we take pride in it! Please open a support request in our [support system](#) providing as much information as possible about how to replicate the problem you are experiencing. We will replicate the bug to verify, then lodge the report for you. We'll also try to construct workarounds if they're possible.

Customers and plugin developers are also welcome to open bug reports on our issue tracking systems directly. Use <http://jira.atlassian.com> for the stand-alone products and <http://studio.atlassian.com> for JIRA Studio and Atlassian OnDemand.

When raising a new bug, you should rate the priority of a bug according to our [JIRA usage guidelines](#). Customers **should watch** a filed bug in order to receive e-mail notification when a "Fix Version" is scheduled for release.

### **How Atlassian Approaches Bug Fixing**

Maintenance (bug fix) releases come out more frequently than major releases and attempt to target the most critical bugs affecting our customers. The notation for a maintenance release is the final number in the version (ie the 1 in 3.0.1).

If a bug is critical (production application down or major malfunction causing business revenue loss or high numbers of staff unable to perform their normal functions) then it will be fixed in the next maintenance release provided that:

- The fix is technically feasible (i.e. it doesn't require a major architectural change).
- It does not impact the quality or integrity of a product.

For non-critical bugs, the developer assigned to fixing bugs prioritises the non-critical bug according to these factors:

- How many of our supported configurations are affected by the problem.
- Whether there is an effective workaround or patch.
- How difficult the issue is to fix.
- Whether many bugs in one area can be fixed at one time.

The developers responsible for bug fixing also monitor comments on existing bugs and new bugs submitted in JIRA, so you can provide feedback in this way. We give high priority consideration to [security issues](#).

When considering the priority of a non-critical bug we try to determine a 'value' score for a bug which takes into account the severity of the bug from the customer's perspective, how prevalent the bug is and whether roadmap features may render the bug obsolete. We combine this with a complexity score (i.e. how difficult the bug is). These two dimensions are used when developers self serve from the bug pile.

### **Further reading**

See [Atlassian Support Offerings](#) for more support-related information.

## **How to Report a Security Issue**


### **Finding and Reporting a Security Issue**

If you find a security issue in the product, open an issue on <https://jira.atlassian.com> in the relevant project.

- Set the **security level** of the bug to '**Reporters and Developers**'.
- Set the priority of the bug to 'Blocker'.
- Provide as much information on reproducing the bug as possible.

All communication about the security issue should be performed through JIRA, so that Atlassian can keep track of the issue and get a patch out as soon as possible.

If you cannot find the right project to file your issue in, email the details to [security@atlassian.com](mailto:security@atlassian.com).

 When reporting a security vulnerability, please keep in mind the following:

We need a technical description that allows us to assess exploitability and impact of the issue.

- Provide steps to reproduce the issue, including any URLs or code involved.
- If you are reporting a cross-site scripting (XSS), your exploit should at least pop up an alert in the browser. It is much better if the XSS exploit shows user's authentication cookie.
- For a cross-site request forgery (CSRF), use a proper CSRF case when a third party causes the logged in victim to perform an action.



- For a SQL injection, we want to see the exploit extracting database data, not just producing an error message.
- HTTP request / response captures or simply packet captures are also very useful to us.

Please refrain from sending us links to non-Atlassian web sites, or reports in PDF / DOC / EXE files. Image files are ok. Make sure the bug is exploitable by someone other than the user himself (e.g. "self-XSS").

Without this information it is not possible to assess your report and it is unlikely to be addressed.

We are not looking for the reports listing generic "best practice" issues such as:

- Specific cookies being not marked as Secure or HTTPOnly
- Presence or absence of HTTP headers (X-Frame-Options, HSTS, CSP, nosniff and so on)
- Clickjacking
- Mixed HTTP and HTTPS content
- Auto-complete enabled or disabled
- SSL-related issues

We are also not looking for reports on the following bug classes:

- Username enumeration using login or password reset features. While username enumeration can be a vulnerability in web applications, most of Atlassian products and web sites include a number of social features. As a result, usernames can be discovered by design in a number of ways.

#### **Further reading**

See [Atlassian Support Offerings](#) for more support-related information.

## **New Features Policy**

### **Summary**

- We encourage and display customer comments and votes openly in our issue tracking system, <http://jira.atlassian.com>.
- We do not publish roadmaps.
- Product Managers review our most popular voted issues on a regular basis.
- We schedule features based on a variety of factors.
- Our [Atlassian Bug Fixing Policy](#) is distinct from our Feature Request process.
- Atlassian provides consistent updates on the top 20 feature/improvement requests (in our issue tracker systems).

### **How to Track what Features are Being Implemented**

When a new feature or improvement is scheduled, the 'fix-for' version will be indicated in the JIRA issue. This happens for the upcoming release only. We maintain roadmaps for more distant releases internally, but because these roadmaps are often pre-empted by changing customer demands, we do not publish them.

### **How Atlassian Chooses What to Implement**

In every [major release](#) we *aim* to implement highly requested features, but it is not the only determining factor. Other factors include:

- **Customer contact:** We get the chance to meet customers and hear their successes and challenges at Atlassian Summit, Atlassian Unite, developer conferences, and road shows.
- **Customer interviews:** All product managers at Atlassian do customer interviews. Our interviews are not simply to capture a list of features, but to understand our customers' goals and plans.
- **Community forums:** There are large volumes of posts on [answers](#), of votes and comments on [jira.atlassian.com](http://jira.atlassian.com), and of conversations on community forums like groups on LinkedIn.
- **Customer Support:** Our support team provides clear insights into the issues that are challenging for customers, and which are generating the most calls to support
- **Atlassian Experts:** Our [Experts](#) provide insights into real-world customer deployments, especially for customers at scale.
- **Evaluator Feedback:** When someone new tries our products, we want to know what they liked and disliked and often reach out to them for more detail.
- **In product feedback:** The [JIRA Issue Collectors](#) that we embed our products for evaluators and our

- Early Access Program give us a constant pulse on how users are experiencing our product.
- **Usage data:** Are customers using the features we have developed?
- **Product strategy:** Our long-term strategic vision for the product.

### *How to Contribute to Feature Development*

#### **Influencing Atlassian's release cycle**

We encourage our customers to vote on feature requests in JIRA. The current tally of votes is available online in our issue tracking system, <http://jira.atlassian.com>. Find out if your improvement request [already exists](#). If it does, please vote for it. If you do not find it, [create a new feature or improvement request](#) online.

#### **Extending Atlassian Products**

Atlassian products have powerful and flexible extension APIs. If you would like to see a particular feature implemented, it may be possible to develop the feature as a plugin. Documentation regarding the [plugin APIs](#) is available. Advice on extending either product may be available on the user mailing-lists, or at [Atlassian Answers](#).

If you require significant customisations, you may wish to get in touch with our [partners](#). They specialise in extending Atlassian products and can do this work for you. If you are interested, please [contact us](#).

### *Further reading*

See [Atlassian Support Offerings](#) for more support-related information.

## **Patch Policy**

### *Patch Policy*

Atlassian will only provide software patches in extremely unusual circumstances. If a problem has been fixed in a newer release of the product, Atlassian will request that you upgrade your instance to fix the issue. If it is deemed necessary to provide a patch, a patch will be provided for the current release and the last maintenance release of the last major version only.

Patches are issued under the following conditions:

- The bug is critical (production application down or major malfunction causing business revenue loss or high numbers of staff unable to perform their normal functions) AND a patch is technically feasible (i.e., it doesn't require a major architectural change)  
OR
- The issue is a security issue, and falls under our [Security Patch Policy](#).

Atlassian does not provide patches for non-critical bugs.

Provided that a patch does not impact the quality or integrity of a product, Atlassian will ensure that patches supplied to customers are added to the next maintenance release. Customers [should watch](#) a filed bug in order to receive e-mail notification when a "Fix Version" is scheduled for release.

Patches are generally attached to the relevant <http://jira.atlassian.com> issue.

### *Further reading*

See [Atlassian Support Offerings](#) for more support-related information.

## **Security Advisory Publishing Policy**

### **Publication of Security Advisories**

When a [critical severity](#) security vulnerability in an Atlassian product is discovered and resolved, Atlassian will inform customers through the following mechanisms:

- We will post a security advisory in the latest documentation of the affected product at the same time as releasing a fix for the vulnerability.
- We will send a copy of all posted security advisories to the **'Technical Alerts' mailing list** for the product concerned.  
*Note:* To manage your email subscriptions and ensure you are on this list, please go to [my.atlassian.com](http://my.atlassian.com) and click 'Communications Centre' near the top right of the page.
- If the person who reported the vulnerability wants to publish an advisory through some other agency,



such as [CERT](#), we will assist in the production of that advisory and link to it from our own.

If you want to track non-critical severity security vulnerabilities, you need to monitor the issue trackers for the relevant products on <http://jira.atlassian.com>. For example, <https://jira.atlassian.com/browse/JRA> for JIRA and <https://jira.atlassian.com/browse/CONF> for Confluence. Security issues in trackers will be marked with a "security" label. All security issues will be listed in the release notes of the release where they have been fixed, similar to other bugs.

One of the ways to monitor updates to security issues is subscribing to the results of a [sample search](#) via email or RSS.

### **Further reading**

See [Atlassian Support Offerings](#) for more support-related information.

## **Security Patch Policy**

### **Product Security Patch Policy**

Atlassian makes it a priority to ensure that customers' systems cannot be compromised by exploiting vulnerabilities in Atlassian products.

### **Scope**

This page describes when and how we release security patches and security upgrades for our products. It does not describe the whole of disclosure process that we follow. This policy excludes OnDemand and Bitbucket, since these services are always patched by Atlassian without additional notifications.

### **Critical vulnerabilities**

When a **Critical** security vulnerability is discovered by Atlassian or reported by a third party, Atlassian will do all of the following:

- Issue a new, fixed release for the current version of the affected product as soon as possible, usually in a few days.
- Issue a binary patch for the current release.
- Issue a binary patch for the latest maintenance release of the previous version of the product.
- Patches for older versions or releases normally will not be issued.

Patches will be attached to the relevant JIRA issue. You can use these patches as a "stop-gap" measure until you upgrade your installation in order to fully fix the vulnerability.

### **Non-critical vulnerabilities**

When a security issue of a **High, Medium or Low** severity is discovered, Atlassian will do all of the following:

- Include the fix into the next scheduled release, both for the current and previous maintenance versions.
- Where practical, provide new versions of plugins or other components of the product that can be upgraded independently.

You should upgrade your installation in order to fix the vulnerability.

### **Other information**

Severity level of vulnerabilities is calculated based on [Severity Levels for Security Issues](#).

Visit our general [Atlassian Patch Policy](#) as well.

### **Examples**

**Example 1:** A critical severity vulnerability is found in a (hypothetical current release) JIRA 5.3.2. The last bugfix release in 5.2.x branch was 5.2.3. In this case, a patch will be created for 5.3.2 and 5.2.3. In addition, new bugfix releases, 5.3.3 and 5.2.4, which are free from this vulnerability, will be created in a few days.

**Example 2:** A high or medium severity vulnerability is found in the same release as in the previous example. The fix will be included into the currently scheduled releases 5.3.3 and 5.2.4. Release schedule will not be brought forward and no patches will be issued. If the vulnerability is in a plugin module, then a plugin upgrade package may still be supplied.

### Further reading

See [Atlassian Support Offerings](#) for more support-related information.

## Severity Levels for Security Issues

### Severity Levels

Atlassian security advisories include a severity level. This severity level is based on our self-calculated CVSS score for each specific vulnerability. CVSS is an industry standard vulnerability metric. You can learn more about CVSS at [FIRST.org](https://first.org) web site.

CVSS scores are mapped into the following severity ratings:

- Critical
- High
- Medium
- Low

An approximate mapping guideline is as follows:

| CVSS score range | Severity in advisory |
|------------------|----------------------|
| 0 – 2.9          | Low                  |
| 3 – 5.9          | Medium               |
| 6.0 – 7.9        | High                 |
| 8.0 – 10.0       | Critical             |

Below is a summary of the factors which illustrate types of vulnerabilities usually resulting in a specific severity level. Please keep in mind that this rating does not take into account details of your installation.

#### Severity Level: Critical

Vulnerabilities that score in the critical range usually have most of the following characteristics:

- Exploitation of the vulnerability results in root-level compromise of servers or infrastructure devices.
- The information required in order to exploit the vulnerability, such as example code, is widely available to attackers.
- Exploitation is usually straightforward, in the sense that the attacker does not need any special authentication credentials or knowledge about individual victims, and does not need to persuade a target user, for example via social engineering, into performing any special functions.

For critical vulnerabilities, is advised that you patch or upgrade as soon as possible, unless you have other mitigating measures in place. For example, if your installation is not accessible from the Internet, this may be a mitigating factor.

#### Severity Level: High

Vulnerabilities that score in the high range usually have some of the following characteristics:

- The vulnerability is difficult to exploit.
- Exploitation does not result in elevated privileges.
- Exploitation does not result in a significant data loss.

#### Severity Level: Medium

Vulnerabilities that score in the medium range usually have some of the following characteristics:

- Denial of service vulnerabilities that are difficult to set up.
- Exploits that require an attacker to reside on the same local network as the victim.
- Vulnerabilities that affect only nonstandard configurations or obscure applications.
- Vulnerabilities that require the attacker to manipulate individual victims via social engineering tactics.
- Vulnerabilities where exploitation provides only very limited access.

#### Severity Level: Low

Vulnerabilities in the low range typically have very little impact on an organisation's business. Exploitation of such vulnerabilities usually requires local or physical system access.

#### Further reading

See [Atlassian Support Offerings](#) for more support-related information.

## Troubleshooting

### Crucible Troubleshooting

- [JIRA Integration Issues](#)
- [Problems with very long comments and MySQL migration](#) — Affects Version

#### Crucible Troubleshooting

The most common cause of FishEye/Crucible issues is an incorrect [symbolic setup](#) (trunk/branch/tag) for Subversion repositories. If you are using Subversion and your initial index is taking forever, double-check that your symbolic setup matches your repository.

FishEye runs with the default Java heap of 64 megabytes. This is sometimes problematic for FishEye, especially for Subversion repositories during the initial scan. You can give FishEye's JVM more memory by setting the `FISHEYE_OPTS` [environment variable](#).

Starting Crucible with the [command line options](#) `--debug --debug-perf` will print a lot of information to Crucible's logs. This can give you an insight into what is happening and possibly where you are stuck. Attach these logs along with your `config.xml` to an Atlassian support ticket, to speed up your [support request](#).

### JIRA Integration Issues

Users are mapped to their own accounts when using [Trusted Applications](#).

If you (or the general account used for JIRA access, if not using Trusted Applications) do not have the permissions to carry out the JIRA actions linked from Crucible, an error will occur. Depending on the error returned from JIRA, Crucible may not display the error correctly or display it at all, simply reporting that "An error has occurred". To investigate what the error was, you can access the Crucible debug log, named `fisheye-debug.log.YYYY-MM-DD` under the `dist.inst/var/log` folder of your Crucible installation. In the debug log, look for the date and time when your error took place. Here, you will be able to follow the links and see what error the JIRA instance was producing by clicking through to JIRA.

If you are using JIRA 4.0 you will not be able to create subtasks in versions of Crucible prior to 2.0.5. If you are affected by this bug, please upgrade to at least 2.0.6 (2.0.5 is affected by another bug [CRUC-2471](#)).

### Problems with very long comments and MySQL migration

#### Affects Version


This issue was introduced in Crucible 2.0 and fixed in Crucible 2.1.

#### Issue Symptoms

There is a known issue with Crucible 2.0.x and very long comments when migrating your database to MySQL. In some circumstances, this might result in truncation of very long comments, causing data loss.

Depending on your MySQL configuration, you may see an error message like this while migrating to MySQL, causing the migration to fail:

```
2009-07-16 16:56:12,390 ERROR [ThreadPool1] fisheye.app
com.cenqua.crucible.actions.admin.database.DBEditHelper-doGet -
Database migration failed:
java.sql.BatchUpdateException: Data truncation: Data too long for column
'cru_message' at row 1
java.sql.BatchUpdateException: Data truncation: Data too long for column
'cru_message' at row 1
```

 You may not see the message if you are running MySQL with default settings.

For more information, see the [JIRA issue](#).

### Workaround

If your data contains very long comments or review descriptions (longer than 21,845 multibyte unicode characters), consider avoiding use of MySQL until you can upgrade the product. Alternatively, use PostgreSQL or the default (built-in) HSQLDB database.

This issue is now resolved. This issue was introduced in Crucible 2.0 and fixed in Crucible 2.1.

### Requesting Support

If you require assistance in resolving the problem, please [raise a support request](#) under the Crucible project.

## Contributing to the Crucible Documentation

Would you like to share your Crucible hints, tips and techniques with us and with other Crucible users? We welcome your contributions.

### On this page:

- [Contributing Documentation in Other Languages](#)
- [Updating the Documentation Itself](#)
  - [Getting Permission to Update the Documentation](#)
  - [Our Style Guide](#)
  - [How we Manage Community Updates](#)

### Contributing Documentation in Other Languages

Have you written a guide to Crucible in a language other than English, or translated one of our guides? Let us know, and we will link to your guide from our documentation. [More....](#)

### Updating the Documentation Itself

Have you found a mistake in the documentation, or do you have a small addition that would be so easy to add yourself rather than asking us to do it? You can update the documentation page directly

### Getting Permission to Update the Documentation

Please submit the [Atlassian Contributor License Agreement](#).

### Our Style Guide

Please read our short [guidelines for authors](#).

### How we Manage Community Updates

Here is a quick guide to how we manage community contributions to our documentation and the copyright that applies to the documentation:

- **Monitoring by technical writers.** The Atlassian technical writers monitor the updates to the documentation spaces, using RSS feeds and watching the spaces. If someone makes an update that needs some attention from us, we will make the necessary changes.
- **Wiki permissions.** We use wiki permissions to determine who can edit the documentation spaces. We ask people to sign the [Atlassian Contributor License Agreement](#) (ACLA) and submit it to us. That allows us to verify that the applicant is a real person. Then we give them permission to update the documentation.
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### RELATED TOPICS

[Author Guidelines](#)

[Atlassian Contributor License Agreement](#)

## Crucible Documentation in Other Languages

Below are some links to Crucible documentation written in other languages. In some cases, the documentation may be a translation of the English documentation. In other cases, the documentation is an alternative guide written from scratch in another language. This page presents an opportunity for customers and community authors to share documentation that they have written in other languages.



### Please be aware that these are external guides.

Most of the links point to external sites, and some of the information is relevant to a specific release of Crucible. Atlassian provides these links because the information is useful and relevant at the time it was written. Please check carefully whether the information is still relevant when you read it, and whether it is relevant to your version of Crucible. The information in the linked guides has not been tested or reviewed by Atlassian.

### On this page:

- [No guides yet](#)

| None   |
|--|
| No guides yet  |
| We do not yet have any guides to link here. Be the first to suggest one! |

### Adding Your Own Guide to this Page

Have you written a guide for Crucible in another language? Add a comment to this page, linking to your guide. We will include it if the content fits the requirements of this page.

### Giving Feedback about One of the Guides

If you have feedback on one of the guides listed above, please give the feedback to the author of the linked guide.

If you want to let us know how useful (or otherwise) one of these guides is, please add a comment to this page.

### Other Sources of Information

[Crucible documentation](#)

[Atlassian website](#)

[Atlassian blog](#)

[Crucible plugins](#)

## Glossary

Code review terminology can be confusing as there are many different words for the concepts, roles and process. Crucible has adopted the following terms (click for definitions):

[approve](#)

[authors in Crucible](#)

[code review](#)

[comment](#)

[creator](#)

[defect](#)

[moderator](#)

[participant](#)

[permission scheme](#)

[permissions in Crucible](#)

[projects in Crucible](#)

[review duration](#)

[reviewer](#)

[role](#)

[state](#)

[statement of objective](#)

[users in Crucible](#)

## approve

Issuing a review to the [reviewers](#) is known as *approving* the review.

## authors in Crucible

The *author* is the person primarily responsible for acting on the outcomes of the review. In the vast majority of cases the author will be the person who made the code change under review.

Note: to map your repository username to your FishEye/Crucible username, see [Changing your User Profile](#).

## code review

Without prejudice to 'code inspection', 'peer review' or a myriad of other terms, Crucible uses the phrase *code review* for simplicity.

See [Getting Started](#).

## comment

A *comment* is a short textual note that is linked to a review, revision/diff, source line, or to another comment.

See [Adding comments](#).

## creator

The *creator* is the person who [creates the review](#). In most cases this person will also act as [moderator](#).

## defect

A *defect* is a comment flagged as something that requires addressing and includes optional defect classifications.

See [Flagging Defects](#) and [Customising the defect classifications](#).

## moderator

The *moderator* is the person responsible for [creating](#) the review, [approving](#) the review, determining when reviewing is finished, [summarising](#) the outcomes and [closing](#) the review. By default, the moderator is the [creator](#). See also [author](#), the person whose changes to the code are to be reviewed.

## participant

Crucible uses the terms [creator](#), [author](#), [moderator](#), and [reviewer](#) to describe the *roles* of review participants.

## permission scheme

A *permission scheme* assigns particular [permissions](#) to any or all of the following:

- Particular [Users](#).
- Particular [Groups](#).
- All logged-in users.

- [Anonymous Users](#)
- People in particular [Review Roles](#), such as:
  - [Author](#)
  - [reviewer](#)
  - [creator](#)
  - [moderator](#)

The scheme's permissions will apply to all reviews belonging to the [project\(s\)](#) with which the scheme is associated.

You can create as many permission schemes as you wish. Each permission scheme can be associated with many projects or just one project, allowing you to tailor appropriate permissions for individual projects as required.

See [Creating a permission scheme](#).

## permissions in Crucible

A *permission* is the ability to perform a particular action in Crucible, e.g. 'Create Review'. Permissions are assigned to particular users, groups or [review roles](#) by means of [permission schemes](#).

The following permissions are available:

| Permission                 | Description  | Default Assignees  |
|----------------------------|--|--|
| <b>Abandon</b>             | Ability to abandon (i.e. cancel) a review.   | <a href="#">Creator</a><br><a href="#">Author</a> <a href="#">Moderator</a>                                |
| <b>Approve</b>             | Ability to approve a review (i.e. issue it to the reviewers).                                      | <a href="#">Creator</a><br><a href="#">Author</a> <a href="#">Moderator</a>                                |
| <b>Close</b>               | Ability to close a review once it has been summarised.   | <a href="#">Creator</a><br><a href="#">Author</a><br><a href="#">Reviewer</a><br><a href="#">Moderator</a> |
| <b>Comment</b>             | Ability to add or remove a comment to or from a review.  | <a href="#">Creator</a><br><a href="#">Author</a><br><a href="#">Reviewer</a><br><a href="#">Moderator</a> |
| <b>Complete</b>            | Ability of a reviewer to change their individual review status to Complete.                        | <a href="#">Reviewer</a>   |
| <b>Create</b>              | Ability to create a review.  | All logged-in users  |
| <b>Delete</b>              | Ability to delete a review.  | <a href="#">Creator</a><br><a href="#">Author</a> <a href="#">Moderator</a>                                |
| <b>Edit Review Details</b> | Ability to edit a review's details and change the <a href="#">set of revisions</a> being reviewed. | <a href="#">Creator</a><br><a href="#">Author</a><br><a href="#">Reviewer</a><br><a href="#">Moderator</a> |
| <b>Re-Open</b>             | Ability to re-open a closed or abandoned review.   | <a href="#">Creator</a><br><a href="#">Author</a><br><a href="#">Reviewer</a><br><a href="#">Moderator</a> |
| <b>Recover</b>             | Ability to resurrect an abandoned (i.e. cancelled) review.   | <a href="#">Creator</a><br><a href="#">Author</a><br><a href="#">Reviewer</a><br><a href="#">Moderator</a> |



|                   |   |  |
|-------------------|---|--|
| <b>Reject</b>     | Ability to reject a review submitted for approval (i.e. prevent it from being issued to reviewers).           | <a href="#">Creator</a><br><a href="#">Author</a> <a href="#">Moderator</a>  |
| <b>Submit</b>     | Ability to submit a review for approval (i.e. request that the review be issued to the reviewers).            | <a href="#">Creator</a><br><a href="#">Author</a> <a href="#">Moderator</a>  |
| <b>Summarise</b>  | Ability to summarise a review. (Normally this would be done after all reviewers have completed their review.) |  |
| <b>Uncomplete</b> | Ability of a reviewer to change their individual review status from Complete to Uncomplete.                   | <a href="#">Reviewer</a>   |
| <b>View</b>       | Ability to view a review. (People without this permission will not know that the review exists.)              | Anonymous users<br>All logged-in users<br><a href="#">Creator</a><br><a href="#">Author</a><br><a href="#">Reviewer</a><br><a href="#">Moderator</a> |

## projects in Crucible

A Crucible *project* provides a way to group and manage related [reviews](#) – typically reviews that are all involved with the same software project. A Crucible project allows you to

- define default [moderators](#), [authors](#) and [reviewers](#) for the reviews in that project.
- define which people are eligible to be [reviewers](#) for the reviews in that project.
- use [permission schemes](#) to restrict who can perform particular actions (e.g. 'Create Review') in that project.

Every Crucible review belongs to a project. Each project has a *name* (e.g. ACME Development) and a *key* (e.g. ACME). The project key becomes the first part of that project's *review keys*, e.g. ACME-101, ACME-102, etc:

By default, Crucible contains one project. This default project has the key 'CR' and the name 'Default Project'. See [Creating a project](#).

## review duration

The *review duration* is the period of time for which a review will run.

See [Editing a project](#).

## reviewer

A *reviewer* is a person assigned to [review the change](#). Reviewers can make [comments](#) and indicate when they have [completed their review](#). The [moderator](#) and [author](#) are implicitly considered to be participants of the review, but are not reviewers.

## role

See [participant](#).

## state

A Crucible review moves through the following states in the following sequence:

|                         |  |
|-------------------------|--|
| <b>Draft</b>            | See <a href="#">Creating a Review</a> .  |
| <b>Require Approval</b> | Relevant only when the <a href="#">moderator</a> is not the <a href="#">creator</a> . See <a href="#">Issuing a Review</a> . |
| <b>Under Review</b>     | See <a href="#">Issuing a Review</a> and <a href="#">Reviewing the Code</a> .  |

|                  |  |
|------------------|--|
| <b>Summarize</b> | See <a href="#">Summarising and Closing the Review</a> . |
| <b>Closed</b>    | See <a href="#">Summarising and Closing the Review</a> . |

 Reviews can be re-opened, i.e. moved from **Summarize** or **Closed** back to **Under Review**.

A review may also be in the following states:

|                     |   |
|---------------------|---|
| <b>Abandoned</b>    | This happens when a review is deleted.  |
| <b>Rejected</b>     | Any reviews that a <a href="#">moderator</a> has rejected.  |
| <b>Needs Fixing</b> | This means that the review state is not understood by Crucible, and indicates a programming or data issue. The review moderator can move the review into a known state if this happens. |

## statement of objective

A *statement of objective* is an optional text description of the review and any specific areas the [reviewers](#) should focus on.

## users in Crucible

A *user* is a person using Crucible.