Space Details

Key: CROWD

Name: Crowd 1.3

Description: Documentation for the latest version of Crowd single sign-on and identity management

Creator (Creation Date): justen.stepka@atlassian.com (Sep 28, 2006)

Last Modifier (Mod. Date): smaddox (Mar 03, 2008)

Available Pages

- TreeNavigation
- - Crowd Administration Guide
 - 1. Getting Started
 - 1.1 Concepts
 - 1.1.1 Supported Applications and Directories
 - 1.2 About the Crowd Administration Console
 - 2. Managing Directories
 - 2.1 Using the Directory Browser
 - 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
 - 2.3 Specifying Directory Permissions
 - 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another
 - 3. Managing Applications
 - 3.1 Using the Application Browser
 - 3.2 Adding an Application

- 3.2.01 Integrating Crowd with Apache
- 3.2.02 Integrating Crowd with Subversion
- 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
- 3.2.04 Integrating Crowd with Atlassian CrowdID
- 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
- 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
- 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application
- 4. Managing Users, Groups and Roles
 - 4.01 Using the User Browser
 - 4.02 Adding a User
 - 4.03 Deleting or Deactivating a User
 - 4.04 Managing a User's Session
 - 4.05 Editing a User's Details and Password
 - 4.06 Specifying a User's Attributes
 - 4.07 Editing a User's Group and Role Membership
 - 4.08 Granting Crowd Administration Rights to a User
 - 4.09 Using the Group Browser and Role Browser
 - 4.10 Adding a Group or Role
- 5. System Administration
 - 5.1 Viewing Crowd's System Information
 - 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - 5.2.3 Domain
 - 5.2.4 Token Seed

- 5.2.5 Session Configuration
- 5.2.6 Caching
 - Configuring Caching for an Application
- 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling
- Crowd Development Hub
 - Creating a Crowd Client for your Custom Application
 - Application Integration Overview
 - Sample Application ('demo')
 - Java Integration Libraries
 - Compiling the Crowd Source
 - Maven 2 Integration
 - SOAP API
 - Axis Client Stub Generation
 - Microsoft .NET Client
 - Creating a Custom Directory Connector
 - Crowd Developer FAQ
 - IntelliJ IDEA Setup Guide
 - Setting up Tomcat in IDEA for Crowd
- Crowd Installation & Upgrade Guide
 - Crowd Release Notes
 - Crowd 0.2 Beta Release Notes
 - Crowd 0.3 Beta Release Notes
 - Crowd 0.3.2 Beta Release Notes
 - Crowd 0.3.3 Beta Release Notes
 - Crowd 0.4 Beta Release Notes
 - Crowd 0.4.1 Beta Release Notes
 - Crowd 0.4.2 Beta Release Notes
 - Crowd 0.4.3 Beta Release Notes
 - Crowd 0.4.4 Beta Release Notes
 - Crowd 0.4.5 Beta Release Notes
 - Crowd 1.0.0 Release Notes
 - Crowd 1.0.1 Release Notes
 - Crowd 1.0.2 Release Notes
 - Crowd 1.0.3 Release Notes
 - Crowd 1.0.4 Release Notes
 - Crowd 1.0.5 Release Notes
 - Crowd 1.0.6 Release Notes
 - Crowd 1.0.7 Release Notes

- Crowd 1.1.0 Release Notes
- Crowd 1.1.1 Release Notes
- Crowd 1.1.2 Release Notes
- Crowd 1.2 Release Notes
- Crowd 1.2.1 Release Notes
- Crowd 1.2.2 Release Notes
- Crowd 1.3 Beta Release Notes
- Crowd 1.3 Release Notes
 - Client API Changes
 - Known Issues in Crowd 1.3
- Installing Crowd
 - 1. System Requirements
 - 1.1 Setting JAVA_HOME
 - 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
 - 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
 - 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
 - 4.2 Changing the Port that Crowd uses
 - 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service
- Upgrading Crowd

- 1. Upgrading from Crowd 1.3.0 or Later
- 2. Upgrading from Crowd 1.2.x or Earlier
- Upgrade Notes
 - Crowd 1.0 Upgrade Notes
 - Crowd 1.1 Upgrade Notes
 - Crowd 1.2 Upgrade Notes
 - Crowd 1.3 Beta Upgrade Notes
 - Crowd 1.3 Upgrade Notes
- Crowd Knowledge Base
 - Deployment FAQ
 - Finding your Crowd Home Directory
 - Recovering your Console application password
 - Resetting the Domain Cookie Value
 - Restarting the Setup Wizard from Scratch
 - Self Signed Certificate
 - Integration FAQ
 - All Integrations
 - If I delete a user from Crowd, how will this affect integrated applications?
 - Passing the crowd.properties File as an Environment Variable
 - Atlassian Product Integration
 - Application Caching
 - JIRA integration
 - Public Signup Setup
 - IBM Websphere Integration
 - More General FAO
 - Principals and Users
 - Troubleshooting
 - Troubleshooting SSO with Crowd
- CrowdID Administration Guide
 - 1. About CrowdID
 - 1.1 How CrowdID works with Crowd
 - 1.1.1 Determining the name of the CrowdID application
 - 1.1.2 Locating the Crowd Server that CrowdID is using
 - 1.1 How OpenID sites interact with CrowdID
 - 2. Allowing users to access CrowdID
 - 2.1 Granting CrowdID access rights to a user
 - 2.2 Granting CrowdID Administration Rights to a User
 - 3. Specifying the sites to which users can login
 - 3.1 Allowing all hosts
 - 3.2 Allowing all except specified hosts ('Blacklist')
 - 3.3 Allowing specified hosts only ('Whitelist')
 - 4. Configuring CrowdID system settings
 - 4.1 Specifying the CrowdID URL

- 4.2 Enabling localhost authentication
- 4.3 Enabling immediate authentication requests
- 4.4 Enabling communication with stateless clients
- CrowdID User Guide
 - 1. Getting started with CrowdID
 - 1.1 What is OpenID?
 - 1.2 What is CrowdID?
 - 1.3 What is an OpenID URL or identifier?
 - 1.4 Viewing the CrowdID page
 - 2. Logging in to a website using OpenID
 - 2.1 Does the website support OpenID?
 - 2.2 Entering your OpenID URL
 - 2.3 Logging in to CrowdID
 - 2.4 Allowing or denying a login
 - 2.5 Providing additional profile information to a website
 - 3. Viewing your always-approved websites
 - 4. Viewing your login history
 - 5. Updating your profile
 - 6. Using more than one profile
 - 6.1 Adding a profile
 - 6.2 Choosing a profile for a website
 - 6.3 Setting a default profile
 - 6.4 Deleting a profile
 - 7. Changing or resetting your password
 - 7.1 Changing your password
 - 7.2 Resetting your password
- newreleaseCrowd

TreeNavigation

This page last changed on Aug 09, 2007 by rosie@atlassian.com.

<u>Index</u>

Crowd Documentation

This page last changed on Mar 03, 2008 by smaddox.

Crowd 1.3 Documentation	Resources
Installation Guide Upgrade Guide Release Notes Crowd Administration Guide CrowdID Administration Guide CrowdID User Guide Integration Guide Development Hub	If you have a question about using Crowd, please contact our support team. You may also want to check out the mailing lists and forums: • Crowd Announcements • Crowd General Forum • Crowd Developers Forum Other handy links: • Crowd Knowledge Base • Javadoc • JIRA Issue Tracker for Crowd
About	
Crowd is a web-based single sign-on (SSO) tool that simplifies application provisioning and identity management. Crowd is the perfect solution to: Give your users the convenience of single sign-on Manage any number of users, logins and passwords Centralise user management for applications such as JIRA, Confluence and Bamboo Connect to multiple LDAP servers, such as Microsoft Active Directory Integrate or import legacy user repositories Control access to selected applications by user and group Easily connect Crowd's application framework to new web applications	Previous Versions Crowd 1.2 Documentation Crowd 1.1 Documentation Crowd 1.0 Documentation Crowd 1.0 Documentation

Table of Contents

Crowd Administration Guide

- 1. Getting Started
- 2. Managing Directories
- 3. Managing Applications
- 4. Managing Users, Groups and Roles
- 5. System Administration

Crowd Development Hub

- Creating a Crowd Client for your Custom Application
- Creating a Custom Directory Connector
- Crowd Developer FAQ

• IntelliJ IDEA Setup Guide

Crowd Installation & Upgrade Guide

- Crowd Release Notes
- Installing Crowd
- **Upgrading Crowd**

Crowd Knowledge Base

- Deployment FAQ
- Integration FAQ
- · More General FAQ
- Troubleshooting

CrowdID Administration Guide

- 1. About CrowdID
- 2. Allowing users to access CrowdID
- 3. Specifying the sites to which users can login
- 4. Configuring CrowdID system settings

CrowdID User Guide

- 1. Getting started with CrowdID
- 2. Logging in to a website using OpenID
- 3. Viewing your always-approved websites
- 4. Viewing your login history
- 5. Updating your profile
- <u>6. Using more than one profile</u>
- 7. Changing or resetting your password

Crowd Administration Guide

This page last changed on Aug 09, 2007 by rosie@atlassian.com.

<u>Crowd</u> is a web-based single sign-on (SSO) tool that simplifies application provisioning and identity management.

The Crowd Administration Guide is for people who have Crowd administration rights.

Table of Contents

- 1. Getting Started
 - 1.1 Concepts
 - 1.1.1 Supported Applications and Directories
 - 1.2 About the Crowd Administration Console
- 2. Managing Directories
 - 2.1 Using the Directory Browser
 - 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
 - 2.3 Specifying Directory Permissions
 - 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another
- 3. Managing Applications
 - 3.1 Using the Application Browser
 - 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
 - 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
 - 3.4 Specifying which Groups can access an Application
 - 3.5 Specifying an Application's Address or Hostname

- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application
- 4. Managing Users, Groups and Roles
 - 4.01 Using the User Browser
 - 4.02 Adding a User
 - 4.03 Deleting or Deactivating a User
 - 4.04 Managing a User's Session
 - 4.05 Editing a User's Details and Password
 - 4.06 Specifying a User's Attributes
 - 4.07 Editing a User's Group and Role Membership
 - 4.08 Granting Crowd Administration Rights to a User
 - 4.09 Using the Group Browser and Role Browser
 - 4.10 Adding a Group or Role
- 5. System Administration
 - 5.1 Viewing Crowd's System Information
 - 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
 - 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
 - 5.4 Backing Up and Restoring Data
 - 5.5 Logging and Profiling
 - Performance Profiling

1. Getting Started

This page last changed on Mar 12, 2007 by rosie@atlassian.com.

- 1.1 Concepts

 1.1.1 Supported Applications and Directories

 1.2 About the Crowd Administration Console

1.1 Concepts

This page last changed on Jun 13, 2007 by rosie@atlassian.com.

Crowd is an application security framework that handles authentication and authorisation for your webbased applications. With Crowd you can quickly integrate multiple web applications into a single security architecture that supports single sign-on (SSO) and centralised identity management.

Crowd has two components:

- The <u>Crowd Administration Console</u> is a clean and powerful web-interface for managing directories, users (known in Crowd as 'principals') and their security rights ('permissions').
- The <u>Crowd integration API</u> provides a platform-neutral way to integrate web applications into a single security architecture. With the integration API, applications can quickly access user information and perform security checks.

Designed for ease of use, Crowd can be deployed with your existing infrastructure. Crowd supports:

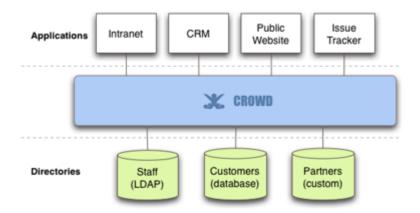
- Java, .NET and PHP applications.
- Popular directory servers such as Microsoft Active Directory, Sun ONE and OpenLDAP. Additionally, custom directory connectors may be developed using the Crowd integration API.

See the <u>list</u> of supported applications and directories.

Architectural Overview

Crowd is a middleware application that integrates web applications into a single security architecture that supports single sign-on and centralised identity management. Crowd works by dispatching authentication and authorisation calls from configured applications to configured directories.

A typical deployment may be similar to the following:



When an application needs to validate a security or authentication request (e.g. when a user attempts to log in to the application), the application will make a simple API call to the Crowd framework, which will then forward the call to the appropriate directory.

About Applications

Crowd integrates and provisions applications. Once <u>defined</u>, an application is <u>mapped</u> to a directory(s), whose users are then <u>granted access</u> to the application. Note that an application can only communicate with Crowd when the application uses a known host address.

About Directories

Crowd supports an unlimited number of user directories. A directory can be one of the following types:

- Internal to Crowd.
- Connected to Crowd via an LDAP connector (e.g. for Active Directory), with all authentication and user/group/role management in LDAP.

- A Crowd internal directory for user/group/role management but with authentication delegated to LDAP (e.g. Active Directory).
- Connected via a custom directory connector (e.g. for a legacy database).

Once you have <u>defined</u> a directory in Crowd, you can <u>map</u> it to applications. Crowd will then pass authentication and authorisation requests to the directory, for all applications that are mapped to that directory. Modification of directory entities (<u>users, groups and roles</u>) can be done via the Crowd Administration Console or via the application, depending on the application's capabilities.

You can even map multiple directories to an application, providing the application with a single view of multiple directories in a specified <u>order</u>.

Related Topics

- 1.1 Concepts
 - 1.1.1 Supported Applications and Directories
- 1.2 About the Crowd Administration Console

1.1.1 Supported Applications and Directories

This page last changed on Dec 04, 2007 by smaddox.

Application Connectors

- Atlassian JIRA
- Atlassian Confluence
- Atlassian Bamboo
- Atlassian Fisheye
- Atlassian Crucible
- Apache
- Subversion
- · Jive Forums
- Atlassian CrowdID
- Acegi
- NTLM for JIRA
- NTLM for Confluence

You can also add your own custom applications.

Directory Connectors

- Microsoft Active Directory
- OpenLDAP
- Sun Java System (SunONE) Directory Server
- Apache Directory Server (ApacheDS)
- Internal Crowd Directory

You can also add your own custom directories.

Related Topics

- 1.1 Concepts
 - 1.1.1 Supported Applications and Directories
- 1.2 About the Crowd Administration Console

1.2 About the Crowd Administration Console

This page last changed on Feb 25, 2008 by smaddox.

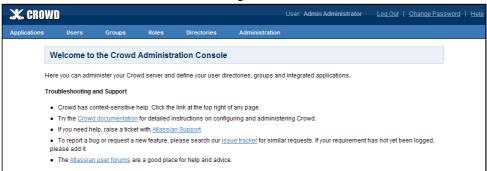
The Crowd Administration Console allows you to:

- Configure applications to access the Crowd framework.
- Create and manage <u>users</u> and adjust their group and role membership.
- Map <u>directories</u> to allow users to access integrated applications.
- Adjust server deployment properties, including those configured during the setup process.
- Back up and restore your Crowd data.
- View active sessions and manually expire sessions.
- View Crowd system information.

To access the Crowd Administration Console,

- 1. Go to the URL http://localhost:8095/crowd/console.
 - Only <u>authorised administrators</u> can log in to the Crowd Administration Console.

The welcome screen will look something like this:





The Crowd Administration Console is a web application provisioned by Crowd — you can see it in the list of applications shown in the $\underline{\text{Application Browser}}$.

RELATED TOPICS

- 1.1 Concepts
 - 1.1.1 Supported Applications and Directories
- 1.2 About the Crowd Administration Console

2. Managing Directories

This page last changed on Feb 14, 2008 by smaddox.

Crowd supports an unlimited number of user directories. A directory can be one of the following types:

- · Internal to Crowd.
- Connected to Crowd via an LDAP connector (e.g. for Active Directory), with all authentication and user/group/role management in LDAP.
- A Crowd internal directory for user/group/role management but with authentication delegated to LDAP (e.g. Active Directory).
- Connected via a custom directory connector (e.g. for a legacy database).

Once you have defined a directory in Crowd, you can map it to applications. Crowd will then pass authentication and authorisation requests to the directory, for all applications that are mapped to that directory. Modification of directory entities (users, groups and roles) can be done via the Crowd Administration Console or via the application, depending on the application's capabilities.

You can even map multiple directories to an application, providing the application with a single view of multiple directories in a specified order.

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory

 - 2.2.2.2 SunONE2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- · 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.1 Using the Directory Browser

This page last changed on Feb 18, 2008 by doflynn.

About Directories

Crowd supports an unlimited number of user directories. A directory can be one of the following types:

- · Internal to Crowd.
- Connected to Crowd via an LDAP connector (e.g. for Active Directory), with all authentication and user/group/role management in LDAP.
- A Crowd internal directory for user/group/role management but with authentication delegated to LDAP (e.g. Active Directory).
- Connected via a custom directory connector (e.g. for a legacy database).

Once you have <u>defined</u> a directory in Crowd, you can <u>map</u> it to applications. Crowd will then pass authentication and authorisation requests to the directory, for all applications that are mapped to that directory. Modification of directory entities (<u>users, groups and roles</u>) can be done via the Crowd Administration Console or via the application, depending on the application's capabilities.

You can even map multiple directories to an application, providing the application with a single view of multiple directories in a specified <u>order</u>.

About the Directory Browser

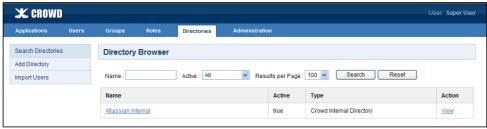
The Directory Browser allows you to view and search for configured directories.

To use the Directory Browser,

- 1. Login to the <u>Crowd Administration Console</u>.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the Directory Browser, showing all the directories that exist in your Crowd system. You can refine your search by specifying a 'Name' (note that this is case-sensitive), or 'Active'/'Inactive' directories.
 - 1 An 'Inactive' directory is unable to be used by any applications, regardless of whether or not they are mapped to it.
- 4. To view/edit a directory's details, click the 'View' link.

You created one default directory when you <u>set up Crowd</u>. To add more directories, see <u>2.2 Adding a Directory</u>

Screenshot: 'Directory Browser'



Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory

- Configuring an SSL Certificate for Microsoft Active Directory
- 2.2.2.2 SunONE
- 2.2.2.3 OpenLDAP
- 2.2.2.4 Apache Directory Server (ApacheDS)
- 2.2.2.5 Generic LDAP Directories
- 2.2.3 Configuring a Custom Directory Connector
- 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.2 Adding a Directory

This page last changed on Feb 18, 2008 by doflynn.

Directories contain authentication and authorisation information about users, groups and roles. Crowd supports an unlimited number of directories. Administrators can use different directories to create silos of users. For example, you might store your customers in one directory and your employees in another.

Crowd supports the following types of directory:

Crowd Internal Directory

Internal directories use the Crowd database to store user, group and role information. Internal directories are stored in Crowd's <u>database server</u>.

• Delegated Authentication Directory

A Delegated Authentication directory combines the features of an internal Crowd directory with delegated LDAP authentication. This means that you can have your users authenticated via an external LDAP directory while managing the users, groups and roles in Crowd. You can use Crowd's flexible and simple group management when the LDAP groups do not suit your requirements.

For example, you can set up a simple group configuration in Crowd for use with <u>Confluence</u> and other <u>Atlassian</u> products, while authenticating your users against the corporate LDAP directory. You can also avoid the performance issues which might result from downloading large numbers of groups from LDAP.

• LDAP Directory Connector

Crowd provides built-in connectors for the most popular LDAP directory servers (Microsoft Active Directory, SunONE/DSEE, OpenLDAP, Apache Directory). These LDAP connectors enable you to quickly integrate existing desktop logins with web applications.

Custom Directory Connector

Custom directory connectors allow developers to connect Crowd to custom user-stores, such as existing databases or legacy systems.

You can add as many directories of each type as you need.

To add a directory,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the <u>Directory Browser</u>. Click the 'Add Directory' link.
- 4. This will display the 'Select Directory Type' screen (see below). Click the button corresponding to the type of directory you want to add:
 - 'Internal' see 2.2.1 Configuring an Internal Directory
 - 'Delegated Authentication' see 2.2.4 Configuring a Delegated Authentication Directory
 - 'Connector' see <u>2.2.2 Configuring an LDAP Directory Connector</u> (e.g. Microsoft Active Directory)
 - 'Custom' see 2.2.3 Configuring a Custom Directory Connector

Once a directory has been configured, you will need to specify <u>permissions</u> for its users. You can then <u>map</u> the directory to appropriate applications.

Screenshot: 'Select Directory Type'

Select Directory Type	
Internal directories store authentication and authorisation information in the Crowd database.	
	Internal »
Delegated Authentication directories store users and groups within Crowd and delegate authentication to an extern	nal LDAP directory.
	Delegated Authentication »
Crowd ships with several LDAP connectors, such as Active Directory, Apache Directory Server, Sun ONE/DSEE and	d OpenLDAP.
	Connector »
Custom directories allow developers to implement an interface to connect custom user stores such as existing da	tabases.
	Custom »

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA 2.4.3 Importing Users from Jive Forums

 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.2.1 Configuring an Internal Directory

This page last changed on Feb 18, 2008 by doflynn.

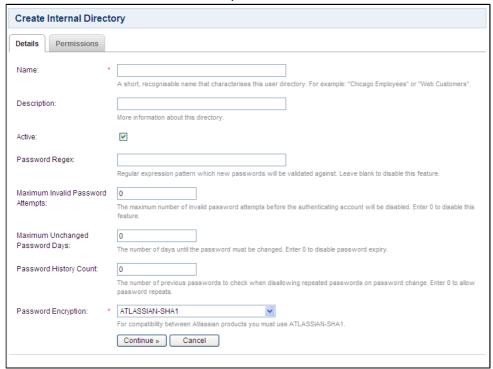
Internal directories use the Crowd database to store user, group and role information. Internal directories are stored in Crowd's <u>database server</u>.

To configure an Internal Directory,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the <u>Directory Browser</u>. Click the 'Add Directory' link.
- 4. Click the 'Internal' button.
- 5. Complete the fields as described in the table below.
- 6. Click the 'Continue' button to configure the directory's <u>permissions</u>.

① Once you have configured the directory's permissions, you will have finished configuring your new directory. You can then map the directory to appropriate applications.

Screenshot: 'Create Internal Directory'



Internal Directory Attributes	Description
Name	The name used to identify the directory within Crowd. This is useful when there are multiple directories configured, e.g. Chicago Employees or Web Customers.
Description	Details about this specific directory.
Active	Only deselect this if you wish to prevent all users within the directory from accessing all mapped applications.
Password Regex	Regex pattern which new passwords will be validated against. The regular expression format

	used is the <u>java.util.regex.Pattern</u> . For example, for an alphanumeric password of at least 8 characters, you could use the pattern: *\[A-Za-z0-9\]{8,}* Leave blank to disable this feature.
Maximum Invalid Password Attempts	The maximum number of invalid password attempts before the authenticating account will be disabled. Enter 0 to disable this feature.
Maimum Unchanged Password Days	The number of days until the password must be changed. This value is in days, enter 0 to disable this feature.
Password History Count	The number of previous passwords to prevent the user from using. Enter 0 to disable this feature.
Password Encryption	If you wish to <u>import users</u> into this directory from another Atlassian product, specify 'ATLASSIAN-SHA1' in order to ensure password compatibility.

Next Step:

See 2.3 Specifying Directory Permissions

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer

 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.2.2 Configuring an LDAP Directory Connector

This page last changed on Feb 18, 2008 by doflynn.

Crowd provides built-in connectors for the most popular LDAP directory servers (Microsoft Active Directory, SunONE/DSEE, OpenLDAP, Apache Directory). These LDAP connectors enable you to quickly integrate existing desktop logins with web applications.

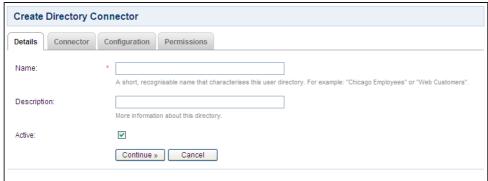
Summary of Configuration Steps

To configure an LDAP directory connector,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the <u>Directory Browser</u>. Click the 'Add Directory' link.
- 4. This will display the 'Select Directory Type' screen. Click the 'Connector' button.
- 5. This will display the 'Details' tab (see <u>Screenshot 1</u> below). Enter the 'Name' and 'Description' fields (see table below), then click the 'Continue' button.
- 6. This will display the 'Connector' tab (see <u>Screenshot 2</u> below). Select the relevant connector type, and fill in the basic connection information for your directory server. For details, please see:
 - 2.2.2.1 Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
- 7. Click the 'Test Connection' button to verify that Crowd can successfully connect to the directory.
- 8. Click the 'Continue' button.
- 9. This will display the 'Configuration' tab (see <u>Screenshot 3</u> below). Fill in the configuration details for your groups, roles and users, as described in the tables below Screenshot 3. Also please see <u>LDAP Object Structures</u> (below).
- 10. Click the 'Test Search' button to verify that Crowd can successfully locate groups/roles/users within the directory.
- 11. Click the 'Continue' button to configure the directory's permissions.

Configuring Directory Details

Screenshot 1: Directory details

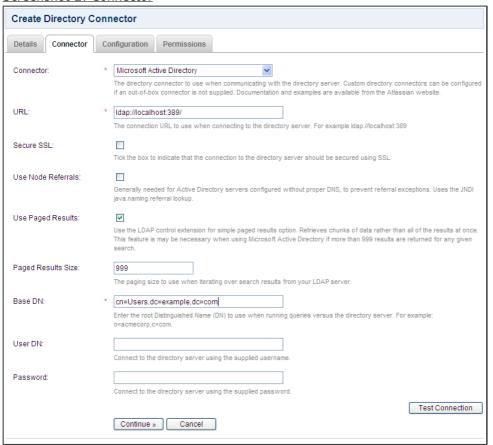


Attribute	Description
Name	The name used to identify the directory within Crowd. This is useful when there are multiple directories configured, e.g. 'Chicago Employees' or 'Web Customers'.
Description	Details about this specific directory.

Active	Only deselect this if you wish to prevent all users within the directory from accessing all mapped applications.

Configuring Connector Details

Screenshot 2: Connector



Attribute	Description
Connector	The directory connector to use when communicating with the directory server.
URL	The connection URL to use when connecting to the directory server, e.g.: ldap://localhost:389, or port 636 for SSL.
Secure SSL	Specifies whether the connection to the directory server is an SSL connection.
Use Node Referrals	Use the JNDI lookup java.naming.referral option. Generally needed for Active Directory servers configured without proper DNS, to prevent a 'javax.naming.PartialResultException: Unprocessed Continuation Reference(s)' error.
Use Paged Results	Use the LDAP control extension for simple paging of search results. Retrieves chunks of data rather

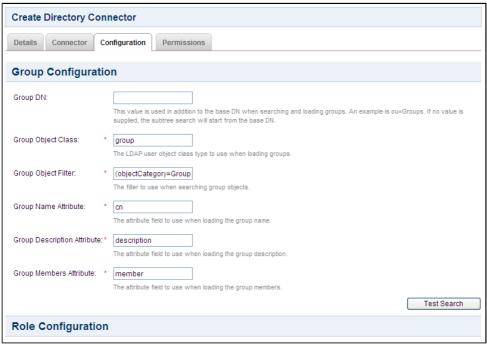
	than all of the search results at once. This feature may be necessary when using Microsoft Active Directory if more than 999 results are returned for any given search.
Paged Results Size	Enter the desired page size i.e. the maximum number of search results to be returned per page, when paged results are enabled. Defaults to 999 results. This option is available from Crowd 1.1.1.
Base DN	Enter the root distinguished name to use when running queries versus the directory server, e.g.: o=acmecorp,c=com.
User DN	Distinguished name of the user that Crowd will use when connecting to the directory server.
Password	The password that Crowd will use when connecting to the directory server.

1 We have shown the settings for Active Directory. For details about the settings for your specific directory server, please see:

- 2.2.2.1 Microsoft Active Directory
- 2.2.2.2 SunONE
- 2.2.2.3 OpenLDAP
- 2.2.2.4 Apache Directory Server (ApacheDS)
- 2.2.2.5 Generic LDAP Directories

Configuring LDAP Object and Attribute Settings

Screenshot 3: Configuration



Once you have selected a connector you can modify various LDAP object and attribute settings of the specific LDAP server, as shown on the screenshot above. On first setup, Crowd will provide generic default settings, based on the connector selected.

When configuring your LDAP connector, if you are using non-standard object types, you will need to adjust the default filter and object type configurations. Default values are configured for the predefined LDAP servers. If your connector is added successfully, but you are unable to see any data when browsing your LDAP directory, it is likely that your object and filters are configured incorrectly.

Group Configuration

Attribute	Description
Group DN	This value is used in addition to the base DN when searching and loading groups, an example is ou=Groups. If no value is supplied, the subtree search will start from the base DN.
Group Object Class	This is the name of the class used for the LDAP group object. For example, groupOfUniqueNames.
Group Object Filter	The filter to use when searching group objects.
Group Name Attribute	The attribute field to use when loading the group's name.
Group Description Attribute	The attribute field to use when loading the group's description.
Group Members Attribute	The attribute field to use when loading the group's members.

Role Configuration

Attribute	Description
Role DN	This value is used in addition to the base DN when searching and loading roles, an example is ou=Roles. If no value is supplied, the subtree search will start from the base DN.
Role Object Class	This is the name of the class used for the LDAP role object.
Role Object Filter	The filter to use when searching role objects.
Role Name Attribute	The attribute field to use when loading the role's name.
Role Description Attribute	The attribute field to use when loading the role's description.
Role Members Attribute	The attribute field to use when loading the role's members.

User Configuration

Attribute	Description
User DN	This value is used in addition to the base DN when searching and loading users, an example

	is ou=Users. If no value is supplied, the subtree search will start from the base DN.
User Object Class	The LDAP user object class type to use when loading users.
User Object Filter	The filter to use when searching user objects.
User Name	The attribute field to use when loading the username.
User First Name	The attribute field to use when loading the user's first name.
User Last Name	The attribute field to use when loading the user's last name.
User Email	The attribute field to use when loading the user's email.
User Group	The attribute field to use when loading the user's groups.
User Password	The attribute field to use when manipulating a user's password.

LDAP Object Structures

The Crowd LDAP connectors assume that all container objects (groups and roles) have the full DN to the associated member. Currently, the membership attributes on a User object are not used by Crowd; however, in the future these associations may be used to assist with performance when looking up memberships.



To help you identify your LDAP structure, JXplorer is a free tool that allows you to browse your LDAP tree.

Supported Object Types:

- groupOfUniqueNames
- · inetorgperson

Non-supported Object types:

The following object types are not supported because of the required quiNumber attribute.

- posixGroup
- posixUser



Zimbra Mail Server

User objects have been tested and are known to work with the zimbraAccount LDAP object types.



Microsoft Active Directory:

The Active Directory LDAP connector assumes that all LDAP object types are of the default structure. Any changes to the default object structure of the User and Group objects will require a <u>custom connector</u> to be coded.

Supported Attributes

Crowd's LDAP connectors support the adding and updating of the following user attributes when integrating with an LDAP server via an LDAP directory connector:

- surname
- given name
- email
- password

If you need support for additional LDAP attributes, the Crowd LDAP connector can be extended. With a license purchase, full source is available and the LDAP connectors can be modified to support any number of attributes.

Next Step

Specify the directory permissions, which allow you to restrict the way in which applications can use the directories. See 2.3 Specifying Directory Permissions.

Once you have configured the directory's permissions, you have finished configuring your new directory. You can then map the directory to appropriate applications.

RELATED TOPICS

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory

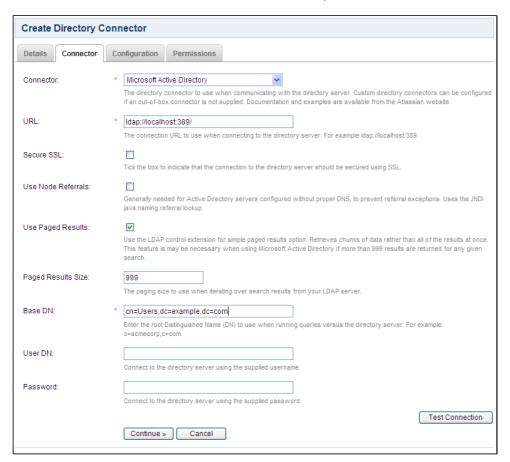
 - 2.2.2.2 SunONE 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.2.2.1 Microsoft Active Directory

This page last changed on Feb 18, 2008 by doflynn.

1 This page provides configuration notes for Microsoft Active Directory, in relation to 2.2.2 Configuring an LDAP Directory Connector.

<u>Screenshot: 'Connector — Microsoft Active Directory'</u>



Attribute	Description
Connector	The directory connector to use when communicating with the directory server.
URL	The connection URL to use when connecting to the directory server, e.g.: ldap://localhost:389, or port 636 for SSL.
Secure SSL	Specifies whether the connection to the directory server is an SSL connection.
Use Node Referrals	Use the JNDI lookup java.naming.referral option. Generally needed for Active Directory servers configured without proper DNS, to prevent a 'javax.naming.PartialResultException: Unprocessed Continuation Reference(s)' error.
Use Paged Results	Use the LDAP control extension for simple paging of search results. Retrieves chunks of data rather than all of the search results at once. This feature may be necessary when using Microsoft Active

	Directory if more than 999 results are returned for any given search.
Paged Results Size	Enter the desired page size i.e. the maximum number of search results to be returned per page, when paged results are enabled. Defaults to 999 results. This option is available from Crowd 1.1.1.
Base DN	Enter the root distinguished name to use when running queries versus the directory server, e.g.: o=acmecorp,c=com.
User DN	Distinguished name of the user that Crowd will use when connecting to the directory server.
Password	The password that Crowd will use when connecting to the directory server.

Configuration notes for Microsoft Active Directory

Active Directory Attribute Example	Value
Base DN	cn=users,dc=ad,dc=acmecorp,dc=com
User DN	administrator@ad.acmecorp.com

For Microsoft Active Directory, specify the Base DN in the following format: dc=domain1,dc=local. You will need to replace the domain1 and local for your specific configuration. Microsoft Server provides a tool called ldp.exe which is useful for finding out and configuring the the LDAP structure of your server.

The URL for Microsoft Active Directory should be in the following format: ldap://domainname.



Configuring an SSL Certificate for Microsoft Active Directory

If you wish to use Crowd to add users or change passwords in Microsoft Active Directory, you will need to install an SSL certificated generated by your Active Directory server and then install the certificate into your JVM keystore. Please read the instructions: Configuring an SSL Certificate for Microsoft Active Directory.

Next Step

Go back to 2.2.2 Configuring an LDAP Directory Connector

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions

- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 2.4.2 Importing Users from Atlassian JIRA

 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files

 - 2.4.4.1 Configuring the CSV Importer
 2.4.4.2 Mapping CSV Fields to Crowd Fields
 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

Configuring an SSL Certificate for Microsoft Active Directory

This page last changed on Feb 14, 2008 by smaddox.

You can configure Crowd to work with Microsoft Active Directory by setting up an <u>LDAP connector</u> in Crowd. If you wish to use Crowd to add users or change passwords in Active Directory, you will need to install an SSL certificated generated by your Active Directory server and then install the certificate into your JVM keystore.

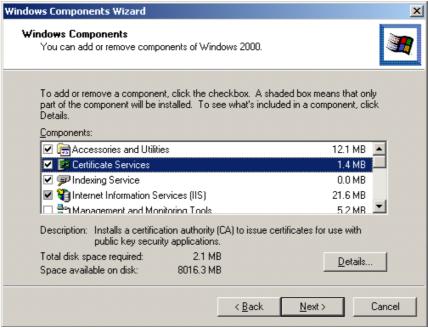
Prerequisites

Make sure that you have the following installed on your Windows server (domain controller):

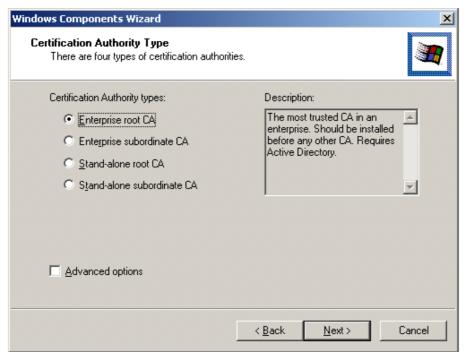
Required Component	Description
Windows 2000 Service Pack 2	Required if you are using Windows 2000
Internet Information Services (IIS)	This is required before you can install Windows Certificate Services.
Windows Certificate Services	This installs a certification authority (CA) which is used to issue certificates.
Windows 2000 High Encryption Pack (128-bit)	Required if you are using Windows 2000. Provides the highest available encryption level (128-bit).

Step 1. Install the Microsoft Certificate Services

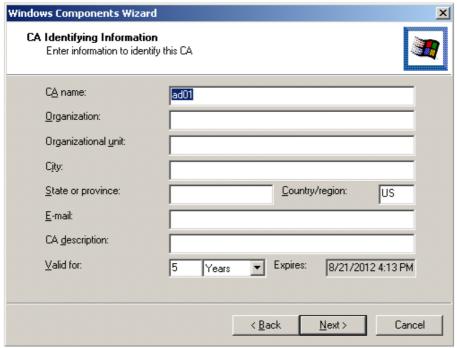
- 1. Using the Active Directory Control Panel Add/Remove Programs administration tool:
 - Select 'Add/Remove Windows Components' to start the Windows Components Wizard.
 - Place check marks next to 'Certificate Services' and 'Internet Information Services (IIS)'.
 - · Click 'Next>'.



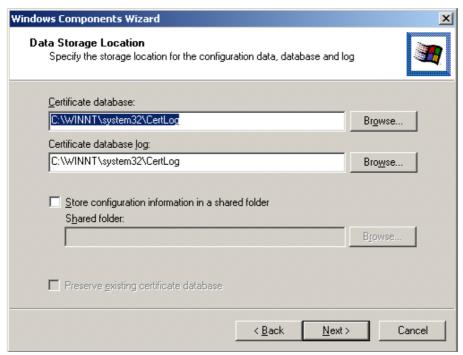
2. Select 'Enterprise root CA' Certificate Authority Type and click 'Next>'.



3. Enter a 'CA name' (server name) and click 'Next>'. On Windows Server 2003, this is the 'Common name for this CA'.



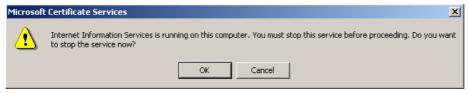
4. Leave the 'Data Storage Locations' as default and click 'Next>'.



5. The software installation process is complete. Click 'Finish'.



6. Click 'OK' to restart IIS.



7. You will now need to restart your Microsoft Active Directory Server.

Step 2. Obtain the Server Certificate

The steps above describe how to install the certification authority (CA) on your Microsoft Active Directory server. Next, you will need to add the Microsoft Active Directory server's SSL certificate to the list of accepted certificates used by the JDK that runs your Crowd server.

The Active Directory certificate is automatically generated and placed in root of the C:\ drive, matching a file format similar to the tree structure of your Active Directory server, e.g. c:\crowd-ad2000.ad01.crowd.atlassian.com_ad01.crt.

You can also export the certificate by executing this command on the Active Directory server:

```
certutil -ca.cert crowd-client.crt
```

Step 3. Import the Server Certificate

Now you need to import the Active Directory certificate to the list of accepted certificates in your JDK runtime environment.

- Assuming your JDK is installed here C:\Program Files\Java\jdk1.5.0_12, you will need to run the following command:
 - C:\Program Files\Java\jdk1.5.0_12\keytool \-import \-alias crowd_crt \-file crowd-client.crt \-keystore "C:\Program Files\Java\jdk1.5.0_12\jre\lib\security\cacerts"
- The keytool import will prompt you for a password during import. The default keystore password is changeit.
- When prompted Trust this certificate? [no]: enter 'yes' to confirm the Active Directory Server key import:

You may now use the Secure SSL option when connecting to an Active Directory server with Crowd's built in connectors.

Related Topics

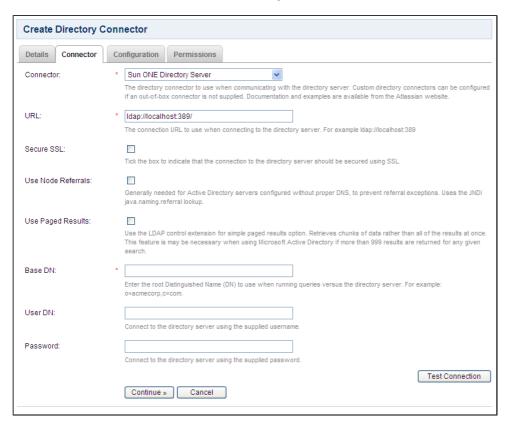
2.2.2.1 Microsoft Active Directory

2.2.2.2 SunONE

This page last changed on Feb 18, 2008 by doflynn.

1 This page provides configuration notes for SunONE Directory Server, in relation to 2.2.2 Configuring an LDAP Directory Connector.

<u>Screenshot: 'Connector — SunONE Directory Server'</u>



Attribute	Description
Connector	The directory connector to use when communicating with the directory server.
URL	The connection URL to use when connecting to the directory server, e.g.: ldap://localhost:389, or port 639 for SSL.
Secure SSL	Specifies if the connection to the directory server is a SSL connection.
Use Node Referrals	Use the JNDI lookup java.naming.referral option. Generally needed for Active Directory servers configured without proper DNS, to prevent a 'javax.naming.PartialResultException: Unprocessed Continuation Reference(s)' error.
Use Paged Results	Use the LDAP control extension for simple paged results option. Retrieves chunks of data rather than all of the results at once. This feature may be necessary when using Microsoft Active Directory if more than 999 results are returned for any given search.

Base DN	Enter the root distinguished name to use when running queries versus the directory server, e.g.: o=acmecorp,c=com.
User DN	The username that Crowd will use when connecting to the directory server.
Password	The password that Crowd will use when connecting to the directory server.

Configuration details for SunONE

SunONE Example	Value
Base DN	dc=acmecorp,dc=com
User DN	cn=Directory Manager

Next Step

Go back to 2.2.2 Configuring an LDAP Directory Connector

Related Topics

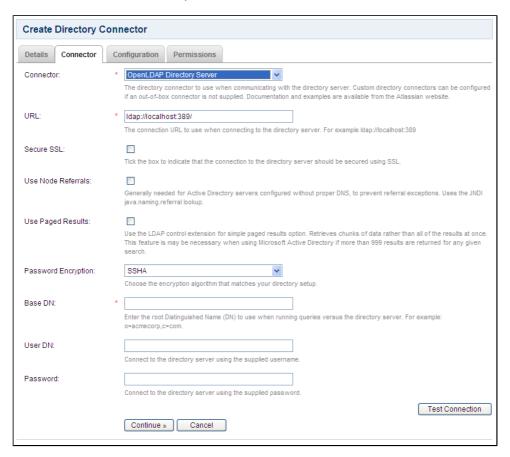
- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.2.2.3 OpenLDAP

This page last changed on Feb 18, 2008 by doflynn.

1 This page provides configuration notes for OpenLDAP, in relation to <u>2.2.2 Configuring an LDAP Directory Connector</u>.

<u>Screenshot: 'Connector — OpenLDAP'</u>



Attribute	Description
Connector	The directory connector to use when communicating with the directory server.
URL	The connection URL to use when connecting to the directory server, e.g.: ldap://localhost:389, or port 639 for SSL.
Secure SSL	Specifies if the connection to the directory server is a SSL connection.
Use Node Referrals	Use the JNDI lookup java.naming.referral option. Generally needed for Active Directory servers configured without proper DNS, to prevent a 'javax.naming.PartialResultException: Unprocessed Continuation Reference(s)' error.
Use Paged Results	Use the LDAP control extension for simple paged results option. Retrieves chunks of data rather than all of the results at once. This feature may be necessary when using Microsoft Active

	Directory if more than 999 results are returned for any given search.
Password Encryption	Select the type of encryption that the directory uses.
Base DN	Enter the root distinguished name to use when running queries versus the directory server, e.g.: o=acmecorp,c=com.
User DN	The username that Crowd will use when connecting to the directory server.
Password	The password that Crowd will use when connecting to the directory server.

Configuration details for OpenLDAP

OpenLDAP Directory Example	Value
Base DN	dc=exampel,dc=com
User DN	cn=Manager,dc=example,dc=com

Next Step

Go back to 2.2.2 Configuring an LDAP Directory Connector

Related Topics

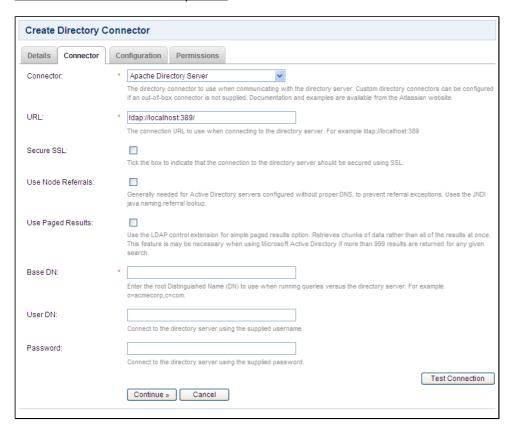
- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.2.2.4 Apache Directory Server (ApacheDS)

This page last changed on Feb 18, 2008 by doflynn.

This page provides configuration notes for Apache Directory Server, in relation to <u>2.2.2 Configuring an LDAP Directory Connector</u>.

Screenshot: 'Connector — Apache '



Attribute	Description
Connector	The directory connector to use when communicating with the directory server.
URL	The connection URL to use when connecting to the directory server, e.g.: ldap://localhost:389, or port 639 for SSL.
Secure SSL	Specifies if the connection to the directory server is a SSL connection.
Use Node Referrals	Use the JNDI lookup java.naming.referral option. Generally needed for Active Directory servers configured without proper DNS, to prevent a 'javax.naming.PartialResultException: Unprocessed Continuation Reference(s)' error.
Use Paged Results	Use the LDAP control extension for simple paged results option. Retrieves chunks of data rather than all of the results at once. This feature may be necessary when using Microsoft Active Directory if more than 999 results are returned for any given search.

Base DN	Enter the root distinguished name to use when running queries versus the directory server, e.g.: o=acmecorp,c=com.
User DN	The username that Crowd will use when connecting to the directory server.
Password	The password that Crowd will use when connecting to the directory server.

Configuration details for ApacheDS

OpenLDAP Directory Example	Value
Base DN	dc=example,dc=com

Next Step

Go back to 2.2.2 Configuring an LDAP Directory Connector

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- · 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files

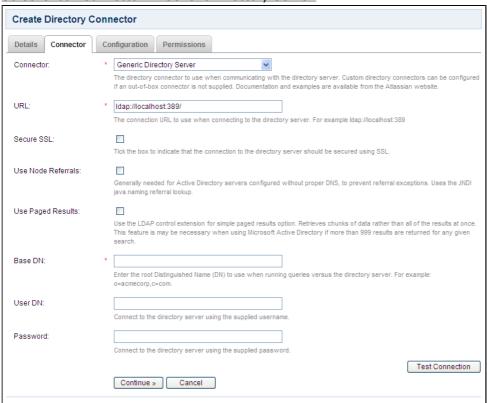
 - 2.4.4.1 Configuring the CSV Importer2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.2.2.5 Generic LDAP Directories

This page last changed on Feb 18, 2008 by doflynn.

This page provides configuration notes for generic LDAP directories, in relation to <u>2.2.2 Configuring an LDAP Directory Connector</u>.

Screenshot: 'Connector — Generic Directory Server'



Attribute	Description
Connector	The directory connector to use when communicating with the directory server.
URL	The connection URL to use when connecting to the directory server, e.g.: ldap://localhost:389, or port 639 for SSL.
Secure SSL	Specifies if the connection to the directory server is a SSL connection.
Use Node Referrals	Use the JNDI lookup java.naming.referral option. Generally needed for Active Directory servers configured without proper DNS, to prevent a 'javax.naming.PartialResultException: Unprocessed Continuation Reference(s)' error.
Use Paged Results	Use the LDAP control extension for simple paged results option. Retrieves chunks of data rather than all of the results at once. This feature may be necessary when using Microsoft Active Directory if more than 999 results are returned for any given search.
Base DN	

	Enter the root distinguished name to use when running queries versus the directory server, e.g.: o=acmecorp,c=com.
User DN	The username that Crowd will use when connecting to the directory server.
Password	The password that Crowd will use when connecting to the directory server.

Next Step

Go back to 2.2.2 Configuring an LDAP Directory Connector

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- · 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.2.3 Configuring a Custom Directory Connector

This page last changed on Feb 18, 2008 by doflynn.

Custom directory connectors allow developers to connect Crowd to custom user-stores, such as existing databases or legacy systems.

First you need to create a custom directory connector. The simplest way to accomplish this is to add a JAR file with the necessary classes to the Crowd WEB-INF/lib folder. For details, please see Creating a Custom Directory Connector.

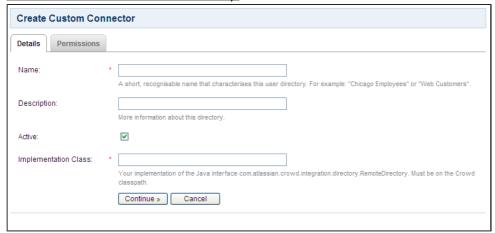
Once you have added your JAR file to the Crowd WEB-INF/lib folder, you are ready to configure a Custom Directory Connector, as described below.

To configure a Custom Directory Connector,

- 1. Log in to the <u>Crowd Administration Console</u>.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the <u>Directory Browser</u>. Click the 'Add Directory' link.
- 4. Click the 'Custom' button.
- 5. Complete the fields as described in the table below.
- 6. Click the 'Continue' button to configure the directory's permissions.

Once you have configured the directory's permissions, you will have finished configuring your new directory. You can then map the directory to appropriate applications.

Screenshot: 'Create Custom Directory'



Custom Directory Store Attributes	Description	
Name	The name used to identify the directory within Crowd. This is useful when there are multiple directories configured, e.g. Chicago Employees or Web Customers.	
Description	Details about this specific directory.	
Active	Only deselect this if you wish to prevent all users within the directory from accessing all mapped applications.	
Implementation Class	Implementation of com.atlassian.crowd.integration.directory.RemoteI Java interface. Must be in the Crowd CLASSPATH.	Direc

Next Step:

See 2.3 Specifying Directory Permissions

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

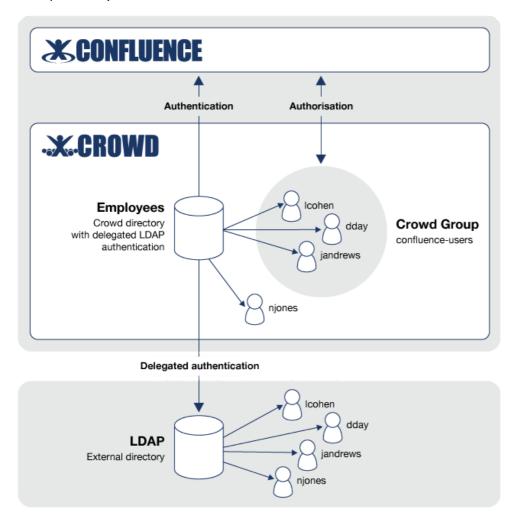
2.2.4 Configuring a Delegated Authentication Directory

This page last changed on Feb 14, 2008 by smaddox.

A Delegated Authentication directory combines the features of an internal Crowd directory with delegated LDAP authentication. This means that you can have your users authenticated via an external LDAP directory while managing the users, groups and roles in Crowd. You can use Crowd's flexible and simple group management when the LDAP groups do not suit your requirements.

For example, you can set up a simple group configuration in Crowd for use with <u>Confluence</u> and other <u>Atlassian</u> products, while authenticating your users against the corporate LDAP directory. You can also avoid the performance issues which might result from downloading large numbers of groups from LDAP. The diagram below gives a conceptual overview of delegated LDAP authentication. This example assumes that you have:

- The Confluence application integrated with Crowd.
- A Crowd Delegated Authentication directory called 'Employees' which contains the group 'confluence-users'.
- An LDAP directory containing all your employees and their authentication details (e.g. username and password).



Summary of Configuration Steps

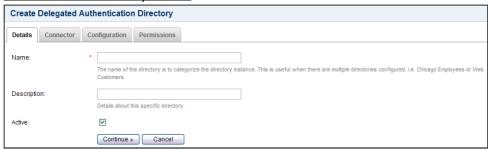
To configure a Delegated Authentication directory,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the <u>Directory Browser</u>. Click the 'Add Directory' link.

- 4. This will display the 'Select Directory Type' screen. Click the 'Delegated Authentication' button.
- 5. This will display the 'Details' tab (see <u>Screenshot 1</u> below). Enter the 'Name' and 'Description' fields, then click the 'Continue' button.
- 6. This will display the 'Connector' tab (see <u>Screenshot 2</u> below). Select the relevant connector type, and fill in the basic connection information for your directory server. For details, please see:
 - 2.2.2.1 Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
- 7. Click the 'Test Connection' button to verify that Crowd can successfully connect to the directory.
- 8. Click the 'Continue' button.
- 9. This will display the 'Configuration' tab (see Screenshot3 below). Fill in the configuration details for your users.
- 10. Click the 'Test Search' button to verify that Crowd can successfully locate groups/roles/users within the directory.
- 11. Click the 'Continue' button to configure the directory's permissions.

Configuring Directory Details

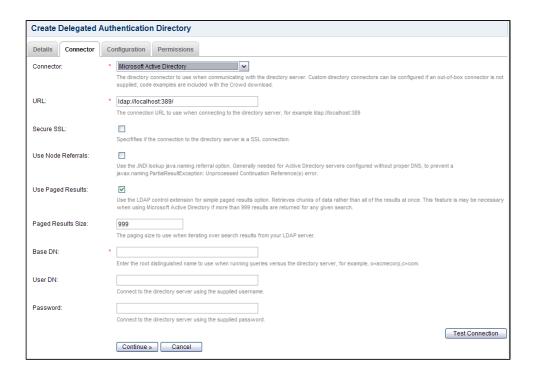
Screenshot 1: Directory details



Attribute	Description
Name	The name used to identify the directory within Crowd. For example: 'Chicago Employees' or 'Web Customers'.
Description	More information about this directory.
Active	Only deselect this if you wish to prevent all users within the directory from accessing all <u>mapped</u> <u>applications</u> .

Configuring Connector Details

Screenshot 2: Connector



Attribute	Description
Connector	The directory connector to use when communicating with the directory server.
URL	The connection URL to use when connecting to the directory server, e.g.: ldap://localhost:389, or port 636 for SSL.
Secure SSL	Specifies whether the connection to the directory server is an SSL connection.
Use Node Referrals	Use the JNDI lookup java.naming.referral option. Generally needed for Active Directory servers configured without proper DNS, to prevent a 'javax.naming.PartialResultException: Unprocessed Continuation Reference(s)' error.
Use Paged Results	Use the LDAP control extension for simple paging of search results. Retrieves chunks of data rather than all of the search results at once. This feature may be necessary when using Microsoft Active Directory if more than 999 results are returned for any given search.
Paged Results Size	Enter the desired page size i.e. the maximum number of search results to be returned per page, when paged results are enabled. Defaults to 999 results. This option is available from Crowd 1.1.1.
Base DN	Enter the root distinguished name to use when running queries versus the directory server, e.g.: o=acmecorp,c=com.

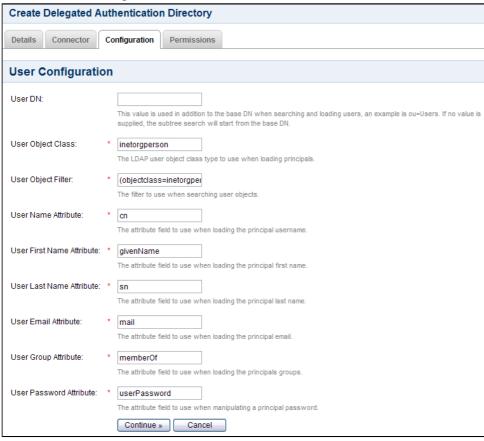
User DN	Distinguished name of the user that Crowd will use when connecting to the directory server.
Password	The password that Crowd will use when connecting to the directory server.

We have shown the settings for Active Directory. For details about the settings for your specific directory server, please see:

- 2.2.2.1 Microsoft Active Directory
- 2.2.2.2 SunONE
- 2.2.2.3 OpenLDAP
- 2.2.2.4 Apache Directory Server (ApacheDS)
- 2.2.2.5 Generic LDAP Directories

Configuring LDAP Object and Attribute Settings

Screenshot 3: Configuration



Attribute	Description
User DN	This value is used in addition to the base DN when searching and loading users. An example is ou=Users. If no value is supplied, the subtree search will start from the base DN.
User Object Class	This is the name of the class used for the LDAP user object.

User Object Filter	The filter to use when searching user objects.
User Name Attribute	The attribute field to use when loading the username.
User First Name Attribute	The attribute field to use when loading the user's first name.
User Last Name Attribute	The attribute field to use when loading the user's last name.
User Email Attribute	The attribute field to use when loading the user's email address.
User Group Attribute	The attribute field to use when loading the user's groups.
User Password Attribute	The attribute field to use when loading a user's password.

• Please refer to the notes on LDAP object structures in the page about LDAP connectors.

Next Steps

Once you have configured the directory's permissions, you have finished configuring your new directory.

Next steps will be:

- 1. Map the directory to the appropriate applications.
- 2. Consider how you would like to add your users to Crowd's Delegated Authentication directory. There are a few options:
 - Manually <u>add the users</u> to the Crowd directory.
 - Use Crowd's <u>Directory importer</u> to copy your LDAP users into your Delegated Authentication directory.
 - Let Crowd do it for you, at login time. If a user logs in successfully via LDAP authentication but
 does not yet exist in Crowd, Crowd will automatically add them to the Delegated Authentication
 directory. You will then need to add the user to any necessary groups, to allow them to access
 applications where group membership is required.
 - 4

The username must be the same in the Crowd Delegated Authentication directory and in the LDAP directory. Changing the username in LDAP will break the link to the Crowd Delegated Authentication directory.

RELATED TOPICS

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.3 Specifying Directory Permissions

This page last changed on Feb 18, 2008 by doflynn.

Directory permissions allow you to restrict the way in which directories can be used by mapped applications. Often, administrators need to limit applications to only being able to read — not modify — directory entity data, i.e. the users, groups and roles contained within the directory. You can achieve this by disabling the relevant directory permissions.

Directory permissions are defined at two levels:

- 1. Directory-level permissions are defined on the 'Permissions' tab of the 'View Directory' screen. These permissions apply to each application mapped to the directory, unless the application has its own application-level permissions.
- 2. Application-level directory permissions are defined on the 'Permissions' tab of the 'View Application' screen. If a permission is enabled at directory level, you can enable it for a specific application. For example, you could enable the 'Add User' permission on the 'Customers' directory in JIRA but disable the permission for Confluence.

Take a look at an example.

Disabling a directory-level permission will override any permissions enabled at application level. If a permission is enabled at application level and then subsequently disabled at directory level, the directory-level permission will apply. (The application-level permissions will be 'remembered' and will apply again if re-enabled at directory level.)



How do directory permissions affect the Crowd application (Crowd Administration Console)?

- If a particular permission is turned off at directory level, then no application can perform the related function not even the Crowd application. So, for example, if you disable the 'Remove User' permission for a directory, then the Crowd Administration Console will not allow you to delete a user from that directory.
- The Crowd application is not bound by application-level permissions.

Below, we tell you about directory-level permissions. You can also read more about <u>application-level</u> <u>directory permissions</u>.

Directory-Level Permissions

Permission	Description
Add Group	Allows applications to add groups to the directory.
Add User	Allows applications to add users to the directory.
Add Role	Allows applications to add roles to the directory.
Modify Group	Allows applications to modify groups in the directory.
Modify User	Allows applications to modify users in the directory.
Modify Role	Allows applications to modify roles in the directory.
Remove Group	Allows applications to delete groups from the directory.
Remove User	Allows applications to delete users from the directory.

	Consider carefully whether you allow the deletion of users, as some applications contain historical data, e.g. documents that the user has created. Read more.
Remove Role	Allows applications to delete roles from the directory.

When you add a new directory, all of its permissions are enabled by default.

To specify directory permissions,

- 1. Configure a new directory as described in <u>2.2 Adding a Directory</u> or select an existing directory from the <u>Directory Browser</u>.
- 2. Click the 'Permissions' tab. This will display a list of permissions as shown in the screenshot below.
- To enable a directory permission, select the corresponding check-box.
- To disable a directory permission, deselect the corresponding check-box.

Screenshot: 'Directory Permissions'



See Also

To control which users within a directory may access a <u>mapped application</u>, see <u>3.4 Specifying which Groups can access an Application</u>.

Related Topics

- 3.3.2 Specifying an Application's Directory Permissions
- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.4 Importing Users and Groups into a Directory

This page last changed on Feb 14, 2008 by smaddox.

Once you have <u>added a directory</u>, you can import groups and users into it from external user-stores or from another directory defined in Crowd. This can reduce the number of user-stores within your organisation, and give you a consolidated, centralised point of user management. Once you have imported users into a Crowd directory, you can manage them via the Crowd Administration Console (assuming the directory's <u>permissions</u> allow this).

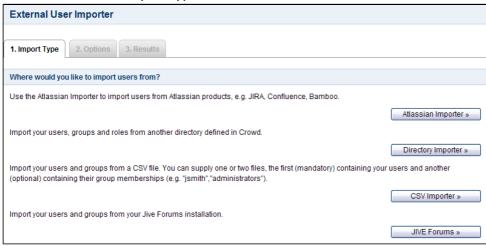
For example, your organisation might currently have user IDs for Atlassian JIRA users stored within JIRA's database, and user IDs for Jive Forums users stored within Jive's database. You could use Crowd to import all the user IDs from both places into Microsoft Active Directory.

You can import from different user-stores into a single Crowd directory, or into different Crowd directories, depending on your needs.

To import users into a directory,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the <u>User Browser</u>. Click the 'Import Users' link.
- 4. This will display the 'Import Type' screen (see below). Click the button corresponding to the type of user-store or file from which you want to import external users into Crowd:
 - 'Atlassian Importer' see <u>2.4.1 Importing Users from Atlassian Confluence</u>, <u>2.4.2 Importing Users from Atlassian JIRA</u> and <u>2.4.5 Importing Users from Atlassian Bamboo</u>
 - 'Directory Importer' see <u>2.4.6 Importing Users from One Crowd Directory into Another</u>
 - 'CSV Importer' see 2.4.4 Importing Users from CSV Files
 - 'JIVE' see 2.4.3 Importing Users from Jive Forums

Screenshot: 'Select Import Type'



Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory

- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files

 - 2.4.4.1 Configuring the CSV Importer
 2.4.4.2 Mapping CSV Fields to Crowd Fields
 2.4.4.3 Confirming the CSV Importer Configuration
 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.4.1 Importing Users from Atlassian Confluence

This page last changed on Feb 18, 2008 by doflynn.

If you have already been using Atlassian Confluence, and are now <u>configuring Confluence as a Crowd application</u>, you will probably want to import your existing Confluence users and groups into a Crowd directory.

It is recommended that you import your Confluence users into an <u>Internal Directory</u> that has its 'Password Encryption' set to 'ATLASSIAN-SHA1'. Otherwise, users' passwords will not be copied across to Crowd.



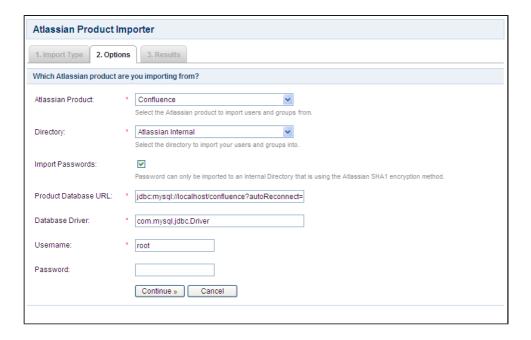
Before you begin

You will need to have installed the Confluence instance's database JDBC driver in the Crowd CLASS-PATH.

To import users and groups from Atlassian Confluence into a Crowd directory,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the Directory Browser. Click the 'Import Users' link.
- 4. This will display the 'Import Type' screen. Click the 'Atlassian Importer' button.
- 5. This will display the 'Options' screen. Complete the fields as follows:
 - 'Atlassian Product' Select 'Confluence'.
 - 'Directory' Select the directory that is mapped to the Confluence application.
 - 'Import Passwords' Select this checkbox if you wish to import the users' passwords from Confluence. You can only import passwords if the Crowd directory is using the 'Atlassian SHA1' encryption method.
 - 'Product Database URL' Type the URL of your Confluence instance's database. The exact syntax will depend on which database you are using; see <u>Database Configuration</u> in the Confluence Configuration Guide.
 - 'Database Driver' type the name of your Confluence instance's database JDBC driver (e.g. for MYSQL, type com.mysql.jdbc.Driver).
 - 'Username' Type the username of the database user that Crowd will use to login to your Confluence instance's database.
 - 'Password' Type the password of the database user Crowd will use to login to your Confluence instance's database.
 - 1 The import process will log in to the database, not into Confluence.
- 6. Click the 'Continue' button to import the users from your Confluence instance into your Crowd directory.
- 7. The 'Results' screen will be displayed, showing how many users and groups have been imported into your Crowd directory.
- 8. Click the 'Users' button to <u>view and manage</u> the imported users and groups via the Crowd Administration Console (assuming the directory's <u>permissions</u> allow this).

Screenshot: 'Import Confluence Users'



Next Step

To give the imported groups access to the <u>Confluence application</u>, see <u>3.4 Specifying which Groups can access an Application</u>.

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.4.2 Importing Users from Atlassian JIRA

This page last changed on Feb 19, 2008 by doflynn.

If you have already been using Atlassian JIRA, and are now <u>configuring JIRA as a Crowd application</u>, you will probably want to import your existing JIRA users and groups into a Crowd directory.

It is recommended that you import your JIRA users into an <u>Internal Directory</u> that has its 'Password Encryption' set to 'ATLASSIAN-SHA1'. Otherwise, users' passwords will not be copied across to Crowd.



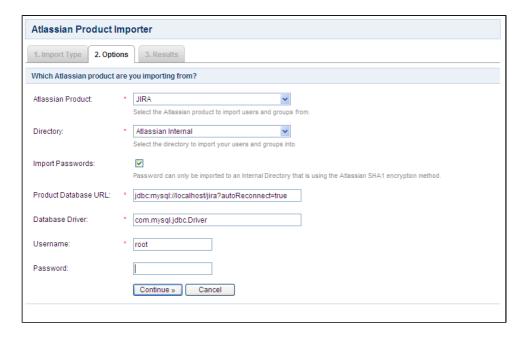
Before you begin

You will need to have installed the JIRA instance's database JDBC driver in the Crowd CLASS-PATH.

To import users and groups from Atlassian JIRA into a Crowd directory,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the <u>Directory Browser</u>. Click the 'Import Users' link.
- 4. This will display the 'Import Type' screen. Click the 'Atlassian Importer' button.
- 5. This will display the 'Options' screen. Complete the fields as follows:
 - 'Atlassian Product' Select 'JIRA'.
 - 'Directory' Select the directory that is <u>mapped</u> to the <u>JIRA application</u>.
 - 'Import Passwords' Select this checkbox if you wish to import the users' passwords from JIRA. You can only import passwords if the Crowd directory is using the 'Atlassian SHA1' encryption method.
 - 'Product Database URL' Type the URL of your JIRA instance's database. The exact syntax
 will depend on which database you are using; see <u>Connecting JIRA to a Database</u> in the JIRA
 Installation Guide.
 - 'Database Driver' Type the name of your JIRA instance's database JDBC driver (e.g. for MYSQL, type com.mysql.jdbc.Driver).
 - 'Username' Type the username of the database user that Crowd will use to log in to your JIRA instance's database.
 - 'Password' Type the password of the database user Crowd will use to log in to your JIRA instance's database.
 - The import process will log in to the database, not into JIRA.
- 6. Click the 'Continue' button to import the users from your JIRA instance into your Crowd directory.
- 7. The 'Results' screen will be displayed, showing how many users and groups have been imported into your Crowd directory.
- 8. Click the 'Users' button to <u>view and manage</u> the imported users and groups via the Crowd Administration Console (assuming the directory's <u>permissions</u> allow this).

Screenshot: 'Import JIRA Users'



Next Step

To give the imported groups access to the <u>JIRA application</u>, see <u>3.4 Specifying which Groups can access</u> an <u>Application</u>.

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.4.3 Importing Users from Jive Forums

This page last changed on Feb 19, 2008 by doflynn.

If you have already been using Jive Forums, and are now configuring Jive Forms as a Crowd application, you will probably want to import your existing Jive users and groups into a Crowd directory.



Before you begin:

The database drivers for the Jive Forums database will need to be on Crowd's classpath. To do this, simply copy the database driver JAR for your particular Jive database across to CROWD/apache-tomcat-5.5.20/common/lib and restart Crowd.

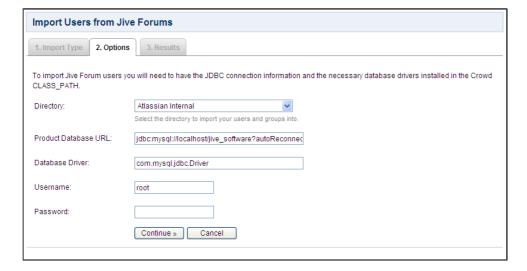
Note: the passwords for users in Jive will not be copied across to Crowd as they are stored as hashes in Jive's internal database.

To import users and groups from Jive Forums into a Crowd directory,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the <u>Directory Browser</u>. Click the 'Import Users' link.
- 4. This will display the 'Import Type' screen. Click the 'JIVE' button.
- 5. This will display the 'Options' screen. Complete the fields as follows:
 - 'Directory' select the directory that is <u>mapped</u> to the <u>Jive Forums application</u>.
 'DB URL' type the URL of Jive's database.

 - 'DB Driver' type the name of Jive's database JDBC driver.
 - 'Username' type the username of the database user that Crowd will use to login to Jive's database.
 - 'Password' type the password of the database user Crowd will use to login to Jive's database.
 - $foldsymbol{\circlearrowleft}$ The import process will log in to the database, not to Jive Forums.
- 6. Click the 'Continue' button to import the users from Jive Forums into your Crowd directory.
- 7. The 'Status' screen will be displayed, showing how many users and groups have been imported into your Crowd directory.
- 8. Click the 'Users' button to view and manage the imported users and groups via the Crowd Administration Console (assuming the directory's permissions allow this).

Screenshot: 'Import Jive Users'



Next Step

To give the imported groups access to the <u>Jive Forums application</u>, see <u>3.4 Specifying which Groups can</u> access an Application.

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files

 - 2.4.4.1 Configuring the CSV Importer2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.4.4 Importing Users from CSV Files

This page last changed on Feb 14, 2008 by smaddox.

You can copy users from an external directory or user base into Crowd via a CSV (comma-separated values) file. There are two phases involved:

- 1. Export your existing users and their group memberships from your external directory into a CSV file or files.
- 2. Import the users, groups and group memberships into a Crowd directory from the CSV files.
- The CSV importer is available with Crowd 1.1.1 and later.

Preparing your CSV Files

You will need:

- · a CSV file containing user information, and
- optionally, another CSV file containing group memberships.

Attached are simple examples of the CSV files:

- · Example user CSV file
- Example group membership CSV file

The CSV Importer's <u>'File Mappings' screen</u> allows you to match the CSV fields to Crowd's User and Group fields.

Formatting and location of the CSV files:

Requirement	Description
Location	The CSV files must be on the local drive (e.g. C:) of the Crowd server.
Supported attributes	The CSV Importer does not support custom attributes. The supported attributes are shown in the drop-down lists on the <u>'File Mappings' screen</u> .
Header row	The first row in each CSV file must be a header row. The CSV Importer will not import the information in the first row. The information in the first row is displayed in the column labelled 'CSV Header Row' on the 'File Mappings' screen
Delimiter	The fields in the CSV file must be separated by a single-character delimiter. The CSV Importer's 'Configuration' screen lets you tell Crowd which delimiter you have used.
Passwords	You will need to decide whether to import your passwords into Crowd. And if you do import the passwords, you must choose to import them as either encrypted or clear text. Check the password encryption in the directory you are exporting users from, and compare it with the encryption method of the Crowd directory you want to import the users into. You can use Crowd's <u>Directory Browser</u> to view the directory's configuration details, including the encryption method. The CSV Importer's <u>'Configuration'</u>

<u>screen</u> lets you tell the CSV Importer whether to encrypt the passwords.

To export information from your user directory into a CSV file,

- 1. Export the users from your external user directory or database into a CSV file. Your directory or user base should have an option to allow you to do this.
- 2. If you want to copy your existing group memberships into Crowd, export the groups and group memberships into another CSV file.

Importing the CSV Files into Crowd

Once you have prepared your CSV file(s), you can import the users and groups into a Crowd directory.

To import users and groups from CSV files,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the Directory Browser. Click the 'Import Users' link.
- 4. This will display the 'Import Type' screen. Click the 'CSV Importer' button.
- 5. This will display the 'Configuration' tab of the 'CSV Importer'.
- 6. Enter the details of the CSV files as described in 'Configuring the CSV Importer'.

Related Topics

- 2.4.4.1 Configuring the CSV Importer
- 2.4.4.2 Mapping CSV Fields to Crowd Fields
- 2.4.4.3 Confirming the CSV Importer Configuration
- 2.4.4.4 Viewing the Results of the Import

2.4.4.1 Configuring the CSV Importer

This page last changed on Feb 19, 2008 by doflynn.

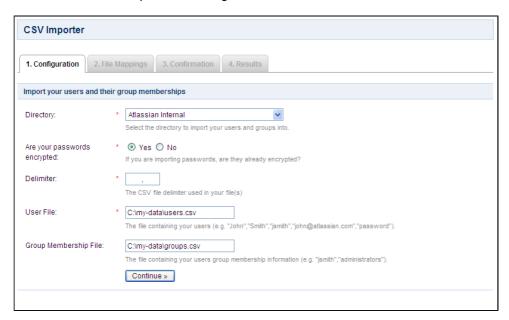
Once you have <u>started the CSV Importer</u>, the 'Configuration' screen allows you to specify information about the Crowd directory and CSV file(s) involved in the import.

Refer to information on preparing your CSV files.

To configure the CSV importer,

- 1. Start the CSV Importer.
- 2. This will display the 'Configuration' screen. Complete the fields as follows:
 - 'Directory' Select the Crowd user directory into which you want to import the users.
 - 'Are your passwords encrypted?' Select 'Yes' if the passwords in your CSV file are already
 encrypted. Crowd will not re-encrypt the passwords during the import. Select 'No' if the
 passwords in your CSV file are not encrypted. Crowd will encrypt the passwords during the
 import, using the encryption method of the Crowd directory you are importing into.
 - 'Delimiter' Type the single-character delimiter used to separate the fields in your CSV file(s).
 - 'User File' Type the location of the CSV file containing the users you wish to import.
 - 'Group Membership File' If you want to import groups and group memberships of your users, type the location of the CSV file containing the group membership information.
- 3. Click the 'Continue' button to map the CSV fields to the Crowd directory fields.

Screenshot: 'CSV Importer - Configuration'



Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory

- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files

 - 2.4.4.1 Configuring the CSV Importer
 2.4.4.2 Mapping CSV Fields to Crowd Fields
 2.4.4.3 Confirming the CSV Importer Configuration
 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.4.4.2 Mapping CSV Fields to Crowd Fields

This page last changed on Feb 19, 2008 by doflynn.

Once you have entered details on the <u>Configuration screen of the CSV Importer</u>, the 'File Mappings' screen allows you to match the CSV fields to the User and Group fields in Crowd. Crowd will use these mappings to import the information from the CSV file(s) into your Crowd directory.

Refer to information on preparing your CSV files.

The 'File Mappings' screen has two main sections:

- 'User Mappings' Use this section to map the fields in your 'User' CSV file.
- 'Group Mappings' Use this section to map the fields in your 'Group Membership' CSV file, if you have one. This section will only appear if you have specified a 'Group Membership File' on the Configuration screen.

Each section has the following columns:

Column	Description
CSV Header Row	This column shows the text from each field in the first row of your CSV file. The CSV Importer assumes that the first row is a header row.
Sample Row	This column shows the text from each field in the second row of your CSV file. This is done to help you with the mapping process.
Mapping	Each row in this column contains a drop-down list of the Crowd field names available for mapping. To map a Crowd field to a CSV field, select the appropriate Crowd field name from the drop-down list to match the CSV field shown in the 'CSV Header Row' column.

In the 'User Mappings' section, the 'Mapping' drop-down lists contain the following Crowd field names:

Crowd field	Description
First Name	Required. One of the rows on the screen must map this value to the CSV field containing the users' first names.
Last Name	Required. One of the rows on the screen must map this value to the CSV field containing the users' last names.
Email Address	Required. One of the rows on the screen must map this value to the CSV field containing the users' email addresses.
Username	Required. One of the rows on the screen must map this value to the CSV field containing the usernames.
Password	If your CSV file contains passwords, map this value to the CSV field containing the passwords.
None	Select 'None' if the CSV field displayed under 'CSV Header Row' is not to be mapped to any Crowd

fields. These CSV fields will not be imported into Crowd.)
---	---

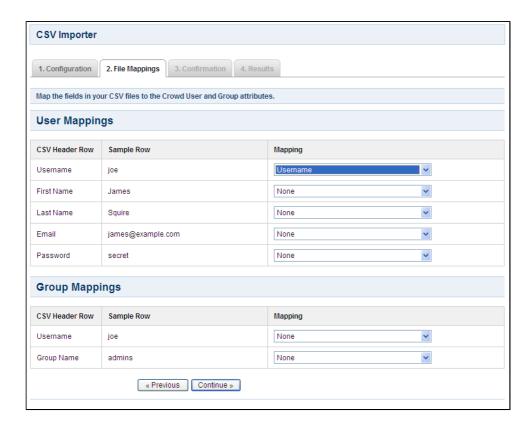
In the 'Group Mappings' section (if present), the 'Mapping' drop-down lists contain the following Crowd field names:

Crowd field	Description
Group Name	Required. One of the rows on the screen must map this value to the CSV field containing the names of the groups.
Username	Required. One of the rows on the screen must map this value to the CSV field containing the usernames.
None	Select 'None' if the CSV field displayed under 'CSV Header Row' is not to be mapped to any Crowd fields. These CSV fields will not be imported into Crowd.

To map the CSV fields to Crowd fields,

- 1. Start the CSV Importer.
- 2. Complete the details on the 'Configuration screen' and click the 'Continue' button.
- 3. This will display the 'File Mappings' screen. Complete the mappings in the 'User Mappings' section as follows:
 - In the 'CSV Header Row' column, find the field which contains your users' first names select 'First Name' from the drop-down list in the 'Mapping' column.
 - In the 'CSV Header Row' column, find the field which contains your users' last names select 'Last Name' from the drop-down list in the 'Mapping' column.
 - In the 'CSV Header Row' column, find the field which contains your users' email addresses select 'Email Address' from the drop-down list in the 'Mapping' column.
 - In the 'CSV Header Row' column, find the field which contains the usernames select 'Username' from the drop-down list in the 'Mapping' column.
 - In the 'CSV Header Row' column, find the field which contains your users' passwords select 'Password' from the drop-down list in the 'Mapping' column.
 - Select 'None' from the drop-down lists for all unmatched rows.
- 4. Complete the mappings in the 'Group Mappings' section (if present) as follows:
 - In the 'CSV Header Row' column, find the field which contains the group names select 'Group Name' from the drop-down list in the 'Mapping' column.
 - In the 'CSV Header Row' column, find the field which contains the usernames select 'Username' from the drop-down list in the 'Mapping' column.
 - Select 'None' from the drop-down lists for all unmatched rows.
- 5. Click the 'Continue' button to confirm the CSV configuration.

Screenshot: 'CSV Importer - File Mappings'



Related Topics

- 2.4.4.1 Configuring the CSV Importer
- 2.4.4.2 Mapping CSV Fields to Crowd Fields
- 2.4.4.3 Confirming the CSV Importer Configuration
- 2.4.4.4 Viewing the Results of the Import

2.4.4.3 Confirming the CSV Importer Configuration

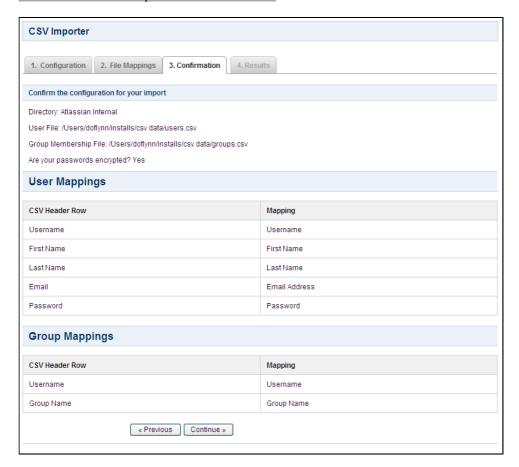
This page last changed on Feb 19, 2008 by doflynn.

The 'Confirmation' screen allows you to review your <u>configuration</u> and <u>mapping</u> before performing the <u>CSV import</u>.

To confirm the CSV configuration and mapping,

- 1. Review the information shown on the 'Confirmation' screen.
- 2. Click the 'Continue' button to import the users from your CSV file into your Crowd directory.
- 3. Once the import is complete, Crowd will display the 'Results' screen.

Screenshot: 'CSV Importer - Confirmation'



Related Topics

- 2.4.4.1 Configuring the CSV Importer
- 2.4.4.2 Mapping CSV Fields to Crowd Fields
- 2.4.4.3 Confirming the CSV Importer Configuration
- 2.4.4.4 Viewing the Results of the Import

2.4.4.4 Viewing the Results of the Import

This page last changed on Feb 19, 2008 by doflynn.

The 'Results' screen shows the outcome of the CSV import.



The CSV Importer adds to the Crowd directory, but does not update or delete existing information:

- If the Username already exists in Crowd, the CSV Importer does not overwrite the information for that user even if the Username exists in the CSV file with different user information.
- The CSV Importer does not remove users from Crowd.
- If your 'Group Membership' CSV file contains additional group(s) for a user, the additional group(s) and group membership(s) will be imported.
- Existing group memberships will not be changed or removed.
- The 'Results' screen will show number of duplicate usernames in the CSV file which were ignored i.e. not imported.
- The 'Results' screen will show number of duplicate group names in the CSV file which were ignored i.e. not imported.

Screenshot: 'CSV Importer - Results'



Related Topics

- 2.4.4.1 Configuring the CSV Importer
- 2.4.4.2 Mapping CSV Fields to Crowd Fields
- 2.4.4.3 Confirming the CSV Importer Configuration
- 2.4.4.4 Viewing the Results of the Import

2.4.5 Importing Users from Atlassian Bamboo

This page last changed on Feb 19, 2008 by doflynn.

If you have already been using Atlassian <u>Bamboo</u>, and are now <u>configuring Bamboo</u> as a <u>Crowd application</u>, you will probably want to import your existing Bamboo users and groups into a Crowd directory.

We recommend that you import your Bamboo users into an <u>internal Crowd directory</u> that has its 'Password Encryption' set to 'ATLASSIAN-SHA1'. Otherwise, users' passwords will not be copied across to Crowd.



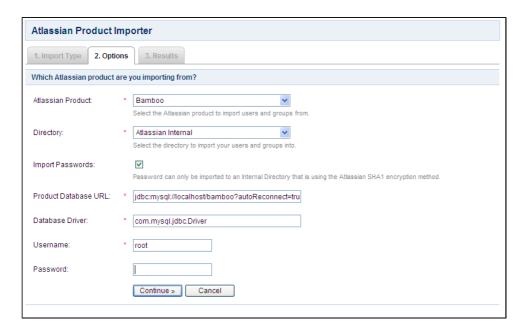
Before you begin

You will need to have installed the Bamboo instance's database JDBC driver in the Crowd CLASS-PATH.

To import users and groups from Atlassian Bamboo into a Crowd directory,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Directories' link in the top navigation bar.
- 3. This will display the <u>Directory Browser</u>. Click the 'Import Users' link.
- 4. This will display the 'Import Type' screen. Click the 'Atlassian Importer' button.
- 5. This will display the 'Options' screen. Complete the fields as follows:
 - 'Atlassian Product' Select 'Bamboo'.
 - 'Directory' Select the directory that you have mapped to the Bamboo application in Crowd.
 - 'Import Passwords' Select this checkbox if you wish to import the users' passwords from Bamboo. You can only import passwords if the Crowd directory is using the 'Atlassian SHA1' encryption method.
 - 'Product Database URL' Type the URL of your Bamboo instance's database. The exact syntax will depend on which database you are using. See <u>Database Configuration</u> in the Bamboo Installation Guide.
 - 'Database Driver' Type the name of your Bamboo instance's database JDBC driver (e.g. for MYSQL, type com.mysql.jdbc.Driver).
 - 'Username' Type the username of the database user that Crowd will use to log in to your Bamboo instance's database.
 - 'Password' Type the password of the database user Crowd will use to log in to your Bamboo instance's database.
 - 1 The import process will log in to the database, not into Bamboo.
- 6. Click the 'Continue' button to import the users from your Bamboo instance into your Crowd directory.
- 7. The 'Results' screen will be displayed, showing how many users and groups have been imported into your Crowd directory.
- 8. Click the 'Users' button to <u>view and manage</u> the imported users and groups via the Crowd Administration Console (assuming the directory's <u>permissions</u> allow this).

Screenshot: 'Import Bamboo Users'



Next Step

To give the imported groups access to the <u>Bamboo application</u>, see <u>3.4 Specifying which Groups can access an Application</u>.

Related Topics

- 2.1 Using the Directory Browser
- · 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

2.4.6 Importing Users from One Crowd Directory into Another

This page last changed on Feb 14, 2008 by smaddox.

Once you have <u>added a directory</u>, you can import users, groups and roles into it from an external system or from another directory defined in Crowd. To learn about importing from external systems, refer to <u>2.4 Importing Users and Groups into a Directory</u>. Below we tell you how to import from one Crowd directory to another.

For example, you can copy users, groups, roles and memberships:

- From an LDAP directory to an internal Crowd directory, or vice versa.
- From one internal Crowd directory to another internal Crowd directory.
- From an LDAP directory to a Delegated Authentication directory, or vice versa.
- From a <u>custom directory</u> to an <u>internal Crowd directory</u>, or vice versa.
- · And so on.

1 The 'Password Encryption' method must be the same in both directories, otherwise you will not be able to copy the users across.

The 'source directory' is the directory you want to copy users, groups and roles from. The 'destination directory' is where you want to copy them to. Both directories must be defined in Crowd before you start the import process.

To import users, groups and roles from one Crowd directory into another,

- 1. Log in to the Crowd Administration Console.
- 2. If not already defined, add the source directory to Crowd.
- 3. If not already defined, add the destination directory to Crowd.
- 4. Click the 'Directories' link in the top navigation bar.
- 5. This will display the <u>Directory Browser</u>. Click the 'Import Users' link.
- 6. This will display the 'Import Type' screen. Click the 'Directory Importer' button.
- 7. This will display the 'Options' screen, shown below. Complete the fields as follows:
 - 'Source Directory' Select the directory that contains the users, groups and roles you want to copy.
 - 'Destination Directory' Select the directory that you want to copy the users, groups and roles into.
 - 'Overwrite Destination Directory' Tick the box if you want to delete and replace all the details and memberships for any user who exists in both source and destination directories:
 - If the checkbox is empty, Crowd will not update the user details for that username in the destination directory, but will add any new group or role memberships for that username.
 - If the checkbox is ticked, Crowd will remove all the details and memberships for that username from the destination directory and replace them with the details and memberships from the source directory.
- 8. Click the 'Continue' button.
- 9. The 'Confirmation' screen will be displayed. Check the details and click the 'Continue' button.
- 10. The 'Results' screen will be displayed, showing how many users, groups and roles have been imported into your Crowd directory.

If the import of any users, groups or roles failed, please check the log files to find out why.

Screenshot: 'Import users from one directory to another'



Next Steps

To allow the users to log in to the integrated application(s) via Crowd:

- Map the directory to the application(s), if not already done. See 3.3 Mapping a Directory to an Application.
- Give the imported groups access to the application(s). See <u>3.4 Specifying which Groups can access</u> an <u>Application</u>.

Related Topics

- 2.1 Using the Directory Browser
- 2.2 Adding a Directory
 - 2.2.1 Configuring an Internal Directory
 - 2.2.2 Configuring an LDAP Directory Connector
 - 2.2.2.1 Microsoft Active Directory
 - Configuring an SSL Certificate for Microsoft Active Directory
 - 2.2.2.2 SunONE
 - 2.2.2.3 OpenLDAP
 - 2.2.2.4 Apache Directory Server (ApacheDS)
 - 2.2.2.5 Generic LDAP Directories
 - 2.2.3 Configuring a Custom Directory Connector
 - 2.2.4 Configuring a Delegated Authentication Directory
- 2.3 Specifying Directory Permissions
- 2.4 Importing Users and Groups into a Directory
 - 2.4.1 Importing Users from Atlassian Confluence
 - 2.4.2 Importing Users from Atlassian JIRA
 - 2.4.3 Importing Users from Jive Forums
 - 2.4.4 Importing Users from CSV Files
 - 2.4.4.1 Configuring the CSV Importer
 - 2.4.4.2 Mapping CSV Fields to Crowd Fields
 - 2.4.4.3 Confirming the CSV Importer Configuration
 - 2.4.4.4 Viewing the Results of the Import
 - 2.4.5 Importing Users from Atlassian Bamboo
 - 2.4.6 Importing Users from One Crowd Directory into Another

3. Managing Applications

This page last changed on Mar 30, 2007 by rosie@atlassian.com.

Crowd integrates and provisions applications. Once <u>defined</u>, an application is <u>mapped</u> to a directory(s), whose users are then <u>granted access</u> to the application. Note that an application can only communicate with Crowd when the application uses a known <u>host address</u>.

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.1 Using the Application Browser

This page last changed on Feb 27, 2008 by smaddox.

About Applications

Crowd integrates and provisions applications. Once <u>defined</u>, an application is <u>mapped</u> to a directory(s), whose users are then <u>granted access</u> to the application. Note that an application can only communicate with Crowd when the application uses a known <u>host address</u>.

Default Applications

When you first use the Application Browser, you will see three default applications:

- 'crowd' this is the <u>Crowd Administration Console</u>, i.e. the Crowd Administration Console is itself a web application that is provisioned by Crowd. The 'crowd' application is mapped to the default directory which you defined during <u>setup</u>, and can be accessed by members of the <u>crowd-administrators</u> group.
- 'crowd-openid-server' this is the CrowdID application which you (optionally) configured during
 setup. It allows you to provide OpenID services to your users. For details please see the <u>CrowdID</u>
 Administration <u>Guide</u> and the <u>CrowdID User Guide</u>. To access CrowdID, go to http://localhost:8095/openidserver.
- 'demo' this is the 'demo' application which you (optionally) configured during <u>setup</u>. Its main purpose is to provide an example of how to integrate <u>custom applications</u> with Crowd. To access the 'demo' application, go to http://localhost:8095/demo.

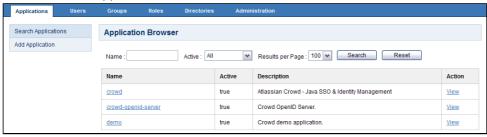
About the Application Browser

The Application Browser allows you to view and search for integrated applications.

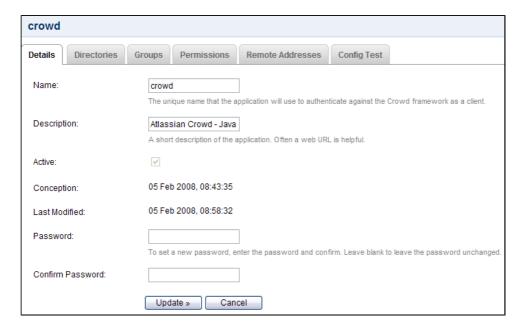
To use the Application Browser,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications' tab in the top navigation bar.
- 3. This will display the Application Browser, showing all the applications that exist in your Crowd system. You can refine your search by specifying a 'Name' (note that this is case sensitive), or 'Active'/Inactive' applications.
- 4. To view/edit an application's details, click the 'View' link next to the specific application.

Screenshot 1: 'Application Browser'



Screenshot 2: 'View Application'



RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.2 Adding an Application

This page last changed on Feb 27, 2008 by smaddox.

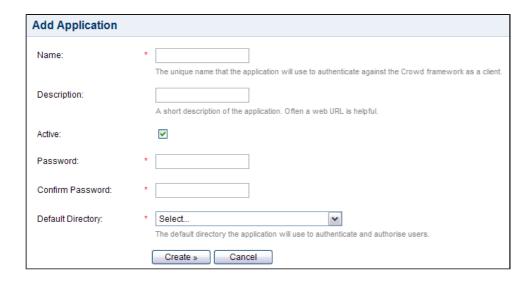
There are two overall steps to integrating an application with Crowd:

- Step 1. Configure Crowd to talk to the application that is, add the application to Crowd via the Crowd Administration Console (see below). The application will then be allowed to authenticate against Crowd.
- Step 2. Configure the application to talk to Crowd that is, install the Crowd client into the application and configure the application to forward users' authentication and security requests to Crowd. Please see details for your specific application:
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application

To add an application to Crowd,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications' tab in the top navigation bar.
- 3. This will display the Application Browser. Click 'Add Application' in the left-hand menu.
- 4. This will display the 'Add Application' screen (see screenshot). Complete the fields as described in the table below. Note that you will need to select a suitable <u>directory</u> to contain the application's users.
- 5. Click the 'Create' button to create the application. A number of tabs will now be displayed.
- 6. To choose which users within the directory may authenticate against the application, either:
 - Click the 'Groups' tab and select one or more groups of users, then click the 'Add' button; OR
 - Click the 'Directories' tab and change 'Allow all to authenticate' to 'True'. (The default is 'False'.)
- 7. Click the 'Permissions' tab and set the directory permissions for the application.
- 8. Click the 'Remote Addresses' tab and specify the <u>IP address or hostname of the application</u>. (The default is 'localhost'.)
- 9. Click the 'Update' button to save your changes.
- 10. If you wish, you can click the 'Config Test' tab and verify that a user can log in to the application.

Screenshot: 'Add Application'



Attribute	Description
Name	The username which the application will use when it authenticates against the Crowd framework as a client. This value must be unique, i.e. it cannot be used by more than one application client.
Description	A short description of the application. Note: A web URL is often helpful.
Active	Only deselect this if you wish to prevent all users (from all directories) from accessing this application.
Password	The password which the application will use when it authenticates against the Crowd framework as a client.
Confirm Password	Retype the same password as above, to confirm it.
Default Directory	A directory that contains relevant users. Note: Additional directories can be <u>added later</u> .

Next Steps

After adding an application, you may want to:

- map additional directories to the application, and
- set each directory's permissions for the application.

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd

- 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
- 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
- Integrating AppFuse a Crowd-Acegi Integration Tutorial
 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.2.01 Integrating Crowd with Apache

This page last changed on Feb 24, 2008 by areid.

Crowd provides a number of modules that allow you to configure Crowd to authenticate HTTP Authentication requests made to an <u>Apache</u> web server.

The following features are provided:

- Use Crowd to password-protect resources on your website.
- Configure website locations to restrict access to specific Crowd groups or users.

Note: These instructions assume some Unix system and Apache configuration knowledge.



Using Subversion under Apache?

Crowd's Subversion connector allows you to password-protect a Subversion repository and provide fine grained access by group or user. Read more.

Prerequisites

- Apache web server version 2.0 or above with the mod_perl module installed and configured.
- · The following third-party Perl modules:
 - SOAP::Lite (v0.69 or greater required)
 - ° <u>Digest::SHA1</u>
 - ° <u>Error</u>
 - ° <u>Cache::Cache</u>

Installation and Configuration

The following instructions are for Unix systems. If you're running Apache on Windows, see the <u>notes</u> below.

Installing the Third-Party Perl Modules

Download the required Perl modules from CPAN using the links above and install them as follows:

```
tar xvzf Cache-Cache-1.05.tar.gz
cd Cache-Cache-1.05
perl Makefile.PL
make
make install
```

See http://search.cpan.org/~jhi/perl-5.8.0/pod/perlmodinstall.pod for a detailed description of the various ways of installing Perl modules on your system.

Installing the Crowd Perl Modules

1. Download the three Crowd module files attached to this page:

Attached file	Description
Crowd-Apache-Connector-1.2.1.zip	Crowd authentication, authorisation and perl module for Apache 2

2. Extract the Crowd-Apache-Connection archive file and install the three modules using the same procedure as for the third party modules.

```
unzip Crowd-Apache-Connector-1.2.1.zip
cd Atlassian-Crowd-1.2.1/
```

```
perl Makefile.PL
make
make install
cd ../Apache-CrowdAuth-1.2.1/
perl Makefile.PL
make
make install
cd ../Apache-CrowdAuthz-1.2.1/
perl Makefile.PL
make
make install
```

Configuring Apache

Ensure that mod_perl is enabled. Your Apache config file should contain a line like the following:

```
LoadModule perl_module modules/mod_perl.so
```

Many common distributions of Apache come with mod_perl preconfigured.

Configuring Authentication

To tell Apache to use Crowd to authenticate requests for a particular location, edit the Apache config file to add the following commands to a <Location> or <Directory> section.

Command	Explanation
AuthName crowd	Defines the <u>realm</u> of the authentication. This information is typically provided to the user in the dialog box popped up by their browser
AuthType Basic	Tells apache to use basic authentication
PerlAuthenHandler Apache::CrowdAuth	Tells Apache to delegate authentication to the CrowdAuth module

PerlSetVar CrowdAppName	Set the <u>Application</u> Apache should authenticate as
PerlSetVar CrowdAppPassword	Set the password for the Application
PerlSetVar CrowdSOAPURL	The URL of the Crowd SOAP service
PerlSetVar CrowdCacheEnabled	[optional] Controls whether CrowdAuth caches authentications locally to improve performance. Set to "on" or "off". Caching is "on" by default
PerlSetVar CrowdCacheLocation	[optional] The directory in which CrowdAuth's local cache is stored. Defaults to /tmp/FileCache if not set.
PerlSetVar CrowdCacheExpiry	[optional] The time (in seconds) before cached authentications in CrowdAuth's local cache expire. Defaults to 300 seconds (5 minutes)
require valid-user	Tells Apache that clients must provide a valid username/password to access the location

Configuring Authorisation

If you want to restrict access to a certain Directory or Location in your Apache configuration to a subset of Crowd users and/or groups, add the following lines to your configuration:

```
<Location>
.
.
.
.
.
PerlAuthzHandler Apache::CrowdAuthz

PerlSetVar CrowdAllowedUsers johnh,kevinr
PerlSetVar CrowdAllowedGroups developers,crowd-administrators
.
.
.

.

.

./Location>
```

Command	Explanation
PerlAuthzHandler Apache::CrowdAuthz	Tells Apache to use the Apache::CrowdAuthz} for authorisation
PerlSetVar CrowdAllowedUsers johnh, kevinr	Allow only the users johnh or kevinr to access the location
PerlSetVar CrowdAllowedGroups developers,crowd-administrators	Allow only members of the developers or crowdadministrators groups to access the location

Note:

- Typically, only one of the CrowdAllowedUsers or CrowdAllowedGroups would be needed for a particular location. You can define both. If you do, then access is granted if either is satisfied.
- If the CrowdCacheEnabled setting is on, then authorisation checks are cached in order to increase performance. This means that changes to group membership in Crowd may not be reflected immediately in user access.

Troubleshooting

The CrowdAuth module logs detailed output if the Apache <u>LogLevel</u> parameter is set to info or debug. This can be useful in diagnosing problems.

Apache Log Error Message	Possible Cause and Next Steps
CrowdAppName or CrowdAppPassword is not defined	One or both of the CrowdAppName or CrowdAppPassword parameters is missing from the Apache config file.
Failed to authenticate application	The attempt to authenticate the application with Crowd failed. Check the values of the CrowdAppName Or CrowdAppPassword parameters.
Failed to authenticate principal	Failed to authenticate a username/password pair provided by the client. This may just mean that the username or password supplied is incorrect. Note that CrowdAuth won't log successful authentications unless the LogLevel is info or above.
User token not found in SOAP response for user <user></user>	Internal SOAP protocol error.
error 500at CrowdAuth.pm	Indicates that Apache can't connect to the Crowd SOAP service.
error 404at CrowdAuth.pm	Indicates that the URL used to connect to the Crowd SOAP service is incorrect. Check the value of the CrowdSOAPURL parameter.
<pre>failed to resolve handler</pre>	The CrowdAuth.pm file isn't located on the Perl include path (or it has incorrect permissions).
failed to resolve handler `Apache::CrowdAuth': Can't locate SOAP/ Lite.pm	The SOAP:Lite module hasn't been installed.
Can't locate object method "call" via package "SOAP::SOM" at	This message indicates a missing or old installation of SOAP::Lite. Try installing (or reinstalling) version 0.69 SOAP:Lite. On Windows, you will get this error if you haven't manually upgraded the SOAP::Lite ppm (see below)

Installing Perl, mod_perl and Perl Modules on Windows

Setting up <code>CrowdAuth</code> on an Apache instance running on Windows requires that some things be done differently. The following instructions assume you are using ActivePerl as your Perl environment.

- If you don't already have a Perl interpreter installed, you'll need one. The following instructions assume an install of ActivePerl.
- Windows installations of Apache are less likely to come with mod_perl pre-installed. A Win32 version of mod_perl in PPM format is available here.
- The .tar.gz format used to distribute CrowdAuth (and other modules) is supported by most modern Windows archiving utilities (WinZip, for example).
- The make utility used to build the Perl modules is not part of a Windows. nmake, Microsoft's equivalent, is available as a self-extracting archive here.

Installing Perl Modules on Windows

The required modules (Digest::SHA1, Error, Cache::FileCache, SOAP:Lite) are available through the Perl Package Manager utility.

CrowdAuth needs a newer version of SOAP::Lite than is supplied with ActivePerl (0.69 vs 0.55). A prebuilt ppm of the correct version can be installed from the University of Winnipeg's repository using the following command:

C:\>ppm install http://theoryx5.uwinnipeg.ca/ppms/SOAP-Lite.ppd

Installing Apache::CrowdAuth on Windows

```
Extract Apache-CrowdAuth-0.06.zip using Winzip or equivalent... cd Apache-CrowdAuth-0.06 perl Makefile.PL nmake nmake install
```

When editing the httpd.conf file and adding the mod_perl.so module to Apache, you may need to add the following line above the LoadModule line:

```
LoadFile "C:/Perl/bin/perl58.dll"
LoadModule perl_module modules/mod_perl.so
```

This LoadFile line points to the per158.dll in your Perl install directory.

Related Topics

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.2.02 Integrating Crowd with Subversion

This page last changed on Dec 19, 2007 by areid.



Install the Crowd Apache connector first

To use the Subversion connector, you will need to have the <u>Crowd Apache Connector</u> already installed.

Crowd's Subversion connector allows you to password-protect a Subversion repository and provide fine grained access by group or user.

Prerequisites

• Crowd Apache Connector.

Configuring Crowd Authentication for Subversion

If you are using Apache to manage access to a Subversion repository (<u>instructions</u>), and are using <u>Crowd to manage the Subversion authentication</u>, then you can use the same configuration method to delegate user authentication to Crowd.

Example:

```
<Location /svn>
# Uncomment this to enable the repository,
DAV svn
# Set this to the path to your repository
SVNPath /var/lib/svn
AuthName crowd
AuthType Basic
PerlAuthenHandler Apache::CrowdAuth
PerlSetVar CrowdAppName subversion
PerlSetVar CrowdAppPassword svn
PerlSetVar CrowdSOAPURL http://localhost:8095/crowd/services/SecurityServer
require valid-user
# The following three lines allow anonymous read, but make
# committers authenticate themselves.
<LimitExcept GET PROPFIND OPTIONS REPORT>
Require valid-user
</LimitExcept>
</Location>
```

Note that Apache will have to be restarted before any changes to its config files will take effect.

Configuring Crowd Authorisation for Subversion

To restrict Subversion repository access to certain groups and/or users, you can add the Apache::CrowdAuthz module and the CrowdAllowedGroups and CrowdAllowedUsers directives (described here).

For more fine-grained access, the CrowdAuthzSVNAccessFile directive is provided. For example:

```
PerlAuthzHandler Apache::CrowdAuthz
PerlSetVar CrowdAuthzSVNAccessFile /etc/apache2/dav_svn.authz
```

The CrowdAuthzSVNAccessFile setting lets you define a file where you can configure group and user access on a per-directory level.

The format of the file is the same as that used by Subversion's own authorisation module, mod_authz_svn. Here's a small example:

```
# Everyone has read access to the repository
# (unless modified below).
[/]
# Members of the bazdevelopers group can
# read and write to the BazWord project
[/BazWord]
@bazdevelopers = rw
# Members of the foodevelopers group can read and write
# to the FooCalc project
[/FooCalc]
@foodevelopers = rw
# Members of foodevelopers can read the branches
# directory but only user juliag (the release manager)
# can write to this path
[/FooCalc/branches]
juliag = rw
@foodevelopers = r
# peterc is a contractor, so he's denied all access to the statistics
# module (which is full of trade secrets).
[/FooCalc/trunk/statistics]
peterc =
```

Some notes:

- The format is a series of one or more repository paths (minus the leading URL) followed by one or more group or user directives for each path.
- You don't have to include every single path. If an exact path match isn't found, the settings for the nearest parent directory are used.
- A user or group can be set to one of:
 - ° rw: read and write access.
 - ° r: read-only access.
 - ° <blank>: no access.
- · Group names are indicated by a leading '@' character.
- Lines starting with a '#' are comments.
- Note that the [groups] section of the file described in the Subversion docs is ignored by Apache::CrowdAuthz as group memberships come from Crowd.
- Don't prefix the paths in the file with the repository name (e.g. '[calc:/foo]') (see note on SVNParentPath below).
- If you specify a CrowdAuthzSVNAccessFile as well as one or both of CrowdAllowedGroups and CrowdAllowedUsers, only the CrowdAuthzSVNAccessFile is used for authorisation.



SVNParentPath Not Supported

Subversion provides the <u>SVNParentPath</u> directive, which allows multiple repositories in the same directory to use the same URL. The Crowd Apache integration modules do not support the use of SVNParentPath.

For a detailed description of this file format, see the <u>Subversion documentation</u>.

Related Topics

• 3.1 Using the Application Browser

- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.2.03 Integrating Crowd with Atlassian Confluence

This page last changed on Feb 28, 2008 by smaddox.

Atlassian's popular <u>Confluence wiki</u> can quickly be configured to use the atlassian-user libraries to link in single or multiple directory servers through <u>Crowd</u>.

Currently Crowd supports centralised authentication and single sign-on (SSO) for Confluence versions 2.6.2 and later with Crowd 1.2 and later.

If you are using NTLM for Windows authentication, you may want to read about configuring Crowd's Confluence NTLM plugin for single sign on.

Prerequisites

- 1. Download and install Crowd. Refer to the <u>Crowd installation guide</u> for detailed information on how to do this. We will refer to the Crowd root folder as CROWD.
- 2. Download and install Confluence (version 2.6.2 or later). Refer to the <u>Confluence installation</u> <u>guide</u> for detailed information on how to do this. We will refer to the Confluence root folder as CONFLUENCE. For the purposes of this document, we will assume that the Standalone (ie. the easier) installation method of Confluence has been used. If you need to install Confluence as an EAR/WAR, simply explode the EAR/WAR and make the necessary changes as described below, and repackage the EAR/WAR.
- 3. After Confluence is set up, make sure Confluence is not running when you begin the integration process described below.

Step 1. Configuring Crowd to Talk to Confluence

1.1 Prepare Crowd's Directories/Groups/Users for Confluence

The Confluence application will need to authenticate users against a directory configured in Crowd. You will need to set up a directory in Crowd for Confluence. For more information on how to do this, see 2.2 Adding a Directory. We will assume that the directory is called Confluence Directory for the rest of this document. It is possible to assign more than one directory for an application, but for the purposes of this example, we will use Confluence Directory to house Confluence users.

Confluence also requires particular groups to exist in the directory in order to authenticate users. You will need to create two groups in the Confluence Directory:

- 1. confluence-users
- 2. confluence-administrators

See the documentation on Creating Groups for more information on how to define these groups.

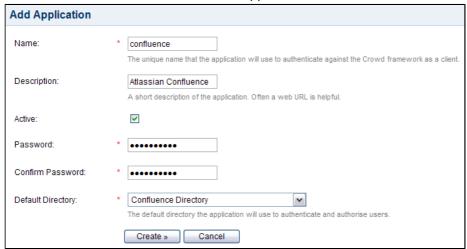
You also need to ensure that the Confluence Directory contains at least one user who is a member of both groups. Choose one of the two options below:

- If you have an existing Confluence deployment and would like to import existing users and groups into Crowd, use the Confluence Importer tool by navigating to Users > Import Users > Atlassian Importer. Select 'Confluence' as the Atlassian product, and the Confluence Directory as the directory into which Confluence users will be imported. For details please see 2.4.1 Importing Users from Atlassian Confluence.
 If you are going to import users into Crowd, you need to do this now before you proceed any further.
 OR:
- If you don't wish to import your Confluence users, make sure you use Crowd to create at least one user in the Confluence Directory and assign them to both the confluence-users and the confluence-administrators group. The Crowd documentation has more information on creating groups, creating users and assigning users to groups.

1.2 Define the Confluence Application in Crowd

Crowd needs to be aware that the Confluence application will be making authentication requests to Crowd. We need to add the Confluence application to Crowd and map it to the Confluence Directory:

- 1. Log in to the Crowd Administration Console and navigate to Applications > Add Application.
- 2. Fill out the form to add the Confluence application:

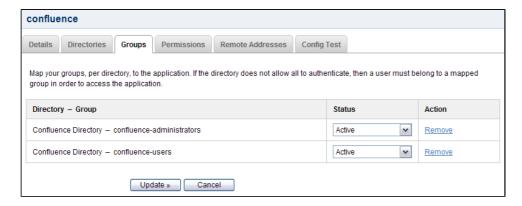


Attribute	Description
Name	The username which the application will use when it authenticates against the Crowd framework as a client. This value must be unique, i.e. it cannot be used by more than one application client.
Description	A short description of the application. Note: A web URL is often helpful.
Active	Only deselect this if you wish to prevent all users (from all directories) from accessing this application.
Password	The password which the application will use when it authenticates against the Crowd framework as a client.
Confirm Password	Retype the same password as above, to confirm it.
Default Directory	A directory that contains relevant users. Note: Additional directories can be <u>added later</u> .

1 The Name and Password values must match the application.name and application.password that you set in the CONFLUENCE/confluence/WEB-INF/classes/crowd.properties (see Step 2 below).

1.3 Specify which Users can Log In to Confluence

Now that Crowd is aware of the Confluence application, Crowd needs to know which users can authenticate (log in) to Confluence via Crowd. You can either allow entire directories to authenticate, or just particular groups within the directories. In our example, we will allow the confluence-users and confluence-administrators groups within the Confluence Directory to authenticate:



For details please see 3.4 Specifying which Groups can access an Application.

1.4 Specify the Address from which Confluence can Log In to Crowd

Please see 3.5 Specifying an Application's Address or Hostname. Please note:

- If Confluence is on a different host to Crowd:

 If you are running Confluence on a different host to Crowd, you will need to modify the permissible hosts via the Remote Addresses tab. This lists the hosts/IP addresses that are allowed to authenticate to Crowd. If Confluence is remote to Crowd, add the IP address of your Confluence server and ensure the "Status" field is set to "true". Remove the entry for localhost.
- If Confluence is on the same host as Crowd:

 By default, when you add an application, localhost is a permissible foreign host. However, you will also need to manually add the IP address 127.0.0.1, because incoming requests to Crowd from Confluence (both on the same, local, host) may be from the host 127.0.0.1 and not localhost. Crowd does not do a DNS lookup of the hostname. Instead, it compares the values themselves. Ensure the "Status" field is set to "true".

Step 2. Configuring Confluence to Talk to Crowd

2.1 Install the Crowd Client Library into Confluence

Confluence needs Crowd's client library and configuration file in order to be able to delegate user authentication to the Crowd application. As stated earlier, we will modify the Confluence application by editing the standalone application, which is an exploded WAR stored in CONFLUENCE/confluence.

1. Copy the Crowd client library and configuration file to Confluence:

Copy From	Сору То
CROWD/client/crowd-integration-client-X.X.X.jar	CONFLUENCE/confluence/WEB-INF/lib
CROWD/client/conf/crowd.properties	CONFLUENCE/confluence/WEB-INF/classes

There is no need to copy across anything from <code>CROWD/client/lib</code>. All the required libraries from that directory already exist in Confluence versions 2.3 and later.

Confluence 2.5.6 to 2.6.1 is now incompatible with Crowd 1.2. We recommend that you upgrade to Confluence 2.6.2 or later.

If you can not upgrade your Confluence instance, you will need to remove the following file from Confluence's CONFLUENCE-HOME/WEB-INF/lib/seraph-0.X.X.jar and replace it with the following:

http://repository.atlassian.com/maven2/com/atlassian/seraph/atlassian-seraph/0.9/atlassian-seraph-0.9.jar

2. Edit CONFLUENCE/confluence/WEB-INF/classes/crowd.properties. Change the following properties:

Key	Value
application.name	confluence
application.password	Set a password.
crowd.server.url	http://localhost:8095/crowd/services/
session.validationinterval	This is the number of minutes between validation requests, when Crowd validates whether the user is logged in to or out of the Crowd SSO server. Set this value to 0 if you want authentication checks to occur on each request. Otherwise set to the required number of minutes between validation requests. Setting this value to 1 or higher will increase the performance of Crowd's integration.

If your Crowd server's port is configured differently from the default (i.e. 8095), set it accordingly. The application.name and application.password must match the Name and Password that you specified when defining the application in Crowd (see Step 1 above). Confluence does not use any of the other attributes of the crowd.properties file.

Passing crowd.properties as an environment variable

You can pass the location of a client application's <code>crowd.properties</code> file to the client application as an environment variable when starting the client application. This means that you can choose a suitable location for the <code>crowd.properties</code> file, instead of putting it in the client application's <code>WEB-INF/classes</code> directory.

This applies to the Crowd Administration Console's <code>crowd.properties</code> file too. You may find this particularly useful when integrating with a WAR deployment of an integrated application.

Example:

```
-Dcrowd.properties={FILE-PATH}/crowd.properties
```

2.2 Configure Confluence to use Crowd's Authenticator

Now that the Crowd client libraries exist, we need to configure Confluence to use them.

1. Edit the CONFLUENCE/confluence/WEB-INF/classes/atlassian-user.xml file so that the contents of the file is:

- 2. At this stage, Confluence is set up for centralised authentication. If you wish, you can now enable single sign-on (SSO) to Confluence.
 - Skip this step if you are using the Confluence NTLM plugin to enable SSO. Instead, follow the instructions on configuring Confluence for NTLM SSO.

Edit CONFLUENCE/confluence/WEB-INF/classes/seraph-config.xml. Comment out the authenticator node:

<!--<authenticator class="com.atlassian.confluence.user.ConfluenceAuthenticator"/>-->

and add a new one:

<authenticator class="com.atlassian.crowd.integration.seraph.ConfluenceAuthenticator"/>

Confluence's authentication and access request calls will now be performed using Seraph.

2.3 Enable Confluence's External User Management

Once the setup is complete, you may optionally wish to enable a Confluence feature known as 'External User Management' in Confluence, to prevent Confluence administrators from creating/modifying users. For more information please see the Confluence documentation regarding External User Management.



- If you are using Confluence 2.6.2 or earlier, this step is required i.e. you must turn on external user management in Confluence.
- If you have imported Confluence users into Crowd, you may want to delay turning on 'External User Management' for a week or two, to give users time to reset their passwords. (Because users' passwords are encrypted in Confluence's database, they will not be copied across to Crowd.)

2.4 (Optional) Tune the Cache

When using the atlassian-user and Crowd framework together with Confluence, it is highly recommended that caching be enabled. Multiple redundant calls to the atlassian-user framework are made on any given request. These results can be stored locally between calls by enabling caching via the Crowd Options menu. (Note that this caching in the Crowd application is enabled by default.)

Confluence will obtain all necessary information for the period specified by the cache configuration — see Configuring Caching for an Application. If a change or addition occurs to Crowd users, groups and roles, these changes will not be visible in Confluence until the cache expires for that specific item (i.e. for the particular user, group or role).

1 The default value for the application cache is 5 minutes (300 seconds). To increase the performance of your application, consider changing the cache value to one or two hours (3600 or 7200 seconds).

See Crowd in Action

- Users belonging to the confluence-users group should now be able to log in to Confluence.
- Try adding a user to the confluence-users group using Crowd you should be able to log in to Confluence using this newly created user. That's centralised authentication in action!
- If you have enabled SSO, you can try adding the Confluence Directory and confluence—administrators group to the crowd application (see 3.3 Mapping a Directory to an Application and 3.4 Specifying which Groups can access an Application). This will allow Confluence administrators to log in to the Crowd Administration Console. Try logging in to Crowd as a Confluence administrator, and then point your browser at Confluence. You should be logged in as the same user in Confluence. That's single sign-on in action!

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.2.3.1 Configuring Confluence for NTLM SSO

This page last changed on Dec 02, 2007 by justen.stepka@atlassian.com.



Confluence NTLM plugin not officially supported by Atlassian

The <u>Confluence NTLM plugin</u> was written by a third party. Atlassian does not officially support the plugin. The Atlassian Crowd team will do our best to advise on any Crowd integration problems. Please refer to the <u>plugin documentation</u> for installation instructions and further support.

Out of the box, <u>Confluence</u> does not support Single Sign On (SSO) functionality. This page describes how to set up Confluence with <u>NTLM</u> SSO functionality using the <u>Confluence NTLM plugin</u>, <u>Crowd</u>, and <u>Active Directory</u> (AD) as your LDAP user repository.

Summary

The Confluence NTLM plugin enables the following authentication scenario:

- A user in a Windows domain logs into the Windows network, using their Active Directory username/ password.
- Then, when they open Confluence in an Internet Explorer browser, they are seamlessly logged into Confluence.

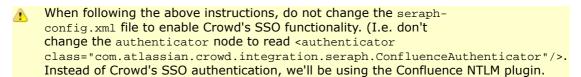
The <u>Crowd</u> component then allows you to manage all users and groups in Active Directory. Crowd automatically ensures that users and groups are synchronised between AD and Confluence. For example, if a user/group is added/deleted from AD it will be automatically added/deleted from Confluence.

Components

Confluence NTLM plugin	NTLM is the protocol used by Windows for authentication. The Confluence NTLM plugin takes care of the Windows domain / Active Directory login to Confluence. You must be running a Windows Domain Controller with accounts set up in AD in order to use this plugin. If NTLM authentication is not available, the plugin allows standard form-based login to Confluence. Note: This plugin is not officially supported by Atlassian.
Crowd	Crowd takes care of the synchronisation of users/ groups between Active Directory and Confluence. You will need to create an SSL connection between Crowd and the AD server if you would like to create users through Crowd. AD will not allow Crowd to add users or change their passwords unless the communication occurs over a secure connection.
Active Directory (AD) on Windows 2003 Server	Active Directory (AD) on Windows 2003 Server — you must already have an AD instance set up and running with a domain controller.
Confluence	The machine running <u>Confluence</u> must be part of the Windows domain or installed on the same box as the domain controller.

Steps

- 1. Back up your Confluence installation files and data:
 - Confluence Home directory. (See Confluence's <u>Important Directories and Files</u> for how to locate this).
 - Confluence installation directory (if you are using Confluence Standalone) or your Confluence webapp (if you are using Confluence EAR-WAR).
 - Your <u>database</u> (if you are not using the embedded database).
- 2. Download the Confluence NTLM plugin.
- 3. Install the plugin, following the instructions on the plugin documentation page.
- 4. In the ldaputil.properties file, insert the appropriate LDAP and Domain Controller information along with other parameters.
- 5. Install and configure Crowd.
- 6. Create a directory in Crowd for the AD LDAP server.
- 7. Create the Confluence application in Crowd and configure Crowd and Confluence to talk to each other, as described in Integrating Crowd with Atlassian Confluence.



- 8. In AD, create the groups confluence-users and confluence-administrators. They should then appear in Crowd.
- 9. In AD, create an admin user and make them a member of the above groups in AD.
- 10. Create any additional groups that you would like in AD.
- 11. Log in to the Windows domain using your desktop login and then open Confluence in an Internet Explorer browser. You should be logged in automatically.

Additional Crowd Performance Tips

- Change the default cache setting timeout in the file <CONFLUENCE>\WEB-INF\classes\crowd-ehcache.xml. For performance reasons, increase the object caching to 7,200 seconds (2 hours): timeToIdleSeconds="7200" timeToLiveSeconds="7200".

 This reduces the frequency of the requests from Crowd to the LDAP server when changes to LDAP objects (such as a group name or user attribute) are made, thus reducing the performance overhead.
- Turn on the 'Use Paged Results' option in the <u>directory connector tab</u> for the directory you've set up in Crowd.

3.2.04 Integrating Crowd with Atlassian CrowdID

This page last changed on Feb 27, 2008 by smaddox.

<u>Atlassian CrowdID</u> is a free add-on to Crowd. It gives administrators a secure way to provide <u>OpenID</u> accounts for their users.

When installing Crowd 1.1+ the <u>Crowd Setup Wizard</u> allows you to install CrowdID with Crowd. If you chose to install CrowdID as part of the Setup Wizard, there is no need for further configuration. The CrowdID server will be up and running at http://localhost:8095/openidserver

If you have not already installed CrowdID, follow the instructions below to install it now.

Prerequisites

- 1. Download and install Crowd. Refer to the <u>Crowd installation guide</u> for detailed information on how to do this. We will refer to the Crowd root folder as <u>CROWD</u>.
- 2. This guide assumes that CrowdID was NOT installed with the installation of Crowd. If CrowdID was installed using the Crowd Setup Wizard, there is no need for further configuration.

Step 1. Configuring Crowd to Talk to CrowdID

1.1 Prepare Crowd's Directories/Groups/Users for CrowdID

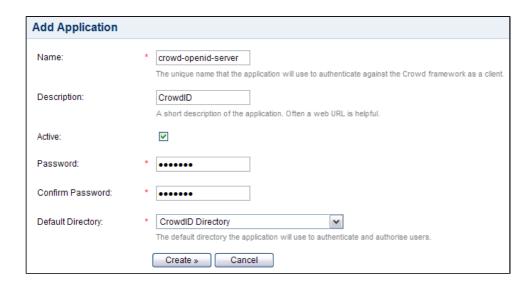
CrowdID also requires an administrator group to exist in the directory. You need to ensure that a <code>crowd-administrators</code> groups exist in the CrowdID Directory. Any user in this group will have CrowdID administrator access.

The Crowd documentation has more information on <u>creating groups</u>, <u>creating users</u> and <u>assigning users</u> to groups.

1.2 Define the CrowdID Application in Crowd

Crowd needs to be aware that the CrowdID application will be making authentication requests to Crowd. We need to add the CrowdID application to Crowd and map it to the CrowdID Directory.

- 1. Log in to the <u>Crowd Administration Console</u> and navigate to Applications > Add Application.
- 2. Fill out the form to add the CrowdID application:

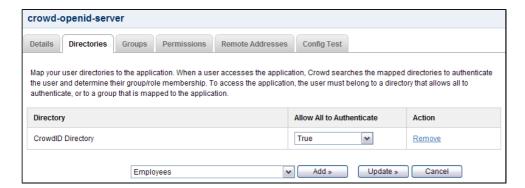


Attribute	Description
Name	The username which the application will use when it authenticates against the Crowd framework as a client. This value must be unique, i.e. it cannot be used by more than one application client.
Description	A short description of the application. Note: A web URL is often helpful.
Active	Only deselect this if you wish to prevent all users (from all directories) from accessing this application.
Password	The password which the application will use when it authenticates against the Crowd framework as a client.
Confirm Password	Retype the same password as above, to confirm it.
Default Directory	A directory that contains relevant users. Note: Additional directories can be <u>added later</u> .

The Name and Password values must match the application.name and application.password that you set in the CROWD/crowd-openidserver-webapp/WEB-INF/classes/crowd.properties (see Step 2 below).

1.3 Specify which Users can Log In to CrowdID

Now that Crowd is aware of the CrowdID application, Crowd needs to know which directories or users can authenticate (log in) via Crowd. You can either allow entire directories to authenticate, or just particular groups within the directories. In our example, we will allow the entire CrowdID Directory to authenticate:



For details please see 3.4 Specifying which Groups can access an Application.

1.4 Specify the Address from which CrowdID can Log In to Crowd

Please see 3.5 Specifying an Application's Address or Hostname. Please note:

- If CrowdID is on a different host to Crowd:
 If you are running the CrowdID on a different host to Crowd, you will need to modify the permissible
 hosts via the Remote Addresses tab. This lists the hosts/IP addresses that are allowed to
 authenticate to Crowd. If CrowdID is remote to Crowd, add the IP address of your CrowdID server
 and ensure the "Status" field is set to "true". Remove the entry for localhost.
- If CrowdID is on the same host as Crowd:
 By default, when you add an application, localhost is a permissible foreign host. However, you will also need to manually add the IP address 127.0.0.1, as incoming requests to Crowd from CrowdID (both on the same, local, host) may be from the host 127.0.0.1 and not localhost. Crowd does not do a DNS lookup of the hostname. Instead, it compares the values as is. Ensure the 'Status' field is set to 'true'.

Step 2. Configuring CrowdID to Talk to Crowd

Edit CROWD/crowd-openidserver-webapp/WEB-INF/classes/crowd.properties. Change the following properties:

Key	Value
application.name	crowd-openid-server
application.password	Set a password.
application.login.url	http://localhost:8095/openidserver
crowd.server.url	http://localhost:8095/crowd/services/
session.validationinterval	This is the number of minutes between validation requests, when Crowd validates whether the user is logged in to or out of the Crowd SSO server. Set this value to 0 if you want authentication checks to occur on each request. Otherwise set to the required number of minutes between validation requests. Setting this value to 1 or higher will increase the performance of Crowd's integration.

If your Crowd server's port is configured differently from the default (i.e. 8095), set it accordingly. The application.name and application.password must match the Name and Password that you specified when you defined the application in Crowd (see Step 1 above). The application.login.url should point to the correct host and port of the CrowdID application.

See CrowdID in Action

• Go to http://localhost:8095/openidserver and log in with any user in the CrowdID Directory.

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.2.05 Integrating Crowd with Atlassian FishEye

This page last changed on Feb 27, 2008 by smaddox.

You can use Crowd to provide external authentication and authorisation for Atlassian's <u>FishEye</u> source-repository viewer.

Crowd supports centralised authentication and single sign-on (SSO) for FishEye versions 1.3.1 and later.



Crucible and FishEye

If you are using Atlassian's Crucible code review tool, you will need to:

- Follow the instructions below to integrate Crowd with FishEye.
- Then follow the further instructions to integrate Crowd with Crucible.

Prerequisites

- 1. Download and install Crowd. Refer to the <u>Crowd installation guide</u> for detailed information on how to do this. We will refer to the Crowd root folder as CROWD.
- 2. Download and install FishEye. Refer to the <u>FishEye Installation Guide</u> for detailed information on how to do this. We will refer to the FishEye root folder as FISHEYE.
- 3. After FishEye is set up, make sure FishEye is not running when you begin the integration process described below.

Step 1. Configuring Crowd to Talk to FishEye

1.1 Prepare Crowd's Directories/Groups/Users for FishEye

The FishEye application will need to authenticate users against a directory configured in Crowd. You will need to set up a directory in Crowd for FishEye. For more information on how to do this, see 2.2 Adding a Directory. We will assume that the directory is called FishEye Directory for the rest of this document. It is possible to assign more than one directory for an application, but for the purposes of this example, we will use FishEye Directory to house FishEye users.

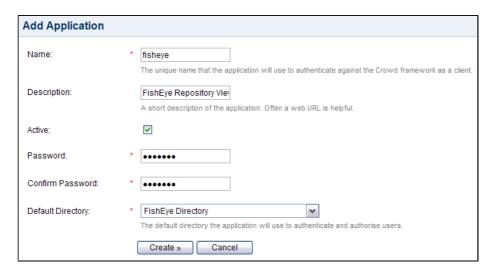
If you wish to use Crowd groups to control access to your FishEye repositories, you should set up your groups in Crowd. See the documentation on <u>Creating Groups</u> for more information on how to define these groups.

Use Crowd to create at least one user in the FishEye Directory. If you are using groups, assign your user(s) to the appropriate groups. The Crowd documentation has more information on <u>creating users</u> and <u>assigning users to groups</u>.

1.2 Define the FishEye Application in Crowd

Crowd needs to be aware that the FishEye application will be making authentication requests to Crowd. We need to add the FishEye application to Crowd and map it to the FishEye Directory:

- 1. Log in to the Crowd Administration Console and navigate to Applications > Add Application.
- 2. Fill out the form to add the FishEye application:

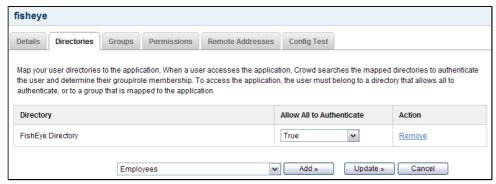


Attribute	Description
Name	The username which the application will use when it authenticates against the Crowd framework as a client. This value must be unique, i.e. it cannot be used by more than one application client.
Description	A short description of the application. Note: A web URL is often helpful.
Active	Only deselect this if you wish to prevent all users (from all directories) from accessing this application.
Password	The password which the application will use when it authenticates against the Crowd framework as a client.
Confirm Password	Retype the same password as above, to confirm it.
Default Directory	A directory that contains relevant users. Note: Additional directories can be added later.

1 The Name and Password values must match the 'Application name' and 'Application password' that you will set in FishEye's 'Crowd Authentication Settings' screen – see Step 2 below.

1.3 Specify which Users can Log In to FishEye

Now that Crowd is aware of the FishEye application, Crowd needs to know which users can authenticate (log in) to FishEye via Crowd. You can either allow entire directories to authenticate, or just particular groups within the directories. In our example, we will allow the entire FishEye Directory to authenticate:



If you wish to authorise specific groups only, please see <u>3.3 Mapping a Directory to an Application</u> and <u>3.4 Specifying which Groups can access an Application</u>.

1.4 Specify the Address from which FishEye can Log In to Crowd

Please see 3.5 Specifying an Application's Address or Hostname. Please note:

- If FishEye is on a different host to Crowd:

 If you are running FishEye on a different host to Crowd, you will need to modify the permissible hosts via the Remote Addresses tab. This lists the hosts/IP addresses that are allowed to authenticate to Crowd. If FishEye is remote to Crowd, add the IP address of your FishEye server and ensure the "Status" field is set to "true". Remove the entry for localhost.
- If FishEye is on the same host as Crowd:
 By default, when you add an application, localhost is a permissible foreign host. However, you will also need to manually add the IP address 127.0.0.1, as incoming requests to Crowd from FishEye (both on the same, local, host) may be from the host 127.0.0.1 and not localhost. Crowd does not do a DNS lookup of the hostname. Rather, it compares the values as is. Ensure the "Status" field is set to "true".

Step 2. Configuring FishEye to Talk to Crowd

The instructions below are for FishEye 1.4.x and later. If you are using FishEye 1.3.x, please follow the <u>guide for earlier versions of FishEye</u>.

2.1 Change the Details of your Existing FishEye Users

If you have an existing FishEye installation with existing built-in users, please do the following for each username in FishEye:

- Change the account type from 'built-in' to 'crowd'. This is required for the new authorisation through Crowd to work properly. For details please see the <u>Fisheye documentation</u>.
- Ensure that the username in FishEye is the same as in Crowd. If necessary, rename the user in FishEye. See the FishEye documentation for details.
- 2.2 Configure FishEye to use Crowd's Authenticator
 - 1. Log in to the FishEye Administration screens and navigate to 'Security'.
 - 2. Select 'Setup Crowd authentication'.
 - FishEye allows only one authentication method to be configured at any one time. If you have already configured a different authentication source, click the 'Remove' link to remove that authentication method. You will then be presented with the options for different authentication methods one will be the option to set up Crowd authentication.
 - 3. The 'Crowd Authentication Settings' screen will appear, as shown below. Enter the following information:
 - Application name the name for the FishEye application you specified in Step 1 above.
 - Application password the password you specified in Step 1 above.
 - Crowd URL http://localhost:8095/crowd/services/
 - The trailing slash is required.

 Auto-add – Select 'Create a FishEye user on successful login' (default) to ensure that your Crowd users will be automatically enrolled into FishEye when they first log in via Crowd.



For more information, please see the <u>Fisheye documentation</u> on configuring external authentication sources.

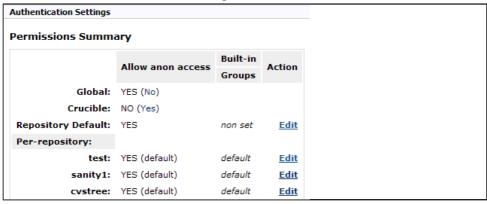
2.3 Configure Group Authorisation in FishEye (If Required)

If you have created groups in the Crowd directory which is mapped to your FishEye application (see Step 1 above), the Crowd groups can be seen in FishEye. Now you can set up group authorisation for your FishEye repositories.

Allow the groups to access your FishEye repositories as follows:

- 1. In the FishEye Administration menu, select 'Security' under 'Global Settings'.
- 2. This will display the 'Authentication Settings' screen. In the 'Permissions Summary' section, click 'Edit' next to the required repository name under 'Per-repository'.
- 3. The 'Edit Security' screen will appear. Select the group name(s) and click the 'Join' button. Click 'Update'. The group(s) will appear in the 'Built-in Groups' section of the 'Authentication Settings' screen.

Screenshot 1: 'Authentication Settings'



Screenshot 2: 'Edit Security'



Next Step for Crucible Users

If you are using Atlassian's <u>Crucible</u> code review tool, please take a look at the further instructions on <u>integrating Crowd with Crucible</u>.

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

Configuring FishEye 1.3.x to talk to Crowd

This page last changed on Feb 14, 2008 by justin.

This page forms part of the guide on Integrating Crowd with Atlassian FishEye and Crucible.

Lise the instructions below if you are integrating Crowd with FishEye version 1.3.x. If you are using FishEye 1.4.x or later, refer to the instructions for later versions of FishEye.

Step 1. Configuring Crowd to talk to FishEye

Please complete Step 1 in the full Crowd/FishEye integration instructions.

Step 2. Configuring FishEye to talk to Crowd



Before you begin

For any usernames that are already configured through the Fisheye Administration console, you will need to change the account type from 'built-in' to 'custom'. This is required for the new authorisation through Crowd to work properly.

For details please see the Fisheye documentation.

2.1 Install the Crowd Client Libraries into FishEye

Copy the Crowd integration libraries and configuration files as described in 3.2.11 Integrating Crowd with a Custom Application. This involves copying all client library JARs to the library folder of FishEye:

1 The version numbers have been omitted. Select the JAR which matches the name. This listing has been verified with FishEye 1.3.1.

Files to Copy	Destination
CROWD/client/crowd-integration-client-X.X.X.jar	\$FISHEYE_INST/lib
CROWD/client/lib/commons-codec-1.3.jar	\$FISHEYE_INST/lib
CROWD/client/lib/commons-httpclient-3.0.jar	\$FISHEYE_INST/lib
CROWD/client/lib/commons-lang-2.3.jar	\$FISHEYE_INST/lib
CROWD/client/lib/jdom-1.0.jar	\$FISHEYE_INST/lib
CROWD/client/lib/stax-api-1.0.1.jar	\$FISHEYE_INST/lib
CROWD/client/lib/wsdl4j-1.6.1.jar	\$FISHEYE_INST/lib
CROWD/client/lib/wstx-asl-3.2.0.jar	\$FISHEYE_INST/lib
CROWD/client/lib/xfire-core-1.2.6.jar	\$FISHEYE_INST/lib

2.2 Configure FishEye to use Crowd's Authenticator

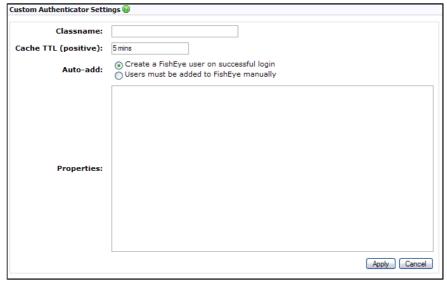
- 1. Log in as an administrator to FishEye and navigate to 'Users/Security'. Select 'Setup Custom authentication'.
 - Enter the following 'Classname' for the authenticator:

com.atlassian.crowd.integration.fisheye.FisheyeAuthenticator

Leave the cache and auto-add settings at their default values. This will mean authentication calls to Crowd will be cached (improves performance) and that users will be automatically enrolled into FishEye after their initial login to FishEye via Crowd.

• Fisheye requires you to pass in the configuration attributes for Crowd. Add the following information in the 'Properties' text box, replacing the information with your own configuration data – match the values set in Step 1.

application.name fisheye
application.password password
application.login.url http://localhost:8080/
crowd.server.url http://localhost:8095/crowd/services/
session.isauthenticated session.isauthenticated
session.tokenkey session.tokenkey
session.validationinterval 0
session.lastvalidation session.lastvalidation



Refer to the FishEye documentation for further details on using the FishEye setup screens.

2.3 Configure Groups for FishEye Source Repositories (If Required)

If you are using any FishEye groups to control access to particular source repositories, you will need to <u>create the groups in Crowd</u> and then configure FishEye as follows:

- 1. In the FishEye Administration menu, select 'Global Settings', then 'Users/Security'.
- 2. This will display the 'Authentication Settings' screen. In the 'Permissions Summary' section, edit the 'Per-repository' field and enter the group names (separated by commas) in the 'Custom restriction' field.

Screenshot 1: 'Authentication Settings'



Screenshot 2: 'Custom Restriction'



Related Topics

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

Crowd Documentation

3.2.06 Integrating Crowd with Atlassian JIRA

This page last changed on Feb 28, 2008 by smaddox.

Atlassian's popular <u>JIRA issue management system</u> takes advantage of the OSUser framework and can quickly be configured to use OSUser to link in single or multiple directory servers through Crowd. Crowd provides integration libraries for the OpenSymphony OSUser module, which has a simple-to-use API for user-management that allows pluggable implementations. More about the OSUser API can be reviewed at http://www.opensymphony.com/osuser/.

Currently Crowd supports centralised authentication and single sign-on for JIRA versions 3.7.4 and later.

If you are using NTLM for Windows authentication, you may want to read about configuring Crowd's JIRA NTLM plugin for single sign-on.

Prerequisites

- 1. Download and install Crowd. Refer to the <u>Crowd installation guide</u> for detailed information on how to do this. We will refer to the Crowd root folder as CROWD.
- 2. Download and install JIRA (version 3.7.4 or later). Refer to the <u>JIRA installation guide</u> for detailed information on how to do this. We will refer to the JIRA root folder as JIRA. For the purposes of this document, we will assume that the 'standalone' (i.e. the easier and recommended) installation method of JIRA has been used. If you need to install JIRA as an EAR/WAR, simply explode the EAR/WAR and make the necessary changes as described below, and repackage the EAR/WAR.
- 3. Make sure JIRA is not running when you begin the integration process described below.

Step 1. Configuring Crowd to talk to JIRA

1.1 Prepare Crowd's Directories/Groups/Users for JIRA

The JIRA application will need to locate users from a directory configured in Crowd. You will need to set up a directory in Crowd for JIRA. For information on how to do this, see 2.2 Adding a Directory. We will assume that the directory is called JIRA Directory for the rest of this document. It is possible to assign more than one directory for an application, but for the purposes of this example, we will use JIRA Directory to house JIRA users.

JIRA also requires particular groups to exist in the directory in order to authenticate users. You need to ensure that these three groups exist in the JIRA Directory:

- 1. jira-users
- 2. jira-developers
- 3. jira-administrators

You also need to ensure that the JIRA Directory contains at least one user who is a member of all three groups. You can either:

- If you have an existing JIRA deployment and would like to import existing groups and users into Crowd, use the JIRA Importer tool by navigating to Users > Import Users > Atlassian Importer. Select 'JIRA' as the Atlassian Product and the JIRA Directory as the directory into which JIRA users will be imported. For details please see 2.4.2 Importing Users from Atlassian JIRA. If you are going to import users into Crowd, you need to do this now before you proceed any further. OR:
- If you don't wish to import your JIRA users, use the Crowd Administration Console to create the
 three groups, then create at least one user in the JIRA Directory and add them to the three JIRAspecific groups (above). The Crowd documentation has more information on creating groups,
 creating users and assigning users to groups.

1.2 Define the JIRA Application in Crowd

Crowd needs to be aware that the JIRA application will be making authentication requests to Crowd. We need to add the JIRA application to Crowd and map it to the JIRA Directory.

1. Log in to the <u>Crowd Administration Console</u> and navigate to Applications > Add Application.

2. Fill out the form to add the JIRA application:

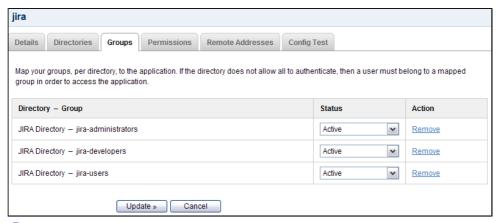


Attribute	Description
Name	The username which the application will use when it authenticates against the Crowd framework as a client. This value must be unique, i.e. it cannot be used by more than one application client.
Description	A short description of the application. Note: A web URL is often helpful.
Active	Only deselect this if you wish to prevent all users (from all directories) from accessing this application.
Password	The password which the application will use when it authenticates against the Crowd framework as a client.
Confirm Password	Retype the same password as above, to confirm it.
Default Directory	A directory that contains relevant users. Note: Additional directories can be <u>added later</u> .

1 The Name and Password values must match the application.name and application.password that you set in the JIRA/atlassian-jira/WEB-INF/classes/crowd.properties (see Step 2 below).

1.3 Specify which users can log in to JIRA

Now that Crowd is aware of the JIRA application, Crowd needs to know which directories or users can authenticate (log in) via Crowd. You can either allow entire directories to authenticate, or just particular groups within the directories. In our example, we will allow the jira-users, jira-developers and jira-administrators groups within the JIRA Directory to authenticate:



• With this example, only users who are members of the jira-users, jira-developers and jira-administrators groups will be able to authenticate against JIRA.

For details please see 3.4 Specifying which Groups can access an Application.

1.4 Specify the address from which JIRA can log in to Crowd

Please see 3.5 Specifying an Application's Address or Hostname. Please note:

- If JIRA is on a different host to Crowd
 If you are running the JIRA on a different host to Crowd, you will need to modify the permissible
 hosts via the Remote Addresses tab. This lists the hosts/IP addresses that are allowed to
 authenticate to Crowd. If JIRA is remote to Crowd, add the IP address of your JIRA server and
 ensure the "Status" field is set to "true". Remove the entry for localhost.
- If JIRA is on the same host as Crowd By default, when you add an application, localhost is a permissible foreign host. However, you will also need to manually add the IP address 127.0.0.1, as incoming requests to Crowd from JIRA (both on the same, local, host) may be from the host 127.0.0.1 and not localhost. Crowd does not do a DNS lookup of the hostname, rather, it compares the values as is. Ensure the "Status" field is set to "true".

Step 2. Configuring JIRA to talk to Crowd

2.1 Install the Crowd Client Libraries into JIRA

JIRA needs Crowd's client libraries in order to be able to delegate user authentication to the Crowd application. As stated earlier, we are going to be modifying the JIRA application by editing the standalone application, which is an exploded WAR stored in <code>JIRA/atlassian-jira</code>.

1. Copy the Crowd client libraries and configuration files to JIRA:

Copy From	Сору То
CROWD/client/crowd-integration-client-X.X.X.jar	JIRA/atlassian-jira/WEB-INF/lib
CROWD/client/conf/crowd.properties	JIRA/atlassian-jira/WEB-INF/classes

JIRA 3.11 and earlier are incompatible with Crowd 1.2.
You will need to remove the following file from JIRA's WEB-INF/lib/
seraph-0.7.12.jar directory and replace it with the following:
http://repository.atlassian.com/maven2/com/atlassian/seraph/atlassian-seraph/0.9/
atlassian-seraph-0.9.jar

 $\textbf{2. Edit} \ \texttt{JIRA/atlassian-jira/WEB-INF/classes/crowd.properties.} \ \textbf{Change the following properties:}$

Кеу	Value
application.name	jira
application.password	set a password
crowd.server.url	http://localhost:8095/crowd/services/
session.validationinterval	Set to 0, if you want authentication checks to occur on each request. Otherwise set to the number of minutes between request to validate if the user is logged in or out of the Crowd SSO server. Setting this value to 1 or higher will increase the performance of Crowd's integration.

If your Crowd server's port is configured differently from the default (i.e. 8095), set it accordingly. The application.name and application.password must match the Name and Password that you specified when you defined the application in Crowd (see Step 1 above).

Passing crowd.properties as an environment variable

You can pass the location of a client application's <code>crowd.properties</code> file to the client application as an environment variable when starting the client application. This means that you can choose a suitable location for the <code>crowd.properties</code> file, instead of putting it in the client application's <code>WEB-INF/classes</code> directory.

This applies to the Crowd Administration Console's <code>crowd.properties</code> file too. You may find this particularly useful when integrating with a WAR deployment of an integrated application.

Example:

```
-Dcrowd.properties={FILE-PATH}/crowd.properties
```

2.2 Configure JIRA to use Crowd's Authenticator

Now that the Crowd client libraries exist, we need to configure JIRA to use them.

1. Edit the JIRA config file <code>JIRA/atlassian-jira/WEB-INF/classes/osuser.xml</code>. Comment out any existing authentication providers and uncomment/insert the Crowd providers:

2. View JIRA/atlassian-jira/WEB-INF/classes/propertyset.xml. If an entry doesn't exists for the CrowdPropertySet, to add the following propertyset> at the end of the file as the last propertyset>:

- 3. At this stage, JIRA is set up for centralised authentication. If you wish, you can now enable single sign-on (SSO) to JIRA.
 - Skip this step if you are using the JIRA NTLM plugin to enable SSO. Instead, follow the instructions on configuring JIRA for NTLM SSO.

Edit JIRA/atlassian-jira/WEB-INF/classes/seraph-config.xml. Change the authenticator node to read:

```
<authenticator class="com.atlassian.crowd.integration.seraph.JIRAAuthenticator"/>
```

JIRA's authentication and access request calls will now be performed using Seraph. Now when authentication or access request calls are performed versus the OSUser framework, the JIRA stack will call the Crowd providers and propertyset implementations.

2.3 Enable JIRA's 'External User Management'

Once the setup is complete, you can configure JIRA to allow external user management. Go to the JIRA Administration Console. In the General Configuration section, turn 'External user management' and 'External password management' on or off. (See the <u>JIRA Administrator's Guide</u> for details).

JIRA with external user management ON:

This is recommended, because it allows you to use Crowd's powerful cross-directory user administration features.

If you turn external user management on, the following functions can no longer be performed from within the JIRA administration interface: adding users, adding groups, editing users, editing groups.

△ If you are using Crowd 1.1.1 or earlier, you must turn external user management on in JIRA.

JIRA with external user management OFF:

This means that you can allow signup via JIRA, and you can manage your users within JIRA. Changes will flow through to Crowd.

JIRA has an <u>automatic group membership</u> feature. This means that any new user added through JIRA will automatically be a member of all groups which have the JIRA Users permission. In this way, you can ensure that a new user is automatically added to several groups when they sign up with JIRA.

Any group or user changes will cascade to all directories assigned to the JIRA application in Crowd. For example, if user 'jbloggs' registers in JIRA, 'jbloggs' will be added to every Crowd directory linked with the JIRA application.

2.4 (Optional) Tune the Cache

When utilising the atlassian-user and Crowd framework together with JIRA, it is highly recommended that caching be enabled. Multiple redundant calls to the atlassian-user framework are made on any given request. These results can be stored locally between calls by enabling caching via the Crowd Options menu. (Note that this caching in the Crowd application is enabled by default.)

JIRA will obtain all necessary information for the period specified by the cache configuration - see <u>Configuring Caching for an Application</u>. If a change or addition occurs in Crowd to users, groups and roles, these changes will not be visible in JIRA until the cache expires for that specific item (i.e. for the particular user, group or role).

1 The default value for the application cache is 5 minutes (300 seconds). To increase the performance of your application, consider changing the cache value to one or two hours (3600 or 7200 seconds).

2.5 (Optional) Disable the Auto-Complete Function in JIRA's User Picker

To improve performance on page-loading in JIRA, we recommend that you disable the auto-complete function in JIRA's 'User Picker' popup screens. Follow the instructions in the <u>JIRA documentation</u>.

See Crowd in Action

- You should now be able to login using users belonging to the jira-users group. Try adding a user to the group using Crowd you should be able to login to JIRA using this newly created user. That's centralised authentication in action!
- If you have enabled SSO, you can try adding the JIRA Directory and jira-administrators group to the crowd application (see 3.3 Mapping a Directory to an Application and 3.4 Specifying which Groups can access an Application). This will allow JIRA administrators to log in to the Crowd Administration Console. Try logging in to Crowd as a JIRA administrator, and then point your browser at JIRA. You should be logged in as the same user in JIRA. That's single sign-on in action!

Known Limitations

A problem occurs in JIRA if a user is removed after that user has participated in an issue i.e. if JIRA refers to the user. If the user is internally managed by JIRA, JIRA will prevent the removal of the user but if the user is managed by an external system such as Crowd, JIRA will throw a DataAccessException.

The current workaround for this is to deactivate the user's account (by removing them from the jirausers group). This issue can be tracked here: http://jira.atlassian.com/browse/CWD-202

Related Topics

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd

- 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
- 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
- Integrating AppFuse a Crowd-Acegi Integration Tutorial
 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

Crowd Documentation

3.2.6.1 Configuring JIRA for NTLM SSO

This page last changed on Dec 02, 2007 by justen.stepka@atlassian.com.



JIRA NTLM plugin not officially supported by Atlassian

The <u>JIRA NTLM plugin</u> was written by a third party. Atlassian does not officially support the plugin. The Atlassian Crowd team will do our best to advise on any Crowd integration problems. Please refer to the <u>plugin documentation</u> for installation instructions and further support.

Out of the box, <u>JIRA</u> does not support Single Sign On (SSO) functionality. This page describes how to set up JIRA with <u>NTLM</u> SSO functionality using the <u>JIRA NTLM plugin</u>, <u>Crowd</u>, and <u>Active Directory</u> (AD) as your LDAP user repository.

Summary

The JIRA NTLM plugin enables the following authentication scenario:

- A user in a Windows domain logs into the Windows network, using their Active Directory username/ password.
- Then, when they open JIRA in an Internet Explorer browser, they are seamlessly logged into JIRA.

The <u>Crowd</u> component then allows you to manage all users and groups in Active Directory. Crowd automatically ensures that users and groups are synchronised between AD and JIRA. For example, if a user/group is added/deleted from AD it will be automatically added/deleted from JIRA.

Components

JIRA NTLM plugin	NTLM is the protocol used by Windows for authentication. The JIRA NTLM plugin takes care of the Windows domain / Active Directory login to JIRA. You must be running a Windows Domain Controller with accounts set up in AD in order to use this plugin. If NTLM authentication is not available, the plugin allows standard form-based login to JIRA. Note: This plugin is not officially supported by Atlassian.
Crowd	Crowd takes care of the synchronisation of users/ groups between Active Directory and JIRA. Tou will need to create an SSL connection between Crowd and the AD server if you would like to create users through Crowd. AD will not allow Crowd to add users or change their passwords unless the communication occurs over a secure connection.
Active Directory (AD) on Windows 2003 Server	Active Directory (AD) on Windows 2003 Server — you must already have an AD instance set up and running with a domain controller.
JIRA	The machine running <u>JIRA</u> must be part of the Windows domain or installed on the same box as the domain controller.

Steps

- 1. Back up your entire JIRA installation directory and run an XML backup of your data.
- 2. Download the JIRA NTLM plugin.
- 3. Read the README file included in the plugin zip file, and then follow the instructions in the INSTALL file to install the plugin.
- 4. In the ntlm_ldap.properties file, insert the appropriate LDAP and Domain Controller information along with other parameters.
- 5. Install and configure Crowd.
- 6. Create a directory in Crowd for the AD LDAP server.
- 7. Create the JIRA application in Crowd and configure Crowd and JIRA to talk to each other, as described in Integrating Crowd with Atlassian JIRA.



When following the above instructions, do not change the seraph-config.xml file to enable Crowd's SSO functionality. (I.e. don't change the authenticator node to read <authenticator class="com.atlassian.crowd.integration.seraph.JIRAAuthenticator"/>. Instead of Crowd's SSO authentication, we'll be using the JIRA NTLM plugin.

- 8. In AD, create the groups jira-users, jira-developers, and jira-administrators. They should then appear in Crowd.
- 9. In AD, create an admin user and make them a member of the above three groups in AD.
- 10. Create any additional groups that you would like in AD.
- 11. Log into the Windows domain using your desktop login and then open JIRA in an Internet Explorer browser. You should be logged in automatically.

Additional Crowd Performance Tips

- Change the default cache setting timeout in the file <JIRA>\WEB-INF\classes\crowd-ehcache.xml.
 For performance reasons, increase the object caching to 7,200 seconds (2 hours):
 timeToIdleSeconds="7200" timeToLiveSeconds="7200".
 This reduces the frequency of the requests from Crowd to the LDAP server when changes to LDAP objects (such as a group name or user attribute) are made, thus reducing the performance overhead.
- Turn on the 'Use Paged Results' option in the <u>directory connector tab</u> for the directory you've set up in Crowd.

3.2.07 Integrating Crowd with Jive Forums

This page last changed on Feb 28, 2008 by smaddox.

Jive Forums offers you the ability to specify an implementation to provide authentication and authorisation external to the application. This document outlines how to integrate Crowd's authenticator with Jive Forums.

Crowd provides centralised authentication and single sign-on (SSO) for Jive Forums version 5.5.x.



Attention Jive 5.5.9 Users

Due to Jive Software API changes, Atlassian Crowd is not compatible with Jive Forums 5.5.9. Please add http://jira.atlassian.com/browse/CWD-680 to your watch list for future updates. The latest Crowd-compatible version of Jive Forums is 5.5.8.

Prerequisites

- 1. Download and configure Crowd. Refer to the <u>Crowd installation guide</u> for detailed information on how to do this. We will refer to the Crowd root folder as CROWD.
- 2. Install/configure Jive Forums. Refer to the relevant Jive Forums documentation for information regarding this installation process. The documentation is usually supplied with the software distribution. Do not attempt to use Crowd as the authentication system during the installation process (use the default authentication system for the installation process).

Step 1. Tell Crowd about Jive Forums

1.1 Prepare Crowd's Directory/Users for Jive Forums

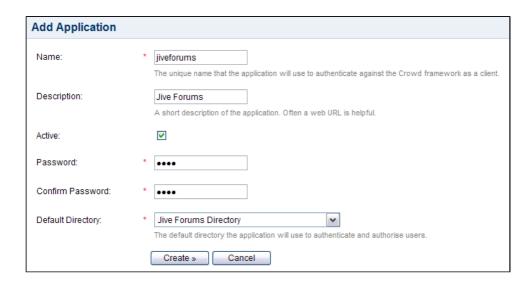
The Jive Forums application will need to locate users from a directory configured in Crowd. You will need to set up a directory in Crowd for Jive. For more information on how to do this, see 2.2 Adding a Directory. We will assume that the directory is called Jive Forum Directory for the rest of this document. It is possible to assign more than one directory for an application, but for the purposes of this example, we will use Jive Forum Directory to house Jive Forum users.

If you have an existing Jive Forums deployment and would like to import existing users into Crowd, use the Jive Importer tool by navigating Users > Import Users > JIVE. Select the Jive Forum Directory as the directory into which Jive Forum users will be imported. For details please see 2.4.3 Importing Users from Jive Forums. If you are going to import users into Crowd, you need to do this now before you proceed any further.

1.2 Define the Jive Forums Application in Crowd

Crowd needs to be aware that the Jive Forums application will be making authentication requests to Crowd. We need to add the Jive Forums application to Crowd and map it to the Jive Forums Directory:

- 1. Log in to the <u>Crowd Administration Console</u> and navigate to Applications > Add Application.
- 2. Fill out the form to add the Jive Forums application:

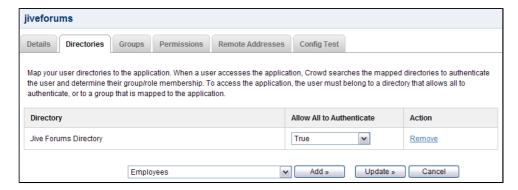


Attribute	Description
Name	The username which the application will use when it authenticates against the Crowd framework as a client. This value must be unique, i.e. it cannot be used by more than one application client.
Description	A short description of the application. Note: A web URL is often helpful.
Active	Only deselect this if you wish to prevent all users (from all directories) from accessing this application.
Password	The password which the application will use when it authenticates against the Crowd framework as a client.
Confirm Password	Retype the same password as above, to confirm it.
Default Directory	A directory that contains relevant users. Note: Additional directories can be <u>added later</u> .

The Name and Password values must match those set in the <code>jiveforums/web-inf/classes/crowd.properties</code> (see Step 2 below).

1.3 Specify which Users can Log In to Jive Forums

Now that Crowd is aware of the Jive Forums application, Crowd needs to know which directories or users can authenticate (log in) via Crowd. You can either configure entire directories to authenticate or allow particular groups. In our example, we can simply allow the entire directory to authenticate:



Alternatively, we can use the Groups tab to restrict the application to only authenticate particular groups of users. For details please see <u>3.4 Specifying which Groups can access an Application</u>.

1.4 Specify the Address from which Jive Forums can Log In to Crowd

Please see 3.5 Specifying an Application's Address or Hostname. Please note:

- Jive Forums is on a different host to Crowd

 If you are running Jive Forums on a different host to Crowd, you will need to modify the permissible hosts via the Remote Addresses tab. This lists the hosts/IP addresses that are allowed to authenticate to Crowd. If Jive Forums is remote to Crowd, add the IP address of your Jive Forums server and ensure the "Status" field is set to "true". Remove the entry for localhost.
- Jive Forums is on the same host as Crowd By default, when you add an application, localhost is a permissible foreign host. However, you will also need to manually add the IP address 127.0.0.1, as incoming requests to Crowd from Jive (both on the same, local, host) may be from the host 127.0.0.1 and not localhost. Crowd does not do a DNS lookup of the hostname, rather, it compares the values as is. Ensure the "Status" field is set to "true".

Step 2. Tell Jive Forums about Crowd

2.1 Install the Crowd Client Libraries into the Jive Forums WebApp

Jive Forums may be deployed on an application server as a single WAR file or a an exploded WAR folder. For the rest of the installation process, we will assume that Jive Forums has been set up as an exploded war file. If you need Jive Forums to be installed as a single WAR file, simply expand the WAR to a directory, make the changes as described below, and zip up the directory to form the WAR file. We will refer to the root folder of the Jive Forums web-app as JIVEFORUMS.

1. Copy the Crowd integration libraries and configuration files (this is described in the <u>Client Configuration</u> documentation). This is summarised below:

Copy From	Сору То
CROWD/client/crowd-integration-client-X.X.X.jar	JIVEFORUMS/WEB-INF/lib
CROWD/client/lib/log4j-1.2.8.jar	JIVEFORUMS/WEB-INF/lib
CROWD/client/lib/ehcache-1.2.3.jar	JIVEFORUMS/WEB-INF/lib
CROWD/client/conf/crowd.properties	JIVEFORUMS/WEB-INF/classes
CROWD/client/conf/crowd-ehcache.xml	JIVEFORUMS/WEB-INF/classes

- 2. Examine the JIVEFORUMS/WEB-INF/lib folder and delete any duplicate JARs. Duplicate JARs represent common libraries used by both the Crowd client and Jive Forums.
- 3. Edit JIVEFORUMS/WEB-INF/classes/crowd.properties. Change the following properties:

Key	Value
application.name	jiveforums
application.password	set a password

The name and password values must match those set when defining the application in Crowd (see Step 1 above).

0

Passing crowd.properties as an environment variable

You can pass the location of a client application's <code>crowd.properties</code> file to the client application as an environment variable when starting the client application. This means that you can choose a suitable location for the <code>crowd.properties</code> file, instead of putting it in the client application's <code>WEB-INF/classes</code> directory.

This applies to the Crowd Administration Console's <code>crowd.properties</code> file too. You may find this particularly useful when integrating with a WAR deployment of an integrated application.

Example:

```
-Dcrowd.properties={FILE-PATH}/crowd.properties
```

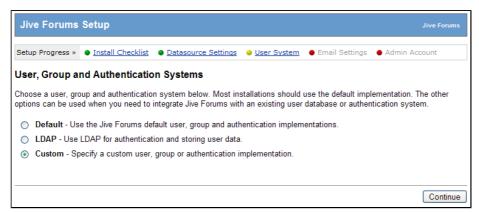
2.2 Configure Jive Forums to use Crowd's Authenticator

Crowd is now set up to provide authentication services to Jive. Now Jive needs to be set up to use Crowd's authenticator. There are a few ways of doing this. The most user-friendly method is outlined below:

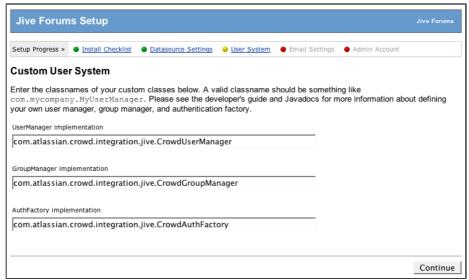
1. In your jiveHome directory, edit a file named jive_startup.xml. Modify the <setup> node to be false:

As the XML comment states, this lets us re-run Jive's setup.

- 2. Restart Jive Forums so that it picks up the changes.
- 3. View the Jive Forums site with a web browser usually under the <code>/jiveforums</code> context-root. Jive will run the "Jive Forums Setup".
- 4. In the 'Install Checklist' screen, click 'Continue' to navigate through the setup process.
- 5. In the 'Datasource Settings' screen, re-enter your database configuration details and click 'Continue'.
- 6. In the 'User System' screen, select 'Custom' authentication system and click 'Continue':



7. You should be at the 'Custom User System' screen. Enter the following details which specify Crowd as the custom authenticator:



UserManager implementation:

com.atlassian.crowd.integration.jive.CrowdUserManager

GroupManager implementation:

If you would like Crowd to manage your user groups, add the following group manager:

 $\verb|com.atlassian.crowd.integration.jive.CrowdGroupManager| \\$

• You can safely leave this field empty if you do not want Crowd to manage your groups. AuthFactory implementation:

 $\verb|com.atlassian.crowd.integration.jive.CrowdAuthFactory| \\$

Click 'Continue'.

If you have any errors at this stage, it is very likely that there is a classpath issue (eg. the Crowd client libraries aren't being properly loaded by Jive). Please read the documentation regarding <u>Crowd Client Libraries</u> for help identifying the problem.

- 8. In the 'Email Settings' screen, re-enter your email configuration details and click 'Continue'.
- 9. In the 'Admin Account Setup' screen, do not enter any details. Click 'Skip this step'.

- Warning
 - The default administrator for Jive Forums is the user admin. This user will need to exist in your mapped directory (i.e. the Jive Forums Directory) in Crowd. Without this user, you will not be able to access the administration console of Jive Forums.
- 10. Bounce the server and test that Crowd is authenticating users for Jive. You can do this by creating users (users) via the Crowd Administration Console and verifying that they are able to log in to Jive Forums.
 - Jive Forums Documentation
 For further information regarding Jive Forums Authentication Integration, check out the Jive Forums Documentation at http://www.jivesoftware.com/builds/docs/latest/documentation/developer-quide.html#userintegration

Check out the Jive SSO page for more details on Jive SSO Integration and corresponding use cases.

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

Crowd Documentation

3.2.7.1 Jive SSO

This page last changed on Feb 14, 2008 by smaddox.

This page details the nuts and bolts of Jive SSO. If you are having issues with Jive SSO, this page should be able to give you a better idea of what's going on behind the scenes and help you diagnose any common problems.

For Crowd-Jive integration, the incoming request must:

- 1. be authenticated with Crowd (have a Crowd SSO token in session or as a cookie)
- 2. be authenticated with Jive (have a CrowdAuthToken stored in HttpSession for Jive)

To authenticate with Crowd: simply log in to Crowd via any Crowd-SSO enabled application. This includes Jive's login page.

To authenticate with Jive: you need to be authenticated with Crowd as a user "allowed to be authenticated" by Jive. This means, the user must belong to a group or directory which Jive is authorised to authenticate. This user also needs to NOT be on any user/IP ban lists within the Jive application. The Crowd integration will honour the ban list. See note below.

Enumeration of Use Cases

User views Jive Forums and:

- 1. request is not authenticated with Crowd -> appears as guest user in Jive.
- 2. request is authenticated with Crowd, but user is not in directory/group allowed to authenticate with Jive -> appears as guest user in Jive.
- 3. request is authenticated with Crowd, user allowed to authenticate with Jive, user not on any ban list -> appears as logged-in user in Jive.
- 4. authenticated Jive user clicks logout from Jive -> user is logged out of Jive and Crowd.
- 5. authenticated Jive user logs out of Crowd using another SSO app -> user eventually times out of Jive.
- 6. request is authenticated with Crowd, user banned from logging into Crowd -> user appears as guest in Jive.
- 7. admin authenticated with Crowd and attempts to access Jive admin console -> admin appears logged in to Jive admin console.
- 8. authenticated Jive admin attempts to log out from Jive's admin console -> admin is still logged in (support issue filed with Jive Forums).
- 9. authenticated Jive admin attempts to log out from Jive Forums -> admin is logged out of Jive and Crowd.
- 10. request is authenticated with Crowd but user is banned from Jive Forums -> user is still authenticated with Crowd, but not allowed to log in to Jive Forums

Special Cases

- It is known that the "remember me" functionality of Jive will cease to function. This has been intentionally disabled. Jive's "remember me" functionality will need to be replaced by a more general "remember me" from within Crowd. Once this is implemented in Crowd, the Jive integration libraries can utilise Crowd's "remember me", so that "remember me" is centralised.
- It is recommended that admins do not use ban lists. Rather, you should manage access control based on Crowd's groups. So it's best to disable Ban Users from within Ban Settings inside the Jive admin console. There is nothing wrong with using ban lists, as they will be honoured by the Crowd-Jive integration libraries. So they will make it hard for a banned user to switch to a non-banned user. The only way a banned Jive user, authenticated with Crowd for Jive, will be able to switch to a different user that Jive will pick up, is when the Jive's Crowd authentication cache clears, so that Jive recognises a new user is signing in. This is because there is no way to log out a banned user from Jive, as they will always appear to be "guest". So basically, if you have users with multiple identities, if one is banned and attempts to log in, the user will have to wait until the client cache is cleared before he/she can log in with a different identity. Note: it's easy for non-banned users to switch identities as the client authentication cache is cleared when they click "logout" from within Jive.

Related Topics

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

Crowd Documentation

3.2.08 Integrating Crowd with Atlassian Bamboo

This page last changed on Mar 03, 2008 by smaddox.

Atlassian's <u>Bamboo integration server</u> can quickly be configured to use the atlassian-user libraries to link in single or multiple directory servers through Crowd.

Currently Crowd supports centralised authentication and single sign-on for Bamboo versions 1.2.2 and later.



Due to incompatible atlassian-user libraries, Bamboo releases prior to 1.2.2 are not compatible with latest version of Crowd. We recommend that you upgrade to the latest version of Bamboo before attempting to integrate Crowd.

Prerequisites

- 1. Download and install Crowd. Refer to the <u>Crowd installation guide</u> for detailed information on how to do this. We will refer to the Crowd root folder as CROWD.
- 2. Download and install Bamboo (version 1.2.2 or later). Refer to the <u>Bamboo Installation Guide</u> for detailed information on how to do this. We will refer to the Bamboo root folder as <u>BAMBOO</u>. For the purposes of this document, we will assume that you have used the Standalone (ie. the easier) installation method of Bamboo. If you need to install Bamboo as an EAR/WAR, simply explode the EAR/WAR and make the necessary changes as described below, and repackage the EAR/WAR.
- 3. After Bamboo is set up, make sure Bamboo is not running when you begin the integration process described below.

Step 1. Configuring Crowd to Talk to Bamboo

1.1 Prepare Crowd's Directories/Groups/Users for Bamboo

The Bamboo application will need to authenticate users against a directory configured in Crowd. You will need to set up a directory in Crowd for Bamboo. For more information on how to do this, see 2.2 Adding a a Directory. We will assume that the directory is called Bamboo Directory for the rest of this document. It is possible to assign more than one directory for an application, but for the purposes of this example, we will use Bamboo Directory to house Bamboo users.

Bamboo also needs an administrative group to exist in the directory in order to access the administration features. You will need to create two groups in the Bamboo Directory:

- 1. bamboo-admin
- 2. bamboo-user (optional)

See the documentation on Creating Groups for more information on how to define these groups.

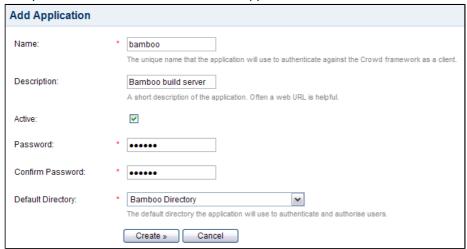
You also need to ensure that the Bamboo Directory contains at least one user who is a member of both groups. You can either:

- If you have an existing Bamboo deployment and would like to import existing users and groups into Crowd, use the Bamboo Importer tool by navigating to Users > Import Users > Atlassian Importer. Select 'Bamboo' as the Atlassian Product and the Bamboo Directory as the directory into which Bamboo users will be imported. For details please see 2.4.5 Importing Users from Atlassian Bamboo.
 If you are going to import users into Crowd, you need to do this now, before you proceed any further.
 OR:
- If you don't wish to import your Bamboo users, make sure you use Crowd to create at least one user in the Bamboo Directory and assign the user(s) to both the bamboo-user and the bamboo-admin groups. The Crowd documentation has more information on creating groups, creating users and assigning users to groups.

1.2 Define the Bamboo Application in Crowd

Crowd needs to be aware that the Bamboo application will be making authentication requests to Crowd. We need to add the Bamboo application to Crowd and map it to the Bamboo Directory:

- 1. Log in to the Crowd Administration Console and navigate to Applications > Add Application.
- 2. Complete the form to add the Bamboo application:

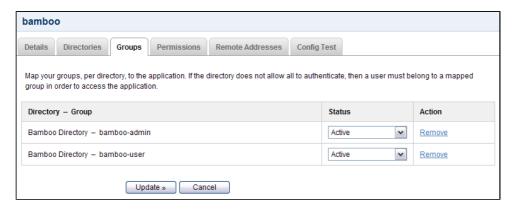


Attribute	Description
Name	The username which the application will use when it authenticates against the Crowd framework as a client. This value must be unique, i.e. it cannot be used by more than one application client.
Description	A short description of the application. Note: A web URL is often helpful.
Active	Only deselect this if you wish to prevent all users (from all directories) from accessing this application.
Password	The password which the application will use when it authenticates against the Crowd framework as a client.
Confirm Password	Retype the same password as above, to confirm it.
Default Directory	A directory that contains relevant users. Note: Additional directories can be added later.

1 The Name and Password values must match the application.name and application.password that you set in the Bamboo/webapp/WEB-INF/classes/crowd.properties (see Step 2 below).

1.3 Specify which Users can Log In to Bamboo

Now that Crowd is aware of the Bamboo application, Crowd needs to know which users can authenticate (log in) to Bamboo via Crowd. You can either allow entire directories to authenticate, or just particular groups within the directories. In our example, we will allow the bamboo-user and bamboo-admin groups within the Bamboo Directory to authenticate:



If you are not using a bamboo-user group as a security restriction, you will need to set 'Allow all to authenticate' to 'true' when mapping the directory, otherwise only bamboo-admin group members will be able to log in to Bamboo.

1.4 Specify the Address from which Bamboo can Log In to Crowd

Please see 3.5 Specifying an Application's Address or Hostname. Please note:

- If Bamboo is on a different host to Crowd: If you are running Bamboo on a different host to Crowd, you will need to modify the permissible hosts via the Remote Addresses tab. This lists the hosts/IP addresses that are allowed to authenticate to Crowd. If Bamboo is remote to Crowd, add the IP address of your Bamboo server and ensure the "Status" field is set to "true". Remove the entry for localhost.
- · If Bamboo is on the same host as Crowd: By default, when you add an application, localhost is a permissible foreign host. However, you will also need to manually add the IP address 127.0.0.1, as incoming requests to Crowd from Bamboo (both on the same, local, host) may be from the host 127.0.0.1 and not localhost. Crowd does not do a DNS lookup of the hostname; rather, it compares the values as is. Ensure the "Status" field is set to "true".

Step 2. Configuring Bamboo to Talk to Crowd

If your Bamboo version is earlier than 1.2.2, please upgrade to the latest stable version of Bamboo.

2.1 Install the Crowd Client Libraries into Bamboo

Bamboo needs Crowd's client libraries in order to be able to delegate user authentication to the Crowd application. As stated earlier, we are going to modify the Bamboo application by editing the standalone application, which is an exploded WAR stored in BAMBOO/webapp.

1. Copy the Crowd client libraries and configuration files to Bamboo:

Copy From	Сору То
CROWD/client/crowd-integration-client-X.X.X.jar	BAMBOO/webapp/WEB-INF/lib
CROWD/client/conf/crowd.properties	BAMBOO/webapp/WEB-INF/classes



Bamboo 1.2.4 release is not compatible with Crowd. You will need to remove the following file from Bamboo's WEB-INF/lib/ seraph-0.7.23. jar directory and replace it with the following: http://repository.atlassian.com/maven2/com/atlassian/seraph/atlassian-seraph/0.9/ atlassian-seraph-0.9.jar

Note that Bamboo 2.0 Beta is compatible with Crowd, and you don't need to replace the Seraph jar.

2. Edit BAMBOO/webapp/WEB-INF/classes/crowd.properties. Change the following properties:

Key	Value
application.name	bamboo
application.password	set a password
crowd.server.url	http://localhost:8095/crowd/services/
session.validationinterval	Set to 0, if you want authentication checks to occur on each request. Otherwise set to the number of minutes between requests to validate if the user is logged in or out of the Crowd SSO server. Setting this value to 1 or higher will increase the performance of Crowd's integration.

If your Crowd server's port is configured differently from the default (8095), set it accordingly.

1 The application.name and application.password must match the Name and Password that you specified when defining the application in Crowd (see Step 1 above). Bamboo does not use any of the other attributes of the crowd.properties file.

Passing crowd.properties as an environment variable

You can pass the location of a client application's <code>crowd.properties</code> file to the client application as an environment variable when starting the client application. This means that you can choose a suitable location for the <code>crowd.properties</code> file, instead of putting it in the client application's <code>WEB-INF/classes</code> directory.

This applies to the Crowd Administration Console's <code>crowd.properties</code> file too. You may find this particularly useful when integrating with a WAR deployment of an integrated application.

Example:

-Dcrowd.properties={FILE-PATH}/crowd.properties

2.2 Configure Bamboo to use Crowd's Authenticator

Now that the Crowd client libraries exist, we need to configure Bamboo to use them.

1. Edit the Bamboo/webapp/WEB-INF/classes/atlassian-user.xml file so that the contents of the file is:

2. At this stage, Bamboo is set up for centralised authentication. If you wish to enable single sign-on (SSO) to Bamboo, edit BAMBOO/webapp/WEB-INF/classes/seraph-config.xml. Comment out the authenticator node:

<!--<authenticator class="com.atlassian.bamboo.user.authentication.BambooAuthenticator"/>-->

and add a new one:

<authenticator class="com.atlassian.crowd.integration.seraph.BambooAuthenticator"/>

Bamboo's authentication and access request calls will now be performed using Seraph.

2.3 Configure External User Management in Bamboo

For Bamboo to integrate successfully with Crowd, Bamboo's 'External User Management' option needs to be:

- · Checked if you are using an LDAP directory with Crowd and you don't have write-access in LDAP.
- Unchecked if you are using internal Crowd directories, or Crowd with LDAP where you do have writeaccess.
- Unchecked if you are using a **Delegated Authentication** directory.

More information:

- Please ignore the wording on some versions of the Bamboo screens, which may imply that you should check this option.
- In later versions of Bamboo, the option will be called 'Read-Only External User Management'.
- Refer to the <u>Bamboo documentation</u> for full details of Bamboo's external management configuration.



2.4 (Optional) Enable Single Sign-On



SSO is optional

Single sign-on (SSO) is optional when integrating Bamboo and other Atlassian products. To use centralised authentication without SSO, skip the steps below.

To configure Seraph-based authentication:

 Edit the \bamboo\webapp\WEB-INF\classes\seraph-config.xml and change the authenticator node to read: <authenticator class="com.atlassian.crowd.integration.seraph.BambooAuthenticator"/>

2. Bamboo will also require the latest version of Atlassian Seraph. Copy <u>this JAR file</u> into Bamboo's \bamboo\webapp\WEB-INF\lib directory and remove the old file.

2.5 (Optional) Tune the Cache

When using the atlassian-user and Crowd framework together with Bamboo, it is highly recommended that caching be enabled. Multiple redundant calls to the atlassian-user framework are made on any given request. These results can be stored locally between calls by enabling caching via the Crowd Options menu. (Note that this caching in the Crowd application is enabled by default.)

Bamboo will obtain all necessary information for the period specified by the cache configuration - see <u>Configuring Caching for an Application</u>. If a change or addition occurs in Crowd to users, groups and roles, these changes will not be visible in Bamboo until the cache expires for that specific item (i.e. for the particular user, group or role).

1 The default value for the application cache is 5 minutes (300 seconds). To increase the performance of your application, consider changing the cache value to one or two hours (3600 or 7200 seconds).

See Crowd in Action

Welcome to Bamboo with Crowd!

- Users belonging to the bamboo-user group should now be able to log in to Bamboo. Try adding a user to the group using Crowd you should be able to log in to Bamboo using this newly created user. That's centralised authentication in action!
- If you have enabled SSO, you can try adding the Bamboo Directory and bamboo-admin group to the crowd application (see 3.3 Mapping a Directory to an Application and 3.4 Specifying which Groups can access an Application). This will allow Bamboo administrators to log in to the Crowd Administration Console. Try logging in to Crowd as a Bamboo administrator, and then point your browser at Bamboo. You should be logged in as the same user in Bamboo. That's single sign-on in action!

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname

- 3.6 Testing a User's Login to an Application
 3.7 Managing an Application's Session
 3.8 Deleting or Deactivating an Application

Crowd Documentation

3.2.09 Integrating Crowd with Acegi Security

This page last changed on Feb 28, 2008 by smaddox.

Crowd provides centralised authentication and single sign-on connectors for the web security framework Acegi. Acegi provides a modular and highly configurable approach to authentication and authorisation for J2EE applications.

The connectors are available with Crowd 1.2 and later and have been developed and tested with Acegi 1.0.5.

Please consult the Acegi <u>quick start guide</u> or <u>reference guide</u> for a thorough insight into the Acegi framework. You might also find useful information in our <u>Crowd-Acegi integration tutorial</u>.



This guide assumes developer-level knowledge

This guide assumes you have Crowd 1.3 or later installed and that you want to integrate your Acegi-based web application with Crowd's security server. This guide is more for developers than administrators.

Prerequisites

- 1. Download and configure Crowd. Refer to the <u>Crowd Installation Guide</u> for detailed information on how to do this. We will refer to the Crowd root folder as CROWD.
- 2. Have your Acegi-based custom application ready for tweaking. We will refer to your custom application as 'AcegiApp'.

Step 1. Configuring Crowd to Talk to your Acegi Application

Crowd needs to be aware that AcegiApp will be making authentication requests to Crowd. In brief, you will need to do the following:

- 1. Add the AcegiApp application to Crowd.
- 2. Add and configure the directories visible to AcegiApp.
- 3. Add and map the groups which are allowed to authenticate with AcegiApp.

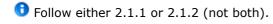
Please see 3.2 Adding an Application for a detailed guide.

Step 2. Installing the Crowd Acegi Connector

2.1 Adding the Crowd Acegi Connector to your Acegi Application

You will need to add the Crowd Acegi connector library and its associated dependencies to your Acegi application. You can do this manually by copying over the JAR files to your Acegi application or, if your Acegi application is a <u>Maven</u> project, you can add the Crowd Acegi connector as a project dependency.

2.1.1 Manually Adding the Crowd Acegi Connector Libraries



Copy the Crowd integration libraries and configuration files. This is described in the <u>Client Configuration</u> documentation. You will need to at least copy across the following file to your Acegi application:

Copy From	Сору То
CROWD/client/crowd-integration-client-X.X.X.jar	AcegiApp/WEB-INF/lib

2.1.2 Adding the Crowd Acegi Connector as a Maven Dependency

follow either 2.1.1 or 2.1.2 (not both).

To integrate Crowd with your Maven 2 project, you will need to include the following dependency in your pom.xml:

Because the Crowd libraries are not published to the standard Maven repository, you will need to add Atlassian's public repository:

See more information on Mayen 2 integration.

2.2 Configuring the Crowd Acegi Connector Properties

The Crowd Acegi connector needs to be configured with the details of the Crowd server.

1. Copy the default crowd.properties file to the classpath of your Acegi application:

Copy From	Сору То
CROWD/client/conf/crowd.properties	AcegiApp/WEB-INF/classes

2. Edit the crowd.properties and populate the following fields appropriately:

Key	Value
application.name	Same as application name defined when adding the application to Crowd in Step 1.
application.password	Same as application password defined when adding the application to Crowd in Step 1.
crowd.server.url	http://localhost:8095/crowd/services/
session.validationinterval	This is the time interval between requests which validate whether the user is logged in or out of the Crowd SSO server. Set to 0, if you want authentication checks to occur on each request. Otherwise set to the number of minutes you wish to wait between requests.

Setting this value to 1 or higher will increase the performance of Crowd's integration.

0

Passing crowd.properties as an environment variable

You can pass the location of a client application's <code>crowd.properties</code> file to the client application as an environment variable when starting the client application. This means that you can choose a suitable location for the <code>crowd.properties</code> file, instead of putting it in the client application's <code>WEB-INF/classes</code> directory.

This applies to the Crowd Administration Console's <code>crowd.properties</code> file too. You may find this particularly useful when integrating with a WAR deployment of an integrated application.

Example:

```
-{\tt Dcrowd.properties=\{FILE-PATH\}/crowd.properties}
```

Step 3. Configuring your Acegi Application to Use the Crowd Acegi Connector

There are two ways you can integrate your application with Crowd:

- Centralised user management: The user repository available to your application will be the user repository allocated to your application via Crowd. This means that your application will use the centralised user repository for retrieving user details as well as performing authentication.
- Single sign-on: In addition to centralised authentication, SSO will be available to your application. If any other SSO-enabled applications (such as JIRA, Confluence, or your own custom applications) are integrated with Crowd, then SSO behaviour will be established across these applications. If you sign in to one application, you are signed in to all applications. If you sign out of one application, you are signed out of all applications.

First, you will need to add the Crowd client application context to wire up the Crowd beans that manage the communication to Crowd. You can do this by including the applicationContext-CrowdClient.xml Spring configuration file, found in crowd-integration-client.jar. For example, if you are configuring Spring using a context listener, you can add the following parameter in your WEB-INF/web.xml:

Next, open the applicationContext.xml file relevant to your application, which contains the Acegi configuration. You are likely to have a bean configuration similar to this snippet:

3.1 Configuring Centralised User Management

Perform the following updates to your Acegi Spring configuration:

1. Add the definition of the CrowdUserDetailsService:

2. Add the definition of the CrowdAuthenticationProvider:

3. Update the definition of your AuthenticationManager / ProviderManager to use the CrowdAuthenticationProvider. If you need multiple authentication providers, you can append the CrowdAuthenticationProvider to your list.

Further extensions

- If you have an existing user data model, then you can extend or wrap the CrowdDetailsService to cater for user objects within your application domain.
- If you require users within Crowd to be created in your application's persistence model so that you can store application-specific user data, you can extend the CrowdAuthenticationProvider to create records for successfully authenticated Crowd users.



Crowd's remote API

We recommend that applications do not store the Crowd users locally. Rather, applications should query users via Crowd's <u>remote API</u>.



SSO is optional and requires centralised user management

Single sign-on is optional. If you wish to configure SSO you must first configure centralised user management as described in step 3.1 above.

Perform the following additional updates to your Acegi Spring configuration:

 Update the definition of the AuthenticationProcessingFilter to use the CrowdAuthenticationProcessingFilter:

2. Add the definition of the CrowdLogoutHandler:

```
<bean id="crowdLogoutHandler"
class="com.atlassian.crowd.integration.acegi.CrowdLogoutHandler">
cproperty name="httpAuthenticator" ref="httpAuthenticator"/>
</bean>
```

3. Update the definition of the LogoutFilter to use the CrowdLogoutHandler:

Step 4. Restarting your Acegi Application

Bounce your application. You should now have centralised authentication and single sign-on with Crowd.

Authorisation

For the purposes of Crowd integration with Acegi, you should map Acegi's roles to Crowd's groups. To put it another way: in order to use Acegi's authorisation features, users in Crowd will have their Acegi roles specified by their group names.

For example if user 'admin' is in the 'crowd-admin' group, then the user 'admin' will be authorised to view pages restricted to the 'crowd-admin' role in Acegi.

Related Topics

• 3.1 Using the Application Browser

- 3.2 Adding an Application
 3.3 Mapping a Directory to an Application
 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
 3.7 Managing an Application's Session
 3.8 Deleting or Deactivating an Application

Crowd Documentation

Integrating AppFuse - a Crowd-Acegi Integration Tutorial

This page last changed on Feb 18, 2008 by smaddox.

<u>AppFuse</u> provides a sweet starting point for developing web applications. You choose the frameworks, AppFuse generates the skeleton application.

At its core, the web security of AppFuse applications relies on the modular and extensible <u>Acegi</u> authentication framework. In this tutorial, we look at a basic integration of Crowd with Acegi, using an application generated by AppFuse.

Step 1. Get AppFuse

In this tutorial, we will be using the Struts2-basic archetype to create the project, but the other types should be similar. For more information, consult the AppFuse <u>quickstart guide</u>. In particular, it outlines the database requirements for AppFuse.

1. Create the project.

mvn archetype:create -DarchetypeGroupId=org.appfuse.archetypes DarchetypeArtifactId=appfuse-basic-struts -DremoteRepositories=http://
static.appfuse.org/releases -DarchetypeVersion=2.0 -DgroupId=com.mycompany.app DartifactId=myproject

2. Since we will be editing the core Acegi configuration, we will need the full source code of the application.

cd myproject
mvn appfuse:full-source

3. Build it.

mvn clean install

4. Run it.

mvn jetty:run-war -Dmaven.test.skip=true

5. Play with it.

http://localhost:8080/

6. Shut it down.

ctrl+c

Step 2. Let Crowd Know about AppFuse

Add appfuse as an application via the Crowd Console. See Adding an Application for more information.

Step 3. Add the Crowd Acegi Connector to AppFuse

Open up the pom.xml and add the Crowd client libraries as a project dependency:

You will also need to create the file myproject/src/main/resources/crowd.properties:

```
application.name appfuse
application.password password
application.login.url http://localhost:8095/crowd/
crowd.server.url http://localhost:8095/crowd/services/
session.isauthenticated session.isauthenticated
session.tokenkey session.tokenkey
session.validationinterval 0
session.lastvalidation session.lastvalidation
```

In particular, the application name and password must match the values defined for the application added in Step 2.

Step 4. Hook Up Centralised Authentication

Before modifying the security configuration, you will need to add the Spring configuration file to wire up the Crowd client beans. Add the applicationContext-CrowdClient.xml configuration file to the list of contextConfigLocations in WEB-INF/web.xml:

```
<context-param>
  <param-name>contextConfigLocation</param-name>
  <param-value>
      classpath:/applicationContext-resources.xml
      classpath:/applicationContext-dao.xml
      classpath:/applicationContext-service.xml
      classpath*:/applicationContext.xml
      classpath:/applicationContext.xml
      classpath:/applicationContext-CrowdClient.xml
      /WEB-INF/applicationContext*.xml
      /WEB-INF/scurity.xml
      /WEB-INF/security.xml
    </param-value>
</context-param>
```

AppFuse neatly stores all the Acegi configuration in myproject/src/main/webapp/WEB-INF/
security.xml. In order to get centralised authentication, we will need to set up Acegi to use the wrapped authenticator class we just created. Edit the Acegi beans in security.xml:

1. Add the definition of the CrowdUserDetailsService:

2. Add the definition of the CrowdAuthenticationProvider which will delegate Acegi's authentication requests to Crowd:

3. Replace the DaoAuthenticationProvider with our authenticator in the authentication manager:

4. Now do a:

```
mvn jetty:run-war -Dmaven.test.skip=true
```

- 5. Head over to http://localhost:8080/. You should now be able to authenticate the users in your Crowd repository that meet all of the following conditions:
- They are in a Crowd directory assigned to the AppFuse application in Crowd. See more information.
- They are in Crowd groups named ROLE_USERS and ROLE_ADMIN. You will need to add these groups
 and assign the user as a member of the groups. These Crowd group names map to the Acegi
 authorisation roles defined in the AppFuse application.
- They are allowed to authenticate with the AppFuse application because EITHER they are in a group allowed to authenticate with Crowd <u>see more</u> OR their container directory allows all users to authenticate <u>see more</u>.

Congratulations. You have centralised authentication \subseteq



0

Application-level centralised user management

One quirk you may notice is that you can't view the profile details of users who exist in Crowd, but did not exist in AppFuse prior to the Crowd integration. Although it's possible to authenticate a Crowd user 'dude' and still run AppFuse as 'dude', 'dude' will not be in

AppFuse's local database. AppFuse makes use of a database-backed user management system. In order to achieve application-level centralised user management, AppFuse will need to delegate its calls to create, retrieve, update and delete users to Crowd via Crowd's remote API. This will prevent data redundancy and eliminate the hassle of data synchronisation. This is beyond the scope of this short tutorial.

Step 5. Hook Up Single Sign-On

Enabling single sign-on (SSO) requires a little more tweaking of the security.xml:

1. Change the default processing filter to Crowd's SSO filter:

2. Add the definition of the CrowdLogoutHandler:

3. Update the definition of the LogoutFilter to use the CrowdLogoutHandler. You may need to uncomment the logout filter.

4. If the logout filter is not defined in the filter invocation list, you will need to add it:

5. Now repeat:

mvn jetty:run-war -Dmaven.test.skip=true

SSO will only work for users that are able to authenticate with both appplications and are authorised to use both applications. Try out the following:

- Log in to Crowd you should be logged in to AppFuse.
- Log out of AppFuse you should be logged out of Crowd.
 Log in to AppFuse; log out of Crowd; log in to Crowd as another user; refresh AppFuse you should be logged in as the new user.

Congratulations, you have SSO $\stackrel{\bigcirc}{\cup}$



3.2.10 Integrating Crowd with Atlassian Crucible

This page last changed on Dec 04, 2007 by smaddox.

You can use Crowd to provide external authentication and authorisation for Atlassian's <u>Crucible</u> code review tool.



Crucible and FishEye

When you purchase and install Crucible, you also receive Atlassian's <u>FishEye</u> source-repository viewer. FishEye and Crucible share a common authentication mechanism and integration with Crowd.

Prerequisites

- 1. Download and install Crowd. Refer to the <u>Crowd installation guide</u> for detailed information on how to do this. We will refer to the Crowd root folder as CROWD.
- 2. Download and install Crucible. Refer to the <u>Crucible Installation Guide</u> for detailed information on how to do this.
- 3. Follow the instructions on <u>integrating Crowd with FishEye</u>. For Crucible versions 1.2.x and later, refer to the instructions for FishEye 1.4. For Crucible 1.1.x and earlier, refer to the the instructions for FishEye 1.3.



Do not create a separate Crowd application for Crucible

Crucible will authenticate to Crowd using the application name and password which you have created for the FishEye application. (See <u>3.2.05 Integrating Crowd with Atlassian FishEye</u>.)

Configure Authorisation in Crucible Projects (If Required)

Optionally, you can now use the Crowd users and/or groups in the permission schemes for your Crucible projects. If you have created groups in the Crowd directory which is mapped to your FishEye application (see <u>3.2.05 Integrating Crowd with Atlassian FishEye</u>), the Crowd groups can be seen in Crucible.

Please refer to the Crucible documentation for instructions on:

- Creating projects in Crucible (here).
- Creating permission schemes and assigning them to users and/or groups (here).
- Linking the permission scheme to a Crucible project (here).

3.2.11 Integrating Crowd with a Custom Application

This page last changed on Feb 28, 2008 by smaddox.

Crowd ships with out-of-the-box support for a number of <u>applications</u>. You can also integrate Crowd with other applications as follows:

Step 1. Configuring Crowd to talk to your Application

Please see 3.2 Adding an Application.

Step 2. Configuring your Application to talk to Crowd

2.1 Developing a Crowd Client

If your application is not listed in 1.1.1 <u>Supported Applications and Directories</u> then you will need to create your own Crowd Client for your application, using the Crowd SOAP API. For assistance, please see <u>Creating a Crowd Client for your Custom Application</u>.

2.2 Configuring your Application

The integration libraries and configuration files are included in the Crowd download, in the client folder. You will find the Crowd integration library, and the client libraries on which the framework depends, in the lib folder. An example client properties file crowd.properties is located in the conf folder.

To configure your application, perform the following:

- 1. Copy the Crowd Client and supporting libraries to your application classpath, typically WEB-INF/lib.
 - These files will be in the client folder similar to crowd-integration-client-X.X.X. jar and all supporting jars in the client/lib folder.
- Copy the client properties file crowd.properties to your application's deployment directory, typically WEB-INF/classes.
- 3. Edit the crowd.properties file to reflect the values of your deployment parameters. Refer to the description of the attributes in the crowd.properties file.

Passing crowd.properties as an environment variable

You can pass the location of a client application's <code>crowd.properties</code> file to the client application as an environment variable when starting the client application. This means that you can choose a suitable location for the <code>crowd.properties</code> file, instead of putting it in the client application's <code>WEB-INF/classes</code> directory.

This applies to the Crowd Administration Console's <code>crowd.properties</code> file too. You may find this particularly useful when integrating with a WAR deployment of an integrated application.

Example:

-Dcrowd.properties={FILE-PATH}/crowd.properties

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye

- Configuring FishEye 1.3.x to talk to Crowd
- 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
- 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.3 Mapping a Directory to an Application

This page last changed on Feb 27, 2008 by smaddox.

Mapping a <u>directory</u> to an application defines the user-base for an application. Sometimes known as 'application provisioning', directory mappings determine which user stores will be used when authenticating and authorising a user's access request. Read more about <u>users</u>, <u>groups and roles</u>.

When you <u>defined an application</u>, you chose a default directory for that application to use. Crowd also allows you to map multiple directories to each application. This allows each of your applications to view multiple user directories as a single repository.

To map a directory to an application,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications tab in the top navigation bar.
- 3. This will display the <u>Application Browser</u>. Click the 'View' link that corresponds to the application you wish to map.
- 4. This will display the 'View Application' screen. Click the 'Directories' tab.
- 5. This will display a list of directories that are currently mapped to the application. Select the new directory from the drop-down list and click the 'Add' button.
- 6. The new directory will be added to the bottom of the list of mapped directories. You can use the blue up-arrow or down-arrow to move a directory higher or lower in the order:

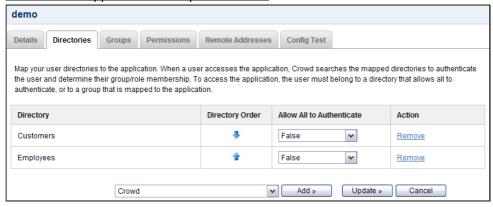


1

Why directory order is important

- 7. You now need to choose which users within the directory may authenticate against the application. You have two choices:
 - To allow all users within the directory to authenticate against the application, change 'Allow all to Authenticate' to 'True', then click the 'Update' button.
 OR:
 - To allow only specific groups of users within the directory to authenticate against the application, see <u>3.4 Specifying which Groups can access an Application</u>.
- 8. Next, you should define the application's ability to add/update users in the directory. Click the 'Permissions' tab and set the <u>directory permissions for the application</u>.

Screenshot: 'Application - Map Directories'



RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye

- Configuring FishEye 1.3.x to talk to Crowd
- 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
- 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.3.1 Specifying the Directory Order for an Application

This page last changed on Feb 27, 2008 by smaddox.

When you <u>map multiple directories to an application</u>, you also need to define the directory order. This is important in case the same user exists in multiple directories. When a user attempts to access an application, Crowd will search the directories in the order you specified, and will use the credentials (password, etc) of the first occurrence of the user to validate the login attempt (see diagram below).

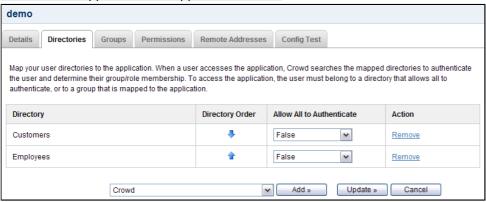
To specify the directory order,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications' tab in the top navigation bar.
- 3. This will display the <u>Application Browser</u>. Click the 'View' link that corresponds to the application you wish to map.
- 4. This will display the 'View Application' screen. Click the 'Directories' tab.
- 5. This will display a list of directories that are currently mapped to the application. Use the blue uparrow or down-arrow to move a directory higher or lower in the order:



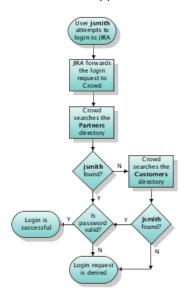
⇓

Screenshot: 'Application---Mapped Directories'



How it works

Let's assume that JIRA has been set up as a Crowd application, and has been mapped to two directories, 'Partners' and 'Customers', in that order (as shown in the above screenshot). Here is what happens when a user attempts to log in to JIRA:



① When granting the user access to an application, Crowd amalgamates the group memberships in the directories, as described in 4.07 Editing a User's Group and Role Membership.

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.3.2 Specifying an Application's Directory Permissions

This page last changed on Feb 27, 2008 by smaddox.

When you <u>map a directory to an application</u>, you can also define the application's ability to add/update/delete users, groups and roles in the directory. To do this, use the 'Permissions' tab in the 'View Application' screen.

Directory permissions are defined at two levels:

- 1. Directory-level permissions are defined on the 'Permissions' tab of the 'View Directory' screen. These permissions apply to each application mapped to the directory, unless the application has its own application-level permissions.
- 2. Application-level directory permissions are defined on the 'Permissions' tab of the 'View Application' screen. If a permission is enabled at directory level, you can enable it for a specific application. For example, you could enable the 'Add User' permission on the 'Customers' directory in JIRA but disable the permission for Confluence.

Take a look at an example.

Disabling a directory-level permission will override any permissions enabled at application level. If a permission is enabled at application level and then subsequently disabled at directory level, the directory-level permission will apply. (The application-level permissions will be 'remembered' and will apply again if re-enabled at directory level.)



How do directory permissions affect the Crowd application (Crowd Administration Console)?

- If a particular permission is turned off at directory level, then no application can perform the related function not even the Crowd application. So, for example, if you disable the 'Remove User' permission for a directory, then the Crowd Administration Console will not allow you to delete a user from that directory.
- The Crowd application is not bound by application-level permissions.

For details on directory-level permissions, refer to the instructions on <u>specifying directory permissions</u>. Below are instructions on setting the application-level directory permissions.

Permission	Description
Add Group	Allows the application to add groups to the selected directory.
Add User	Allows the application to add users to the selected directory.
Add Role	Allows the application to add roles to the selected directory.
Modify Group	Allows the application to modify groups in the selected directory.
Modify User	Allows the application to modify users in the selected directory.
Modify Role	Allows the application to modify roles in the selected directory.
Remove Group	Allows the application to delete groups from the selected directory.
Remove User	Allows the application to delete users from the selected directory. Consider carefully whether you allow the deletion of users, as some applications contain

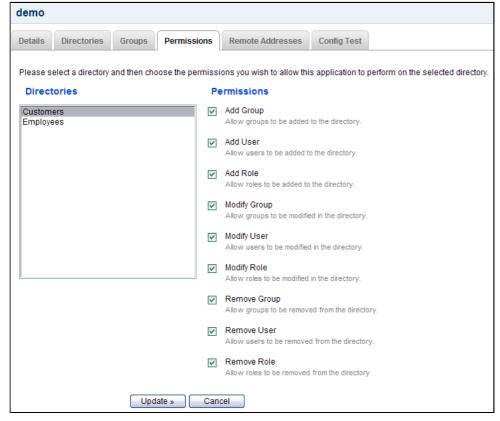
	historical data, e.g. documents that the user has created. Read <u>more</u> .
Remove Role	Allows the application to delete roles from the selected directory.

When you initially <u>map a directory to an application</u>, all of the application's permissions are enabled by default. But note that disabling a directory-level permission will override any permissions enabled at application level.

To set the directory permissions for an application,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications' tab in the top navigation bar.
- 3. This will display the <u>Application Browser</u>. Click the 'View' link next to the application you wish to update.
- 4. This will display the 'View Application' screen. Click the 'Permissions' tab.
- 5. This will display a list of directories that are currently mapped to the application, and a set of permission check-boxes. Select a directory from the list on the left.
- 6. The 'Permissions' check-boxes will change to show the application's existing permissions for that directory.
 - To enable a directory permission, select the corresponding check-box.
 - To disable a directory permission, deselect the corresponding check-box.

Screenshot: Setting directory permissions for an application



On the application permissions screen, the words '(disabled globally)' will appear next to any permission that is disabled at directory level.

RELATED TOPICS

• 2.3 Specifying Directory Permissions

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

Example of Directory Permissions

This page last changed on Feb 28, 2008 by smaddox.

Let's assume that you want to:

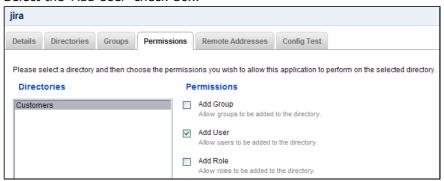
- · Allow self-registration (automatic signup) of new users in your 'Customers' directory via JIRA, and
- Disable self-registration via Confluence.

Here's how you would set the directory-level and application-level permissions in Crowd.

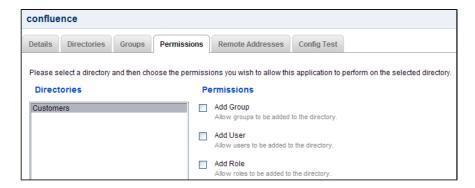
- 1. At directory level, enable the 'Add User' permission (and any other permissions you want):
 - a. In the Crowd Administration Console, click the 'Directories' tab in the top navigation bar.
 - b. Select the 'Customers' directory.
 - c. Click the 'Permissions' tab.
 - d. Select the 'Add User' check-box.



- 2. At application level, make sure the 'Add User' permission is enabled for the JIRA application:
 - a. Click the 'Applications' tab in the top navigation bar.
 - b. Click the 'View' link next to the JIRA application.
 - c. In the 'View Application' screen, click the 'Permissions' tab.
 - d. Select the 'Customers' directory.
 - e. Select the 'Add User' check-box.



- 3. At application level, disable the 'Add User' permission the Confluence application:
 - a. Click the 'Applications' tab in the top navigation bar.
 - b. Click the 'View' link next to the Confluence application.
 - c. Click the 'Permissions' tab.
 - d. Select the 'Customers' directory.
 - e. Deselect the 'Add User' check-box.



In summary:

With the above application permissions, a person will be able to sign up for a user account via JIRA and this user will be created in the 'Customers' directory, but they will not be able to sign up for an account via Confluence.

RELATED TOPICS

- 2.3 Specifying Directory Permissions
- 3.3.2 Specifying an Application's Directory Permissions

3.4 Specifying which Groups can access an Application

This page last changed on Feb 28, 2008 by smaddox.

You can specify which users are allowed to authenticate against each application. For each <u>mapped</u> <u>directory</u>, you can either allow all users within the directory to authenticate with the application, or just particular <u>groups</u> within the directory. You can then <u>assign group membership</u> to each user.

For example, the default group <code>crowd-administrators</code>, which is automatically created in the default directory that you specified <code>during setup</code>, is allowed to access the <code>Crowd Administration Console</code>. This means that users who belong to the group <code>crowd-administrators</code> are allowed to log in to the Crowd Administration Console (assuming they supply a valid password).

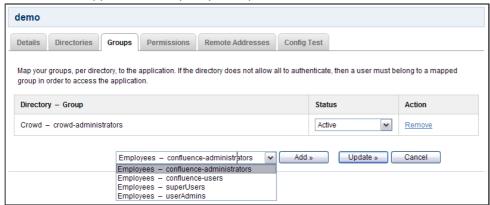
To allow a group to access an application,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications' tab in the top navigation bar.
- 3. This will display the <u>Application Browser</u>. Click the 'View' link that corresponds to the application you wish to map.
- 4. This will display the 'View Application' screen. Click the 'Groups' tab.
- 5. This will display a list of groups that currently have access to the application. Click the drop-down arrow next to the 'Add' button.
- 6. This will display a list of all the groups that exist within each directory. Select the new group from the drop-down list and click the 'Add' button.



Alternatively, you can allow all users from a particular directory to authenticate against the application. See <u>3.3 Mapping a Directory to an Application</u>.

Screenshot: 'Application — Specify Groups'



RELATED TOPICS

- 4. Managing Users, Groups and Roles
- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo

- 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application

 - 3.3.1 Specifying the Directory Order for an Application
 3.3.2 Specifying an Application's Directory Permissions
 Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.5 Specifying an Application's Address or Hostname

This page last changed on Feb 28, 2008 by smaddox.

To ensure that your Crowd server can only be used by legitimate applications, Crowd will only allow applications to log in from known addresses. This means that you need to specify the IP address(es) and/or hostname(s) of each application.

When you <u>add a new application</u>, it is restricted by default to localhost (127.0.0.1). If your application is on a different host, you will need to add the applicable host name or IP address, as described below.

To specify an application's IP address or hostname,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications tab in the top navigation bar.
- 3. This will display the <u>Application Browser</u>. Click the 'View' link that corresponds to the application you wish to map.
- 4. This will display the 'View Application' screen. Click the 'Remote Addresses' tab.
- 5. This will display a list of IP addresses and hostnames that are currently mapped to the application. Type the new IP address or hostname into the 'Address' field and click the 'Add' button.
- 6. The new address will be added to the bottom of the list.

Screenshot: 'Application — Addresses'



Common Misconfiguration

For an application to be able to use Crowd, the application's address must be valid and active.

RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security

- Integrating AppFuse a Crowd-Acegi Integration Tutorial
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
- 3.3.1 Specifying the Directory Order for an Application
 3.3.2 Specifying an Application's Directory Permissions

 Example of Directory Permissions

 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.6 Testing a User's Login to an Application

This page last changed on Feb 14, 2008 by smaddox.

You can use an application's 'Config Test' tab to verify that a user will be able to log in to a given application, based on the user, directory and group associations in Crowd.

Performing the Test

The test works like this:

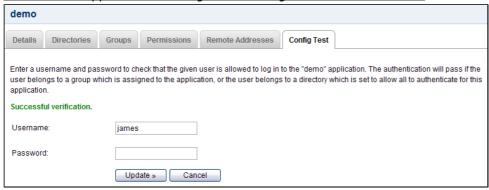
- 1. You enter the username and password of the user you wish to verify has access to a given application.
- 2. Crowd searches for the user with that username in the application's <u>mapped directories</u>, and verifies the password.
- 3. If the user is not found or the password is invalid, the authentication fails the test.
- 4. Crowd checks whether the directory is set to allow all to authenticate.
- 5. If all can authenticate, the test passes.
- 6. Else, Crowd checks the group(s) to which the <u>user belongs</u> and verifies whether those groups have access to the application.
- 7. If the user belongs to an allowed group, the test passes, otherwise it fails.

To test a user's login to an application,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications link in the top navigation bar.
- 3. This will display the <u>Application Browser</u>. Click the 'View' link that corresponds to the application you wish to verify.
- 4. This will display the 'View Application' screen. Click the 'Config Test' tab.
- 5. Enter the 'Username' and 'Password' that you wish to verify.
- 6. Click the 'Update' button.
- 7. A message appears above the 'Username', displaying one of the following:
 - 'Successful verification' The authentication has passed the test.
 - 'Invalid verification' The authentication has failed the test.

Below are some suggestions for the next steps you can take in each case.

Screenshot: 'Application---Config Test showing successful verification'



Successful Verification

If this test is successful, but the user is having trouble authenticating to an application, then the problem is caused by the connection between the application and Crowd rather than by user authentication.

Next step: Check the 'Application Sessions' tab in the <u>Session Browser</u> to see if the application is connected to Crowd.

Failed Verification

If the test declares the login to be invalid, this means that the configuration is incorrect within Crowd.

Next steps:

Check the following - all must be true to allow successful verification.

- The user must belong to a directory which is mapped to this application.
- · The password you used must be valid. In particular, check that the password is the one specified in the first directory in which the user appears. (If the user belongs to more than one directory, Crowd uses the first directory in which the user appears, as determined by the directory order.)
- - The directory must be set to allow all to authenticate.
 - The user must belong to a group which has access to the application.

Related Topics

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO

 - 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
 - 3.2.08 Integrating Crowd with Atlassian Bamboo
 - 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
 - 3.2.10 Integrating Crowd with Atlassian Crucible
 - 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.7 Managing an Application's Session

This page last changed on Feb 28, 2008 by smaddox.

Crowd allows you to see a list of all applications currently logged in to the <u>Crowd framework</u>. This is effectively a list of the applications which currently have users logged in to them, since an application will only ever log in to the Crowd framework when it needs to authenticate a user.

You can also force any session to expire, that is, you can log the application out of Crowd.

To see which applications are currently logged in to Crowd,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Current Sessions' in the left-hand menu.
- 4. This will display the 'Application Sessions' screen, showing a list of all applications which are currently logged in to the Crowd framework. For example, the screenshot below shows that the crowd application (i.e. the Crowd Administration Console) is currently logged in to the Crowd framework.
 - You can refine your search by specifying an application's 'Name'. (Note that this is case sensitive.)

To force an application to log out of Crowd,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Current Sessions' in the left-hand menu.
- 4. This will display the 'Application Sessions' screen, showing a list of all applications which are currently logged in to the Crowd framework. Click the application's 'Expire' link.



If you want to permanently prevent an application from logging in to Crowd, please see <u>3.8</u> Deleting or Deactivating an Application.

Screenshot: 'Sessions - Applications'



RELATED TOPICS

- 4.04 Managing a User's Session
- 5.2.5 Session Configuration
- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion
 - 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
 - 3.2.04 Integrating Crowd with Atlassian CrowdID
 - 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
 - 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO

- 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
 3.3 Mapping a Directory to an Application
- - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

3.8 Deleting or Deactivating an Application

This page last changed on Feb 28, 2008 by smaddox.

Deactivating an application prevents users from logging in to the application. You might do this if you are making changes to an application and need to temporarily keep users out of it.

Deleting an application removes the application's <u>details</u> and its <u>directory mappings</u>. You would typically only do this if the application is no longer required.

To deactivate an application,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications tab in the top navigation bar.
- 3. This will display the <u>Application Browser</u>. Click the 'View' link that corresponds to the application you wish to deactivate.
- 4. This will display the 'Application Details' screen. Deselect the 'Active' check-box, then click the 'Update' button. No users will now be able to log in to the application.
- $oldsymbol{0}$ To reactivate the application, follow the same steps but select the 'Active' check-box.

To delete an application,

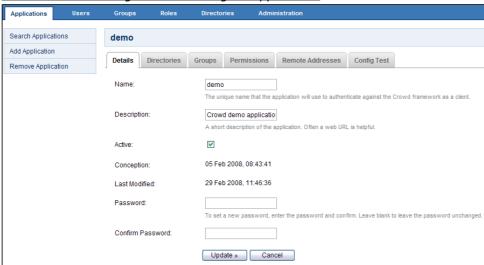
- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Applications tab in the top navigation bar.
- 3. This will display the <u>Application Browser</u>. Click the 'View' link that corresponds to the application you wish to deactivate.
- 4. This will display the 'Application Details' screen. Click 'Remove Application' in the left-hand menu.

The application will be removed from Crowd and will no longer appear in the Application Browser.



You cannot delete or deactivate the 'crowd' application (i.e. the <u>Crowd Administration Console</u>).

Screenshot: 'Deleting or Deactivating an Application'



RELATED TOPICS

- 3.1 Using the Application Browser
- 3.2 Adding an Application
 - 3.2.01 Integrating Crowd with Apache
 - 3.2.02 Integrating Crowd with Subversion

- 3.2.03 Integrating Crowd with Atlassian Confluence
 - 3.2.3.1 Configuring Confluence for NTLM SSO
- 3.2.04 Integrating Crowd with Atlassian CrowdID
- 3.2.05 Integrating Crowd with Atlassian FishEye
 - Configuring FishEye 1.3.x to talk to Crowd
- 3.2.06 Integrating Crowd with Atlassian JIRA
 - 3.2.6.1 Configuring JIRA for NTLM SSO
- 3.2.07 Integrating Crowd with Jive Forums
 - 3.2.7.1 Jive SSO
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
 - Integrating AppFuse a Crowd-Acegi Integration Tutorial
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application
- 3.3 Mapping a Directory to an Application
 - 3.3.1 Specifying the Directory Order for an Application
 - 3.3.2 Specifying an Application's Directory Permissions
 - Example of Directory Permissions
- 3.4 Specifying which Groups can access an Application
- 3.5 Specifying an Application's Address or Hostname
- 3.6 Testing a User's Login to an Application
- 3.7 Managing an Application's Session
- 3.8 Deleting or Deactivating an Application

4. Managing Users, Groups and Roles

This page last changed on Feb 14, 2008 by smaddox.

In Crowd, users are referred to as user entity objects or just users.

Groups and roles are known as permission container objects.

Groups are particularly important in Crowd, as they are often used to <u>control access</u> to applications. Note also that the <u>crowd-administrators</u> group confers Crowd administration rights to its members.

Roles are used less frequently, depending on the requirements of individual applications.



This section describes how to add/edit users, groups and roles via the <u>Crowd Administration Console</u>. Note that the ability to do this depends on the <u>permissions</u> of the directory which contains the users, groups and roles.

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User
- 4.04 Managing a User's Session
- 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
- 4.07 Editing a User's Group and Role Membership
- 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

4.01 Using the User Browser

This page last changed on Feb 19, 2008 by doflynn.

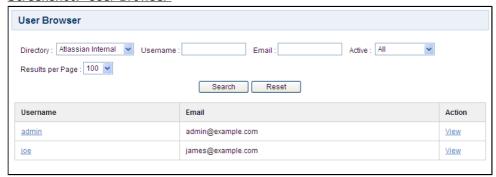
In Crowd, users are referred to as user entity objects or just users.

The User Browser allows you to search, view, add and edit users within a specified directory.

To use the User Browser,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the User Browser. Select the directory in which you are interested, then click the 'Search' button to list all the users that exist in that directory.
 - You can refine your search by specifying a 'Username' and/or 'Email' (note that these are case-sensitive), or 'Active'/'Inactive' users. (An 'Inactive' user is typically someone who has left your organisation.)
- 4. To view/edit a user's details, click the 'View' link.

Screenshot: 'User Browser'



Related Topics

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User
- 4.04 Managing a User's Session
- 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
- 4.07 Editing a User's Group and Role Membership
- 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

4.02 Adding a User

This page last changed on Feb 24, 2008 by smaddox.

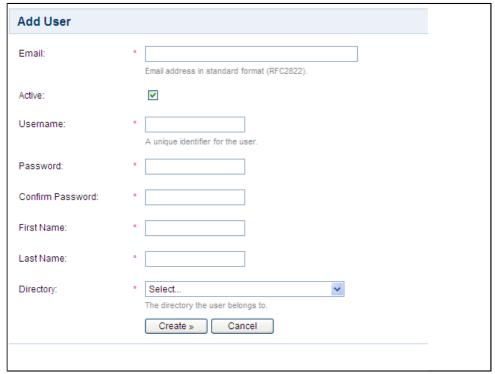
In Crowd, users are referred to as user entity objects or just users.

You can either import users into Crowd in bulk (see <u>2.4 Importing Users and Groups into a Directory</u>), or add them individually as described below.

To add a user,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Users' tab in the top navigation bar.
- 3. This will display the <u>User Browser</u>. Click 'Add User' in the left-hand menu.
- 4. Complete the following fields:
 - ullet Email The email address of the user. Email addresses must follow the RFC2822 format.
 - Active Only deselect this if you wish to deny the user access to the Crowd-integrated applications.
 - Username The user's login name. Within a given directory, the username must be unique. Note that you cannot change the username once the user has been created.
 - Password The user's password.
 - 1 If you have configured an <u>email server</u> and a <u>notification template</u>, Crowd will send the user an email notification about their new password.
 - Confirm Password Enter the same password again, to ensure that you have typed it correctly.
 - First Name The user's first name.
 - Last Name The user's last name.
 - Directory The directory to which the user will be added. Note that the user cannot be moved to a different directory once the user has been created.
- 5. Click the 'Create' button to add the user.
- 6. After creating the user, you will be able to specify the user's <u>attributes</u> and <u>group/role membership</u>. If you wish, you can also <u>verify that the user can log in to</u> appropriate applications.

Screenshot: 'Add User'



RELATED TOPICS

- 4.01 Using the User Browser
- 4.02 Adding a User

- 4.03 Deleting or Deactivating a User
 4.04 Managing a User's Session
 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
- 4.07 Editing a User's Group and Role Membership
- 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

4.03 Deleting or Deactivating a User

This page last changed on Feb 14, 2008 by smaddox.

Deactivating a user prevents them from logging in to any applications that use the Crowd framework. You would typically do this when a user leaves your organisation.

Deleting a user removes them completely from the relevant directory.



Consider deactivating instead of deleting

We recommend that you deactivate a user rather than delete them, in case some applications contain historical data, e.g. documents that the user has created. Read more.

To deactivate a user,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the User Browser. Select the relevant directory, locate the user you wish to deactivate, and click the 'View' link that corresponds to the user.
- 4. This will display the 'User Details' screen. Deselect the 'Active' check-box, then click the 'Update' button. The user will now be unable to log in to any applications which use the Crowd framework.

To delete a user,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the User Browser. Click the 'View' link that corresponds to the user you wish to
- 4. This will display the 'User Details' screen. Click the 'Remove User' link at the top-right of the screen.

The user will be removed from the relevant directory and will no longer appear in the User Browser..

Related Topics

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User
- 4.04 Managing a User's Session
- · 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
- 4.07 Editing a User's Group and Role Membership
- 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

4.04 Managing a User's Session

This page last changed on Feb 19, 2008 by doflynn.

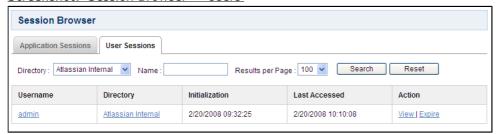
For any given directory, Crowd allows you to see which users are currently logged in to one or more applications that use the <u>Crowd framework</u>.

You can also force any session to expire, that is, you can log the user out of Crowd.

To see which users are currently logged in to Crowd,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click 'Current Sessions' in the left-hand menu.
- 4. This will display the 'Session Browser'. Click the 'User Sessions' tab.
- 5. Select the directory containing the users in which you are interested, and click the 'Search' button.
- 6. This will display a list of all users, within your chosen directory, who are currently logged in to the Crowd framework.
 - 1 You can refine your search by specifying a user's 'Name' (note that this is case-sensitive).

Screenshot: 'Session Browser - Users'



To log a user out of Crowd,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click 'Current Sessions' in the left-hand menu.
- 4. Click the 'User Sessions' tab.
- 5. This will display a list of all users which are currently logged in to the Crowd framework. Click the user's 'Expire' link.



If you want to permanently prevent a user from logging in to Crowd, please see $\underline{4.03}$ Deleting or Deactivating a User.

See Also...

3.7 Managing an Application's Session

5.2.5 Session Configuration

Related Topics

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User
- 4.04 Managing a User's Session
- 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
- 4.07 Editing a User's Group and Role Membership
- <u>4.08 Granting Crowd Administration Rights to a User</u>
- 4.09 Using the Group Browser and Role Browser

• 4.10 Adding a Group or Role

<u>Crowd Documentation</u>

4.05 Editing a User's Details and Password

This page last changed on Feb 19, 2008 by doflynn.

In Crowd, users are referred to as user entity objects or just users.

To edit a user's details,

- 1. Login to the Crowd Administration Console.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the <u>User Browser</u>. Select the relevant directory, locate the user in which you are interested, then click the 'View' link corresponding to the user.
- 4. This will display the 'User Details' screen.
- 5. Edit the details as required, then click the 'Update' button.

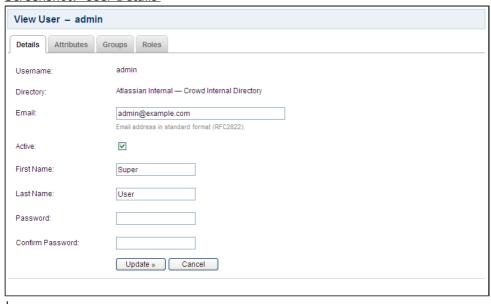
To change a user's password,

- 1. Login to the <u>Crowd Administration Console</u>.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the <u>User Browser</u>. Select the relevant directory, locate the user in which you are interested, then click the 'View' link corresponding to the user.
- 4. This will display the 'User Details' screen. You can either:
 - Enter the new password as required, then click the 'Update' button;
 OR
- Click the 'Reset Password' link. This will generate a new password (i.e. one which you do not know) and email it to the user.



If you have configured an <u>Email Server</u> and a <u>Notification Template</u>, Crowd will send the user an email notification about their new password.

Screenshot: 'User Details'



Related Topics

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User

- 4.04 Managing a User's Session

- 4.05 Editing a User's Details and Password
 4.06 Specifying a User's Attributes
 4.07 Editing a User's Group and Role Membership
- 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

4.06 Specifying a User's Attributes

This page last changed on Feb 19, 2008 by doflynn.

In Crowd, users are referred to as user entity objects or just users.

A user's default attributes are specific to the directory to which the user belongs. You can add other attributes (e.g. address, phone number, date of birth) manually as required.



Cannot add attributes to LDAP directories

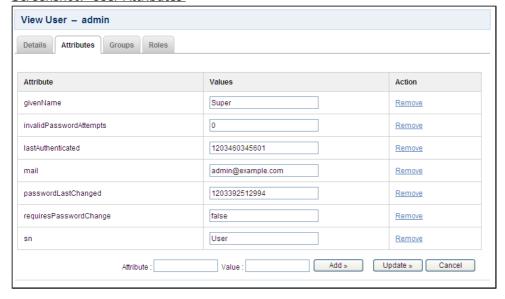
You cannot add new attributes to directories connected via Crowd's LDAP connector, although you can updated the existing supported attributes, as described in our LDAP connector documentation. Any new attributes added via the Crowd Administration Console will simply not appear in the directory.

To edit a user's attributes,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the User Browser. Select the relevant directory, locate the user in which you are interested, then click the 'View' link corresponding to the user.
- 4. This will display the 'User Details' screen. Click the 'Attributes' tab.
- · To add a new attribute,

You cannot add an attribute to an LDAP directory — see note above.

- 1. Type the name of the new attribute (e.g. phone) in the 'Attribute' field at the bottom of the screen.
- 2. Type the value of the new attribute (e.g. 0123456789) in the 'Value' field at the bottom of the screen.
- 3. Click the 'Add' button.
- To edit an existing attribute, edit the corresponding field in the 'Values' column, then click the 'Update' button.
- To delete an attribute, click the corresponding 'Remove' link in the 'Action' column.
- $foldsymbol{f 0}$ Note that some attributes may correspond to particular fields on the <code>User Details</code> screen. However, attributes are optional whereas the 'Details' fields are all required. Screenshot: 'User Attributes'



Related Topics

• 4.01 Using the User Browser

- 4.02 Adding a User

- 4.03 Deleting or Deactivating a User
 4.04 Managing a User's Session
 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
 4.07 Editing a User's Group and Role Membership
- 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

4.07 Editing a User's Group and Role Membership

This page last changed on Feb 19, 2008 by doflynn.

Within any given directory, you can choose the groups and roles to which each user belongs.

Note that a user's group membership is particularly important, as groups are often used to <u>control access</u> to <u>applications</u>.

What happens if a user exists in more than one directory?

If the same username exists in more than one directory assigned to an application, Crowd treats these usernames as the same user. Crowd searches all the assigned directories for the user, and amalgamates the group and role memberships.

For example, let's assume you have a user 'P' who exists in both directories 'D1' and 'D2', and is a member of group 'G1' in 'D1' and 'G2' in 'D2'. Crowd will grant access to the user based on membership of both 'G1' and 'G2'.

When authenticating the user, Crowd uses the first directory in which the username occurs, as described in 3.3.1 Specifying the Directory Order for an Application.

To add a user to a group,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the <u>User Browser</u>. Select the relevant directory, locate the user you wish to add, and click the 'View' link that corresponds to the user.
- 4. This will display the 'User Details' screen. Click the 'Groups' tab.
- 5. A list of the user's current groups (if any) will be displayed. Select the relevant group from the drop-down box below the list, then click the 'Add' button.
- The user will now be authorised to use any applications that use this group to control access.

To remove a user from a group,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Users' link in the top navigation bar.
- 3. This will display the <u>User Browser</u>. Select the relevant directory, locate the user you wish to remove, and click the 'View' link that corresponds to the user.
- 4. This will display the 'User Details' screen. Click the 'Groups' tab.
- 5. A list of the user's current groups (if any) will be displayed. Click the 'Remove' link corresponding to the relevant group.
- 1 The user will now be unable to log in to any applications that use this group to control access.

Screenshot: 'User — Groups'



 $oldsymbol{0}$ The adding or removing of a user to or from a role is performed via the Role Browser, but is otherwise identical to the process for groups.

Related Topics

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User
- 4.04 Managing a User's Session
- 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
- 4.07 Editing a User's Group and Role Membership
 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser4.10 Adding a Group or Role

4.08 Granting Crowd Administration Rights to a User

This page last changed on Feb 15, 2008 by smaddox.

Members of the 'crowd-administrators' group have administration privileges — that is, the ability to:

- access the <u>Crowd Administration Console</u> and perform the functions described in the <u>Crowd</u> Administration Guide
- access the CrowdID 'Administration' menu and perform the functions described in the <u>CrowdID</u> Administration Guide.

The 'crowd-administrators' group is automatically created in your 'Default Directory' when you install Crowd (see <u>3. Running the Setup Wizard</u>). If you need to grant Crowd administration rights to users in other directories, you can create a 'crowd-administrators' group in any or all of your other directories.

To grant administration privileges to a user,

- 1. Log in to the <u>Crowd Administration Console</u>.
- 2. Click the 'Users' tab in the top navigation bar.
- 3. This will display the <u>User Browser</u>. Select the directory which contains the user to whom you wish to grant administration rights.
- 4. Locate the user and click the 'View' link that corresponds to the user.
- 5. This will display the 'User Details' screen. Click the 'Groups' tab.
- 6. A list of the user's current groups (if any) will be displayed. Select the 'crowd-administrators' group from the drop-down box below the list, then click the 'Add' button.
 - If you wish, you can use a different or additional group to contain your Crowd administrators. To do this, map your chosen group(s) to the 'crowd' application as described in 3.4 Specifying which Groups can access an Application. Note that CrowdID administrators, however, must always belong to the 'crowd-administrators' groups.

RELATED TOPICS

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User
- 4.04 Managing a User's Session
- · 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
- 4.07 Editing a User's Group and Role Membership
- 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

4.09 Using the Group Browser and Role Browser

This page last changed on Feb 19, 2008 by doflynn.

About Groups and Roles

Groups and roles contain users.

Groups and roles are known as permission container objects.

Groups are particularly important in Crowd, as they are often used to <u>control access</u> to applications. Note also that the <u>crowd-administrators</u> group confers Crowd administration rights to its members.

Roles are used less frequently, depending on the requirements of individual applications.

About the Group Browser and the Role Browser

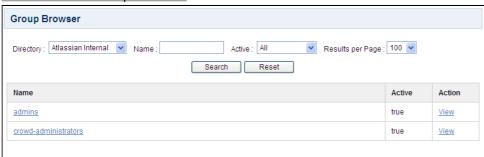
The Group Browser and Role Browser are very similar. They allow you to search, view, add and edit the various groups and roles stored within a specified directory.

To use the Group Browser,

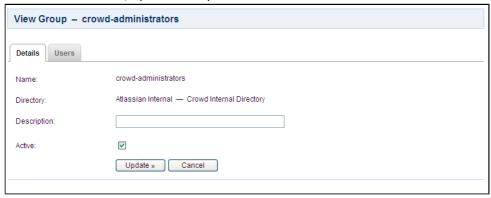
- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Groups' link in the top navigation bar.
- 3. This will display the Group Browser. Select the directory in which you are interested, then click the 'Search' button to list all the groups that exist in that directory.

 You can refine your search by specifying a 'Name' (note that this is case-sensitive), or
 - 'Active'/'Inactive' groups.
- 4. To view/edit a group's details, click the 'View' link.
- 5. To view the users who are members of the group, click the 'Users' tab. (This tab may take a while to load, depending upon the size of your user base.)

Screenshot 1: 'Group Browser'



Screenshot 2: 'View/Update Group Details'



Screenshot 3: 'View Members of a Group'



Related Topics

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User4.04 Managing a User's Session
- 4.05 Editing a User's Details and Password
- 4.06 Specifying a User's Attributes
- 4.07 Editing a User's Group and Role Membership
- 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

4.10 Adding a Group or Role

This page last changed on Feb 19, 2008 by doflynn.

Groups and roles are known as permission container objects.

Groups are particularly important in Crowd, as they are often used to <u>control access</u> to applications. Note also that the <u>crowd-administrators</u> group confers Crowd administration rights to its members.

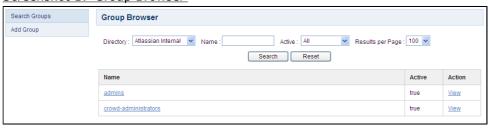
Roles are used less frequently, depending on the requirements of individual applications.

To add a group or role,

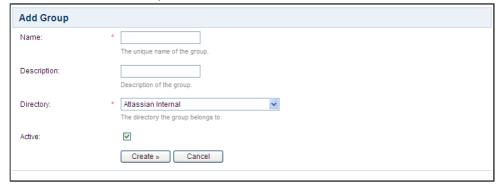
- 1. Log in to the <u>Crowd Administration Console</u>.
- 2. Click the 'Groups' or 'Roles' link in the top navigation bar.
- 3. This will display the <u>Group Browser</u> (or Role Browser). Click 'Add Group' or 'Add Role' in the left-hand menu.
- 4. Complete the fields as described in the table below, then click the 'Create' button.
 - 1 You can now add users to the new group or role.

Field	Description
Name	The unique name of the group or role. Within a given directory, the Name must be unique. Note that the Name cannot be changed once the group or role is created.
Description	A short description of the group or role.
Directory	The directory to which the group or role will be added. Note that the group or role cannot be moved to a different directory after it is created.
Active	Only deselect this if you wish to deny access to all members of the group or role.

Screenshot 1: 'Group Browser'



Screenshot 2: 'Add Group'



Groups (not roles) can also be added via Crowd's migration tools — see 2.4 Importing Users and Groups into a Directory.

See Also

3.4 Specifying which Groups can access an Application

Related Topics

- 4.01 Using the User Browser
- 4.02 Adding a User
- 4.03 Deleting or Deactivating a User
- 4.04 Managing a User's Session
- 4.05 Editing a User's Details and Password

- 4.06 Specifying a User's Attributes
 4.07 Editing a User's Group and Role Membership
 4.08 Granting Crowd Administration Rights to a User
- 4.09 Using the Group Browser and Role Browser
- 4.10 Adding a Group or Role

5. System Administration

This page last changed on Mar 12, 2007 by rosie@atlassian.com.

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - ° <u>5.2.4 Token Seed</u>
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.1 Viewing Crowd's System Information

This page last changed on Feb 19, 2008 by smaddox.

Crowd provides a useful summary of your server's system information, including:

- · Time and date information
- · Java version
- Location of your Crowd Home directory
- Memory usage
- · Application server details
- Database information
- Server ID (see <u>5.2.1 Licensing</u> for more details)

To view your Crowd server's system information,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'System Info' in the left-hand menu.

Screenshot: 'System Information'

System Information

Date: Wednesday, 20 Feb 2008

Time: 13:29:54

Timezone: Eastern Standard Time (New South Wales)

Java Version: 1.8.0_04

Java Vendor: Sun Microsystems Inc.

JVM Version: 10.0-b19

JVM Vendor: Sun Microsystems Inc.

JVM Runtime: Java HotSpot(TM) Client VM

Username: smaddox
Operating System: Windows XP5.1

Crowd Information

Home Directory: C:\data\crowd-home-beta2

JVM Statistics

Architecture:

 Total Memory:
 47 MB

 Used Memory:
 26 MB

 Free Memory:
 20 MB

Database Information

JDBC URL: jdbc:hsqldb:c:/data/crowd-home-beta2/database/defaultdb

JDBC Driver: org.hsqldb.jdbcDriver

JDBC Username: sa

Hibernate Dialect: org.hibernate.dialect.HSQLDialect

Runtime Information

Application Server: Apache Tomcat/5.5.25

Version: 1.3-SNAPSHOT

 Build Number:
 212

 Build Date:
 Nov 30, 2007

License Information

License Server ID: AGZS-AGZS-AGZS-AGZS

RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling

Performance Profiling

5.2 Configuring Server Settings

This page last changed on Apr 02, 2007 by rosie@atlassian.com.

You can alter the settings which were specified when your Crowd server was installed:

- 5.2.1 Licensing
- 5.2.2 Deployment Title
- 5.2.3 Domain
- 5.2.4 Token Seed
- 5.2.5 Session Configuration
- <u>5.2.6 Caching</u>
- 5.2.7 Compression of Server Output

Related Topics

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.2.1 Licensing

This page last changed on Feb 19, 2008 by smaddox.

Crowd licenses are based on the number of end-users who will log in to the applications that are integrated with Crowd.

You can obtain an evaluation license from the <u>Atlassian</u> website. When you obtain an evaluation license — or purchase, renew or upgrade your license — you will receive a license key via email or on the Atlassian website. You will need to enter your license key into your Crowd server as described below.



Note:

If the number of users who are allowed to log in to the Crowd framework exceeds the user license limit, no-one will be able to log in to any applications (other than the <u>Crowd Administration Console</u>). If this happens, you can obtain a temporary license from Atlassian.

To minimise your licensing cost:

- If you have more than one directory, ensure that the same user does not exist in multiple directories.
- We recommend that you allow only <u>particular groups</u> to log in to each application, rather than entire directories.

1 Note that a mapped application can 'see' all users in a directory, even if not all of them can log in to the application. For example, a Human Resources application might be mapped to your entire Active Directory server, but only the HR group is allowed to log in to the application.

To enter your license key,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Licensing' in the left-hand menu.
- 4. Type (or paste) your license key into the 'License' field.
- 5. Click the 'Update' button.

1 Your Server ID is generated automatically, based on your license key.

The Licensing screen shows the number of users who currently count towards your license. This total is updated automatically at regular intervals. If you have recently added or removed users, the total may not be up to date when you view the screen. You can update the count immediately, as described below.

To recalculate your user total,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Licensing' in the left-hand menu.
- 4. Click the link labelled 'Recalculate your user total'.

 The recalculation may take a while, depending on the size of your user base.

Screenshot: 'Licensing'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- <u>5.2 Configuring Server Settings</u>
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.2.2 Deployment Title

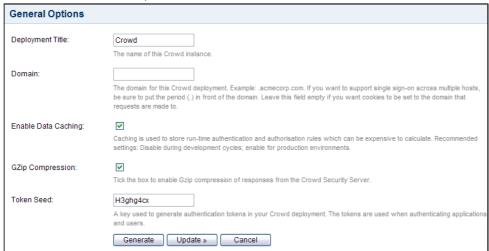
This page last changed on Feb 19, 2008 by smaddox.

The deployment title specifies a unique name for your Crowd instance. The deployment title can be used when sending email notifications.

To specify the deployment title,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. The 'General Options' screen will appear. Type the new name into the 'Deployment Title' field.
- 4. Click the 'Update' button.

Screenshot: 'General Options'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.2.3 Domain

This page last changed on Feb 19, 2008 by smaddox.

The domain is used when setting HTTP authentication cookies in a user's browser. If this attribute is not correct, single sign-on will not work when the user switches between applications.



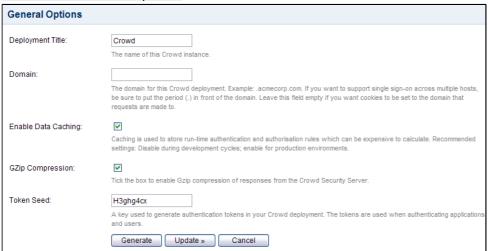
Note:

- When developing on your local machine, the domain should be set to localhost.
- If you wish to have single sign-on (SSO) support for *.mydomain.com, you will need to set the domain to .mydomain.com. Please note the full stop ('.') before the top-level-domain.

To specify the domain,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. The 'General Options' screen will appear. Type the new domain into the 'Domain' field.
- 4. Click the 'Update' button.

Screenshot: 'General Options'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - 5.2.3 Domain
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.2.4 Token Seed

This page last changed on Feb 19, 2008 by smaddox.

The token seed is a unique key for each site deployment of Crowd. This key is used when generating tokens for an authenticated application.

To specify the token seed,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. The 'General Options' screen will appear. Now you can either:
 - Type the new key into the 'Token Seed' field, then click the 'Update' button.
 OR
 - Click the 'Generate' button to create a random key automatically.

Screenshot: 'General Options'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.2.5 Session Configuration

This page last changed on Feb 19, 2008 by smaddox.

This page tells you how to set the $\underline{\text{timeout period for a session token}}$ and how to enable/disable $\underline{\text{in-memory token storage}}$.

Session Timeout

When a successful authentication occurs, for either an application or a user, a unique token is assigned. Tokens are valid for the period of time specified as the 'Session Timeout' attribute.

The session timeout determines how long a session will be considered valid during any period of inactivity. This value is specified in minutes and must be greater than 0.

To specify the session timeout,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Session Config' in the left-hand menu.
- 4. The 'Session Config' screen will appear, as shown <u>below</u>. Type the new value into the 'Session Timeout' field, then click the 'Update' button.

Authentication Token Storage

Authentication tokens are used to validate application and user sessions. A token is stored for each active session. By default, they're kept in the Crowd database. Storing these tokens in memory can benefit performance, but with some significant drawbacks:

- Sessions will not be saved across Crowd restarts. If you restart Crowd, all your users will have to log in again.
- Clustering will not be possible. Atlassian does not officially support clustering Crowd, but a number of our customers are successfully using it in this manner.

Switching from database to in-memory token management does not require a restart of Crowd; nor will sessions be lost or validations failed. However, if you have lots of active sessions, and therefore lots of tokens, it can take some time to copy the token information. During this time, validation requests will be queued and Crowd will appear unresponsive to client applications.

As a guide, below are some benchmarks of time taken to switch from one form of token storage to the other. The measurements were taken on a quad-core Mac Pro, using a lightly-loaded PostgreSQL database:

Number of Tokens:	100	500	1000	5000	10000
Database -> Memory	0.1s	0.7s	1.2s	4.2s	8.2s
Memory -> Database	1.2s	4.8s	9.2s	45s	90s

To switch the token storage location,

- 1. Log in to the <u>Crowd Administration Console</u>.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Session Config' in the left-hand menu.
- 4. The 'Session Config' screen will appear, as shown <u>below</u>. Select one of the radio buttons next to Authentication Token Storage:

- 'Database Cache' This is the default option. Select it to store your tokens in the Crowd database. We recommend this option unless performance problems require in-memory storage.
- 'Memory Cache' Select this option to store your tokens in memory.
- 5. Click the 'Update' button.

Screenshot: 'Session Config'



RELATED TOPICS

- 3.7 Managing an Application's Session
- 4.04 Managing a User's Session
- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - ° <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.2.6 Caching

This page last changed on Feb 19, 2008 by smaddox.

Caching is used to store run-time authentication and authorisation rules, which can be expensive to calculate. We recommend that you turn caching off during development cycles, and enable caching for production use.

In Crowd, data caching occurs in two main areas:

- The Crowd server itself certain parts of the <u>Crowd Administration Console</u> application are stored in a local cache to improve performance.
- The applications that are connected to Crowd e.g. JIRA, Confluence and Bamboo. These
 applications can store user, group and role data in a local cache. This helps improve the performance
 of Crowd since these applications do not have to repeatedly request information from Crowd.
 Generally it is not necessary to configure application caching, although this depends on the size of
 your application deployments.

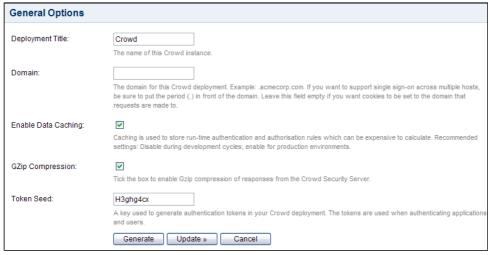
The configuration option described below manages both types of caching.

To fine-tune how caching works for your Crowd-integrated applications, please see <u>Configuring Caching</u> for an Application.

To enable data caching,

- 1. Log in to the <u>Crowd Administration Console</u>.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. The 'General Options' screen will appear. Put a tick in the 'Enable Data Caching' checkbox.
- 4. Click the 'Update' button.

Screenshot: 'Caching'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template

- 5.4 Backing Up and Restoring Data
 5.5 Logging and Profiling
 Performance Profiling

Configuring Caching for an Application

This page last changed on Feb 15, 2008 by smaddox.

In Crowd, data caching occurs in two main areas:

- The Crowd server itself certain parts of the <u>Crowd Administration Console</u> application are stored in a local cache to improve performance.
- The applications that are connected to Crowd e.g. JIRA, Confluence and Bamboo. These
 applications can store user, group and role data in a local cache. This helps improve the performance
 of Crowd since these applications do not have to repeatedly request information from Crowd.
 Generally it is not necessary to configure application caching, although this depends on the size of
 your application deployments.

To enable server caching, please see <u>5.2.6 Caching</u>.

To enable application caching,

- Edit the crowd-ehcache.xml file, which is located in the WEB-INF/classes directory of your application's Crowd client. The two main properties are:
 - o diskStore: If you have enabled disk persistence (diskPersistent="true") this is the location on the file system where Ehcache will store its caching information. By default it uses java.io.tmpdir which is Java's default temporary file location.
 - defaultCache: This property has many configurable options. Please read the <u>documentation</u> <u>provided by Ehcache</u> to fully understand the implications and possibilities with this property.
 Some basic features are described below.

Below is a small snippet of the crowd-ehcache.xml file.

Some basic features of defaultCache:

- eternal: This indicates that all elements in the cache will live for ever and that any time-outs will be ignored. It is strongly recommended that you set this to false.
- timeToIdleSeconds: This sets the maximum amount of time between an element being accessed and its expiry. If you set this value to 0, the element will idle indefinitely.
- timeToLiveSeconds: This set the maximum time between creation time of an element and its expiry. If you set this value to 0 it will live indefinitely.
- maxElementsInMemory: Sets the maximum number of elements that can be stored in the cache's memory. If this limit is reached, the default caching strategy LRU (Least Recently Used) will be invoked and those elements will be removed.

An element is anything stored in Crowd's cache: a user, a group, a list of users, a list of groups, a list of user memberships, a list of group memberships.

```
Hint: If you want to store everything in memory, try this value to start with:

(Number of users x 2) + (number of groups x 2)
```

RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings

 5.2.1 Licensing

 5.2.2 Deployment Title

 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration5.2.6 Caching

 - Configuring Caching for an Application
 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.2.7 Compression of Server Output

This page last changed on Feb 19, 2008 by smaddox.

By default, Crowd compresses the output from the security server, using the <u>Gzip</u> compression format, before sending the data to the client over the network. Compression of server output is optional. You can turn it on or off via the Crowd Administration Console.

Here are some reasons why you may want to turn compression off:

- It may be easier to debug problems using uncompressed data.
- · Some agents, such as older versions of Internet Explorer, have problems with the Gzip format.

To enable/disable compression of server output,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. The 'General Options' screen will appear. Set the 'Gzip Compression' option as follows:
 - Put a tick in the checkbox to instruct the Crowd Security Server to use Gzip compression when sending responses.
 - Leave the checkbox empty to instruct Crowd to send uncompressed data.

Screenshot: 'Setting the Compression of Server Output'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.3 Configuring SMTP Email

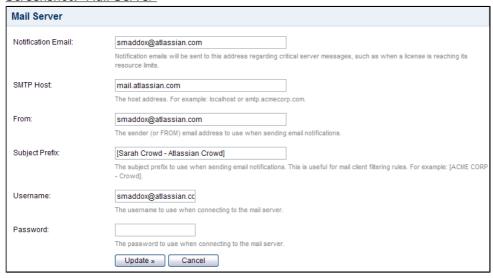
This page last changed on Feb 20, 2008 by smaddox.

Once you have configured SMTP email as described below, Crowd can send email notifications to users at specific events, such as when a <u>user's password</u> is reset or a server event occurs.

To configure SMTP email,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Mail Server' in the left-hand menu.
- 4. Enter the details of your mail server, and the username and password (if required) that Crowd will use to log in to your mail server, then click the 'Update' button:
- Notification Email The email address which will receive notifications about server events.
- SMTP Host The hostname of the SMTP mail server, e.g. 'localhost' or 'smtp.acme.com'.
- From The email address from which password notifications will be sent to users.
- Subject Prefix The prefix which will appear at the start of the email subject, for all emails generated by Crowd. This can be useful for email client programs that offer filtering rules.
- Username The username that your Crowd server will use when it logs in to your mail server.
- ullet Password The password that your Crowd server will use when it logs in to your mail server.
 - To customise the password notification message, please see <u>5.3.1 Creating an Email Notification Template</u>.

Screenshot: 'Mail Server'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling

Performance Profiling

5.3.1 Creating an Email Notification Template

This page last changed on Feb 19, 2008 by smaddox.

The email template is used when sending a notification to a user, e.g. when resetting a user's password.

To set up your email template,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Mail Template' in the left-hand menu.
- 4. Enter the text and macros that will be used to compose the body of the email message. The following macros are available:
 - ullet \$firstname will be replaced by the user's first name.
 - \$lastname will be replaced by the user's last name.
 - \$deploymenttitle will be replaced by the title of your Crowd deployment, as defined in <u>5.2.2</u> Deployment Title.
 - \$date will be replaced by the date/time of the message event.
 - \$password will be replaced by the user's new password.
- 5. Click the 'Update' button.

Screenshot: 'Mail Template'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - ° 5.2.2 Deployment Title
 - ° <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- 5.3 Configuring SMTP Email
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.4 Backing Up and Restoring Data

This page last changed on Feb 19, 2008 by smaddox.

You can back up your Crowd data by exporting it to an XML file. The data includes:

- Your Crowd server configuration details, including connection details for all your directories and applications.
- · Any internal directories that exist.
- Important Note about Crowd Backup Functionality

At present, Crowd does not allow you to schedule periodic backups. We do have an <a href="https://open.google.com/open.google.

- A periodic backup or dump of your database using tools provided by your database.
- A backup of your <u>Crowd Home directory</u> using external backup tools.

We recommend that you back up your data regularly, especially after any significant configuration changes. You should also perform regular backups of your <u>database</u>.

To back up your Crowd data,

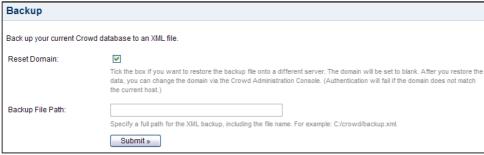
- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Backup' in the left-hand menu.
- 4. Select the 'Reset Domain' checkbox if the backup file will be restored onto a different server. Selecting 'Reset Domain' will reset the domain to blank. (After you restore the data, you can change the domain as described in <u>5.2.3 Domain</u>.)
- 5. Type an appropriate 'Backup File Path', including the name of the XML file.
- 6. Click the 'Submit' button.

To restore your Crowd data,

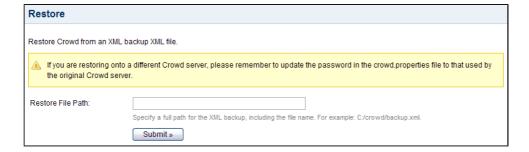
• Before you begin: If you created the XML backup file on a different server, edit the <code>crowd.properties</code> file and change the password to match the password of the server on which you created the XML backup file.

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Restore' in the left-hand menu.
- 4. In the 'Restore File Path' field, type the path to the backup file, including the name of the XML file.
- 5. Click the 'Submit' button.

Screenshot 1: 'Backup'



Screenshot 2: 'Restore'



RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title
 - <u>5.2.3 Domain</u>
 - 5.2.4 Token Seed
 - 5.2.5 Session Configuration
 - 5.2.6 Caching
 - Configuring Caching for an Application
 - 5.2.7 Compression of Server Output
- <u>5.3 Configuring SMTP Email</u>
 - 5.3.1 Creating an Email Notification Template
- 5.4 Backing Up and Restoring Data
- 5.5 Logging and Profiling
 - Performance Profiling

5.5 Logging and Profiling

This page last changed on Mar 02, 2008 by donna@atlassian.com.

When troubleshooting problems with your Crowd installation, it is often useful to change the level of information provided by your Crowd server so that more information, messages and warnings are shown than usual. This page describes how to:

- · Adjust the settings which affect Crowd's logging.
- · Enable performance profiling.

With performance profiling turned on, your system output console will show a record of the time it takes (in milliseconds) to complete each Crowd action. This will help with diagnosing performance problems. The resulting output will be large, so you should not enable it for long periods.

You can see an example of performance profiling output here.

On this page:

- · Summary of the Logging Levels
- Finding the Crowd Log File
- Changing the Log Settings
- · Configuring the Log Settings and Performance Profiling via the Administration Console
- Advanced Log Configuration
- Finding the Log Configuration File
 - Editing the Log Configuration File
 - Changing the Destination of the Crowd Log File
- Adjusting the Log Settings for CrowdID

Summary of the Logging Levels

Crowd uses Apache's <u>log4j</u> logging service. The amount of information written to the log file is determined by the logging 'level'. The type of message output at each level is as follows:

Level	Type of Message Written to the Log
DEBUG	Fine-grained information that is useful for debugging only. These are low-level details that most people never need to know about.
INFO	Informational messages about what Crowd is doing. Usually not interesting.
WARN	Warnings that something may have gone wrong, or other messages a system administrator may wish to know. These are conditions that, while not errors in themselves, may indicate that the system is running sub-optimally.
ERROR	Indications that something has gone wrong in Crowd. The person responsible for configuring Crowd should be notified.
FATAL	Indications that something has gone wrong so badly that the system cannot recover.
ALL	All possible log messages.

Finding the Crowd Log File

Provided that you have not changed the log file location from the default, the Crowd log file is at the following location:

- For Standalone installations of Crowd: {CROWD-STANDALONE-INSTALL}/atlassian-crowd.log
- For <u>WAR installations</u>: The directory on your application server, from which the Crowd application was started.

Changing the Log Settings

You can change the log settings in two ways:

- Set the logging levels at runtime via the Administration Console, as described <u>immediately below</u>. Your changes will be in effect only until you next restart Crowd.
- Or edit the log configuration file, as described in the <u>Advanced</u> section below. Your changes will take effect next time you start Crowd, and for all subsequent sessions.

Configuring the Log Settings and Performance Profiling via the Administration Console

0

If necessary, you can edit the configuration file directly

If you change the log settings via the Administration Console, the changes are not written to the <code>log4j.properties</code> file and are therefore discarded when you next stop Crowd. Also, not all logging behaviour can be changed via the Administration Console. For logging configuration not mentioned below, or to change the log settings permanently, you will need to stop Crowd and then edit the log configuration file instead.

The 'Logging & Profiling' screen tells you whether performance profiling is currently on or off, and shows a list of all currently defined loggers. On this screen you can:

• Turn performance profiling on or off.

With performance profiling turned on, your system output console will show a record of the time it takes (in milliseconds) to complete each Crowd action. This will help with diagnosing performance problems. The resulting output will be large, so you should not enable it for long periods.

You can see an example of performance profiling output here.

 Set the logging level for each class or package name, or reset all logging levels to the default setting.

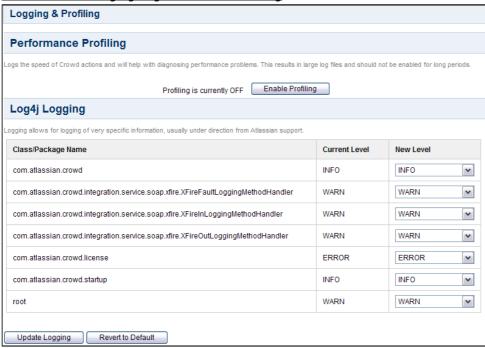
Refer to the section on logging levels <u>above</u>. Any changes made in this way will apply only to the currently-running Crowd lifetime.

To configure profiling and logging,

- 1. Log in to the Crowd Administration Console.
- 2. Click the 'Administration' tab in the top navigation bar.
- 3. Click 'Logging & Profiling' in the left-hand menu.
- 4. The 'Logging and Profiling' screen appears, as shown below. The screen has the following sections:
 - 'Performance Profiling' Click the 'Enable Profiling' button to turn profiling on, or 'Disable Profiling' to turn it off. (You will only see one of these buttons.)
 - 'Log4j Logging' This section shows the loggers currently in action for your Crowd instance.
 - You can change the logging level by selecting a value from the 'New Level' dropdown list.
 <u>Above</u> is a definition of each level. You can also read the <u>Apache documentation</u> for more information.
 - You can click the 'Revert to Default' button if you want to reset the logging levels to the values shipped with your Crowd installation.

5. Click the 'Update Logging' button to save any changes you have made in the 'Log4j Logging' section.

Screenshot: Changing Log Levels and Profiling



Description of the loggers:

Logger	Description
com.atlassian.crowd	This is the parent of the crowd package loggers. Any children which do not have a level assigned to them will inherit the level from their parent.
com.atlassian.crowdXFireFaultLoggingMeth	canarbe helpful if a Crowd SOAP service fault is thrown. It is best to enable DEBUG for all three XFire classes simultaneously when troubleshooting Crowd's SOAP service.
com.atlassian.crowdXFireOutLoggingMethod	时间电Crowd server outputs the incoming SOAP request method and parameters. This is useful when debugging your applications or monitoring the level of traffic for an integrated application.
com.atlassian.crowdXFireInLoggingMethodF	request method and parameters. This is useful when debugging your applications or monitoring the level of traffic for an integrated application.
com.atlassian.crowd.license	Useful for troubleshooting certain licensing issues in Crowd.
com.atlassian.crowd.startup	Can be helpful for troubleshooting startup errors in Crowd.
root	This is the root of the logger hierarchy, i.e. it is the parent of all loggers. The level assigned to the root will be the default level for any loggers which do not have a specific level and do not inherit from another parent.

Advanced Log Configuration

Terminology: In log4j, a 'logger' is a named entity. Logger names are case sensitive and follow a hierarchical naming standard. For example, the logger named com.foo is a parent of the logger named com.foo.Bar.

Finding the Log Configuration File

Crowd's logging behaviour is defined in the following properties file:

- For <u>Standalone installations</u> of Crowd: {CROWD-STANDALONE-INSTALL}/crowd-webapp/WEB-INF/classes/log4j.properties
- For WAR installations: {CROWD-WAR-INSTALL}/WEB-INF/classes/log4j.properties

This file is a standard log4j configuration file, as described in the Apache log4j documentation.

Editing the Log Configuration File

To configure the logging levels and other settings on a permanent basis:

- 1. Stop Crowd.
- 2. With a text editor, open the log4j.properties file in the location described above.
- 3. Adjust the output level to the required level of importance listed in the section on levels above.
- 4. Save the log4j.properties file.
- 5. Restart Crowd to have the new log settings take effect.

When diagnosing a server problem you need to adjust Crowd's package logging to:

log4j.logger.com.atlassian.crowd=DEBUG

Changing the Destination of the Crowd Log File

Terminology: In log4j, an output destination is called an 'appender'.

To change the destination of the Crowd log file:

- 1. Stop Crowd.
- 2. With a text editor, open the log4j.properties file in the location described above.
- 3. Look for the org.apache.log4j.RollingFileAppender entry in the 'Log File Locations' section of the file. This appender controls the default logging destination described <u>above</u>.
- 4. Edit the following line, and replace <code>atlassian-crowd.log</code> with the full path and file name for the required logging destination:
 - log4j.appender.filelog.File=atlassian-crowd.log.
- 5. Save the log4j.properties file.
- 6. Restart Crowd to have the new log settings take effect.

Adjusting the Log Settings for CrowdID

The Crowd Administration Console does not give access to the CrowdID log settings. To adjust the logging levels of the CrowdID OpenID server, you will need to modify the configuration file at this location:

- For <u>Standalone installations</u> of CrowdID: {CROWDID-STANDALONE-INSTALL}/crowd-openidserver-webapp/WEB-INF/classes/log4j.properties
- For WAR installations: {CROWDID-WAR-INSTALL}/WEB-INF/classes/log4j.properties

RELATED TOPICS

- 5.1 Viewing Crowd's System Information
- 5.2 Configuring Server Settings
 - 5.2.1 Licensing
 - 5.2.2 Deployment Title

- <u>5.2.3 Domain</u>
- 5.2.4 Token Seed
 5.2.5 Session Configuration
- <u>5.2.6 Caching</u>

- 5.2.6 Caching

 Configuring Caching for an Application
 5.2.7 Compression of Server Output

 5.3 Configuring SMTP Email

 5.3.1 Creating an Email Notification Template

 5.4 Backing Up and Restoring Data
 5.5 Logging and Profiling
 Porformance Profiling
- - Performance Profiling

Performance Profiling

This page last changed on Feb 24, 2008 by smaddox.

When troubleshooting problems with your Crowd installation, it is often useful to turn on performance profiling.

To enable profiling, go to the 'Logging & Profiling' tab under 'Administration' in the Crowd Administration Console. Full instructions are in the section on <u>logging and profiling</u>.

With performance profiling turned on, your system output console will show a record of the time it takes (in milliseconds) to complete each Crowd action. This will help with diagnosing performance problems. The resulting output will be large, so you should not enable it for long periods.

Here is an example of the performance profiling output, when search for and viewing a user via the Crowd Administration Console:

```
[16ms] - AOP: SecurityServer.findPrincipalByToken()
[16ms] - AOP: SecurityServer.isValidPrincipalToken()
[15ms] - AOP: DirectoryManager.searchDirectories()
[15ms] - AOP: SecurityServer.findPrincipalByToken()
[15ms] - AOP: SecurityServer.isValidPrincipalToken()
[15ms] - AOP: SecurityServer.isValidPrincipalToken()
 [15ms] - AOP: SOAPService.validateSOAPService()
[15ms] - AOP: SecurityServer.isValidPrincipalToken()
[16ms] - AOP: SecurityServer.getDomain()
  [16ms] - AOP: SOAPService.validateSOAPService()
[16ms] - AOP: DirectoryManager.addPrincipal()
[15ms] - AOP: DirectoryManager.findPrincipalByName()
[16ms] - AOP: DirectoryManager.searchRoles()
[15ms] - AOP: SecurityServer.isValidPrincipalToken()
  [15ms] - AOP: SOAPService.validateSOAPService()
[15ms] - AOP: SecurityServer.isValidPrincipalToken()
[16ms] - AOP: SecurityServer.findPrincipalByToken()
 [16ms] - AOP: DirectoryManager.findPrincipalByToken()
[281ms] - AOP: DirectoryManager.searchPrincipals()
[16ms] - AOP: SecurityServer.isValidPrincipalToken()
[15ms] - AOP: SecurityServer.findPrincipalByToken()
  [15ms] - AOP: DirectoryManager.findPrincipalByToken()
[16ms] - AOP: SecurityServer.isValidPrincipalToken()
[15ms] - AOP: DirectoryManager.findPrincipalByName()
[16ms] - AOP: DirectoryManager.findRoleMemberships()
[16ms] - AOP: SecurityServer.findPrincipalByToken()
```

[16ms] - AOP: DirectoryManager.findPrincipalByToken()

RELATED TOPICS

5.5 Logging and Profiling

This page last changed on Feb 15, 2008 by smaddox.

Connecting your own Web Applications or User Directories to Crowd

Crowd comes with a number of <u>application and directory connectors</u>. If you have a web application or a user directory which does not use a pre-supplied connector, your development team can create a custom connector for you.

This is a reasonably quick and easy job.

Skills Required to Write a Custom Connector for Crowd

- · Familiarity with HTTP/webserver technology.
- Familiarity with the concepts of identity management, authentication and authorisation.
- Programming skills to write an application connector:
 - Medium-level experience with the Java programming language.
 - Or you can use our SOAP API in combination with a language like PHP, Ruby, etc. You need a medium-level understanding of SOAP APIs.
- · Programming skills to write a directory connector:
 - Medium-level experience with the Java programming language.

Getting Help

- Atlassian partners can help you to write a custom connector and get your applications up and running. We recommend <u>CustomWare</u> and <u>Appfire Technologies</u>.
- · Consult the online Crowd documentation.
- Ask questions and share tips in the Atlassian forum.
- If you have a problem with Crowd, log a ticket at <u>Atlassian Support</u>.

 Atlassian does not support customised Crowd source.

Writing the Connectors

- Creating a custom application connector
- Creating a custom directory connector

More Information on Extending Crowd

You can access Crowd through our APIs to manipulate data or integrate with your custom web applications and user directories, as described above. You can even customise the Crowd source, to change the way things work or add an entirely new feature.

To help you get started:

- When you download Crowd, you also get the source code of a demo application.
- · Read the guidelines on setting up your IDE.
- For ideas, take a look at what other people are doing.
- We supply full API documentation.



A 'principal' is a 'user'

In Crowd, the term 'principal' is equivalent to the term 'user'. In Crowd 1.3.0 and later, the Crowd Administration Console uses the term 'user'. Earlier versions of Crowd, and also certain API libraries, use the term 'principal'.

Creating a Crowd Client for your Custom Application

This page last changed on Feb 15, 2008 by smaddox.

Crowd allows your applications to authenticate users against Crowd's user directories.

Crowd ships with ready-made connectors ('Crowd Clients') for several popular applications (see 1.1.1 Supported Applications and Directories for the complete list). If you need to connect Crowd to one of these applications, please see 3. Managing Applications. If you need to connect Crowd to an application that is not listed, you can achieve this by creating a Crowd Client for your application, using the SOAP API.

Creating a Crowd Client

Crowd ships with <u>Java Client Libraries</u> which simplify the process of communicating with the SOAP API. If you have a Java application, you can use these libraries. If you are using a language other than Java (e.g. PHP, Ruby, etc), please use the **SOAP API** directly.

For assistance please see:

- Application Integration Overview
 - Sample Application ('demo')
- Java Integration Libraries
 - Compiling the Crowd Source
 - Maven 2 Integration
- SOAP API
 - Axis Client Stub Generation
 - Microsoft .NET Client
- A 'principal' is a 'user'

In Crowd, the term 'principal' is equivalent to the term 'user'. In Crowd 1.3.0 and later, the Crowd Administration Console uses the term 'user'. Earlier versions of Crowd, and also certain API libraries, use the term 'principal'.

Next Steps:

After creating your Crowd Client, please see 3.2.11 Integrating Crowd with a Custom Application.

Related Topics

- · Creating a Crowd Client for your Custom Application
 - Application Integration Overview
 - Sample Application ('demo')
 - Java Integration Libraries
 - Compiling the Crowd Source
 - Maven 2 Integration
 - SOAP API
 - Axis Client Stub GenerationMicrosoft .NET Client
- Creating a Custom Directory Connector
- Crowd Developer FAQ
- IntelliJ IDEA Setup Guide
 - Setting up Tomcat in IDEA for Crowd

Application Integration Overview

This page last changed on Mar 29, 2007 by rosie@atlassian.com.

The Crowd framework allows an application to perform authentication and authorisation calls against a mapped directory, including:

- Authenticate a principal (i.e. a user).
- · Validate and invalidate an existing principal authentication.
- Find a principal by their authentication token.
- · Search principals, groups and roles by name or attributes
- · Add principals, groups and roles.
- · Validate a principal's group and role membership.
- · Add and remove principals from groups and roles.
- · Update a principal's attribute data.
- Update or reset a principal's authentication credentials.

Crowd's application provisioning allows an application to be <u>mapped to multiple directories</u>. When an application needs to authenticate or authorise a principal, Crowd will call the directory listed first. If the security call can be processed by the directory, the operation will then return the result. If the call cannot be processed, the next directory in the list will then be used when processing the security call until all directories have been exhausted. If the security call cannot be processed, an <code>Exception</code> (based on the method) will be thrown.

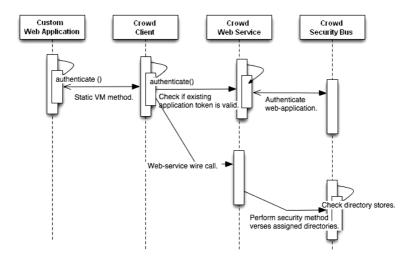
Integration Overview

When an application needs to perform a security request (that is, needs to authenticate or authorise a user) via Crowd's API, the following two steps need to occur:

- 1. The application authenticates itself with Crowd; the authentication token may be reused by the application during subsequent calls. During this step, Crowd validates the application's credentials and address against known application credentials/addresses.
- 2. Using the authenticated token from the previous step, the application then performs the security request for a particular user.

Should the application's requesting token become invalid, the client library will attempt to re-authenticate and perform the security request. If the second authentication request fails, an Exception will be thrown, specifying that the application's credentials are invalid.

<u>Diagram — Application Authorisation Sequence:</u>



Next Step

• If you are using the <u>Java Integration Libraries</u>, the application authorisation sequence above is fully handled by the supplied Java implementation.

• If you are using the <u>SOAP interface</u>, you will need to explicitly implement each step of the application authorisation sequence. As an example, please see the <u>Microsoft .NET Client</u>.

Related Topics

- Application Integration Overview
 Sample Application ('demo')
- Java Integration Libraries
 - Compiling the Crowd Source
 - Maven 2 Integration
- SOAP API
 - Axis Client Stub Generation
 - Microsoft .NET Client

Crowd Documentation

Sample Application ('demo')

This page last changed on Aug 14, 2007 by rosie@atlassian.com.

To assist you when integrating your web applications, the entire sourcecode to the sample 'demo' application is included in the \mathtt{src} folder of the Crowd download archive, and is (optionally) configured when you run the <u>Setup Wizard</u>.

The 'demo' application highlights best practices when using the Crowd framework, and can be used as an example when integrating your own web applications.

0

To access the 'demo' application, go to http://localhost:8095/demo.

Related Topics

- Application Integration Overview
 - Sample Application ('demo')
- Java Integration Libraries
 - Compiling the Crowd Source
 - Maven 2 Integration
- SOAP API
 - Axis Client Stub Generation
 - Microsoft .NET Client

Crowd Documentation

Java Integration Libraries

This page last changed on Feb 17, 2008 by smaddox.

This page provides sample code for creating a Crowd Client using the supplied Java Integration Libraries.

SecurityServerClient

The SecurityServerClient is useful for common create, update and delete operations for principals, groups and roles. To accomplish this, the SecurityServerClient maps 1-to-1 with the SOAP API of the Crowd server. The class reads in the crowd.properties configuration file from your application's class path, setting client specific details such as the Crowd server URL and SSO integration details. When the client is loaded into memory, it will then authenticate the the client application with the Crowd security server for future SOAP requests.

A full list of the available methods for the SecurityServerClient is available here:

 http://docs.atlassian.com/crowd/current/com/atlassian/crowd/integration/service/soap/client/ SecurityServerClient.html

HttpAuthenticator

The HttpAuthenticator simplifies the authentication of HTTP based clients. When an authentication or invalidation is performed, the HttpAuthenticator manages the setting and resetting of integration variables for the principal's HTTP session. If the application has little need beyond authentication and validation, the HttpAuthenticator is a simple and very straightforward integration piece. Shown below is a code example of authenticating and logging off a principal:

Example 1:

 $\label{thm:linear} \mbox{HttpAuthenticator().authenticate(request, response, username, password);}$

Example 2:

HttpAuthenticatorFactory.getHttpAuthenticator().logoff(request, response);

If there were any issues with the authentication or logoff calls, an Exception will be thrown to the application.

The HttpAuthenticator manages the following:

- Authenticating an HTTP request, and setting the session with the correct attributes for other integration points of the framework.
- Invalidating an HTTP request includes removing session related attributes.
- Obtaining a principal's authenticated token from a session or browser cookie.
- Validating an existing HTTP authentication for single sign-on. If another application in the same domain has already authenticated the principal, the HttpAuthenticator will attempt to validate the existing authentication.
- Building a standard AuthenticationContext for a principal. This can be used to assure the authentication is consistent across all applications when setting validation factors of the application client.

Note both the HttpAuthenticatorFactory and SecurityServerClientFactory manage singleton instances of the HttpAuthenticator and SecurityServerClient implementations respectively. You should never need to instantiate the HttpAuthenticator or SecurityServerClient manually.



If you are using an Inversion-of-Control / Dependency-Injection container in your web application (such as <u>Spring</u>) to manage your singletons, read the information about dependency injection <u>lower down the page</u>.

VerifyTokenFilter

The <code>VerifyTokenFilter</code> is an HTTP servlet filter that protects secured resources by verifying the session or cookie token is active and the principal has access to the requesting application. The token filter works in conjunction with the <code>HttpAuthenticator</code>, validating and setting various session and cookie attributes. Should the principal's token become expired or invalid due to security restrictions, the principal will be redirected to the <code>URL</code> provided by the <code>crowd.properties</code>.

Using the token filter is very straight forward, simply edit your web.xml deployment descriptor to reflect the filter and desired resource mapping:

```
<filter>
    <filter-name>VerifyTokenFilter</filter-name>
    <filter-class>com.atlassian.crowd.integration.http.VerifyTokenFilter</filter-class>
</filter>
<filter-mapping>
    <filter-name>VerifyTokenFilter</filter-name>
    <url-pattern>/secure/*</url-pattern>
</filter-mapping></filter-mapping>
```

In this example, the verify token filter will prevent any pages on the /secure/ path from being accessed unless a valid token is found.

Should the token expire or be found invalid, the original URL will be stored in the principal's session at a String with the key of VerifyTokenFilter.ORIGINAL_URL. This is useful because, when the principal later authenticates, the original URL and parameters can then be used as a redirect bringing the principal back to their original POST. An example of how this can be accomplished at login is shown below:

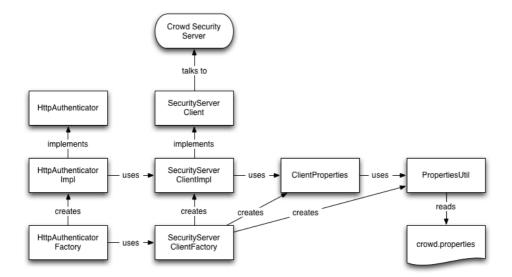
```
HttpAuthenticatorFactory.getHttpAuthenticatory().authenticate(request, response, username, password);

// Check if principal was requesting a page that was prevented, if so, redirect.
String requestingPage = (String) getSession().getAttribute(VerifyTokenFilter.ORIGINAL_URL);

if (requestingPage != null) {
    // redirect the principal to the requesting page response().sendRedirect(requestingPage);
} else {
    // return the to the login page return SUCCESS;
}
```

Using dependency injection?

If you are using a dependency injection container which manages singleton instances, rather than using the SecurityServerClientFactory and HttpAuthenticatorFactory to manage singletons, you can wire up the objects themselves as shown in the following diagram:



Please use EITHER dependency injection OR the factories. Using both will result in multiple instances being maintained throughout your application.

If you are using <u>Spring</u> for dependency injection, a convenient applicationContext-CrowdClient.xml has been provided in the crowd-integration-client.jar. This Spring configuration file wires up the HttpAuthenticator and SecurityServerClient factory as beans named httpAuthenticator and securityServerClient respectively.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN 2.0//EN" "http://www.springframework.org/dtd/spring-
beans-2.0.dtd">
<beans>
    <bean id="propertyUtils" class="com.atlassian.crowd.util.PropertyUtils"/>
    <bean id="clientProperties"</pre>
 class="com.atlassian.crowd.integration.service.soap.client.ClientProperties">
        <constructor-arg ref="propertyUtils"/>
    </bean>
    <bean id="securityServerClient"</pre>
 class="com.atlassian.crowd.integration.service.soap.client.SecurityServerClientImpl">
        <constructor-arg ref="clientProperties"/>
    </bean>
    <bean id="httpAuthenticator"</pre>
 class="com.atlassian.crowd.integration.http.HttpAuthenticatorImpl">
        <constructor-arg ref="securityServerClient"/>
    </bean>
    <bean id="verifyTokenFilter" class="com.atlassian.crowd.integration.http.VerifyTokenFilter"</pre>
 lazy-init="true">
        <constructor-arg ref="httpAuthenticator"/>
    </bean>
    <bean id="crowdAuthenticationInterceptor"</pre>
 class="com.atlassian.crowd.integration.xwork.CrowdAuthenticationInterceptor" lazy-init="true">
        <constructor-arg ref="httpAuthenticator"/>
    </bean>
```

</beans>

To use a Spring-injected <code>VerifyTokenFilter</code> change the filter definition in your <code>web.xml</code> to:

```
<filter>
    <filter-name>verifyTokenFilter</filter-name>
    <filter-class>org.springframework.web.filter.DelegatingFilterProxy</filter-class>
</filter>
```

Related Topics

- Application Integration Overview
 - Sample Application ('demo')
- <u>Java Integration Libraries</u>
 - Compiling the Crowd Source
 - Maven 2 Integration
- SOAP API
 - Axis Client Stub Generation
 - Microsoft .NET Client

Crowd Documentation

Compiling the Crowd Source

This page last changed on Dec 11, 2007 by justen.stepka@atlassian.com.

To compile the Crowd source code you will need to have Maven 2 installed.

Once you have installed Maven 2, you will then need to do the following:

- Copy or merge the /atlassian-crowd-1.2.0-source/maven/conf/settings.xml with your ~/.m2/ settings.xml maven 2 configuration file.
- 2. Install the JTA library available from Sun Microsystem's website into your local maven 2 repository

```
Missing:
1) javax.transaction:jta:jar:1.0.1B
  Try downloading the file manually from:
      http://java.sun.com/products/jta
  Then, install it using the command:
      mvn install:install-file -DgroupId=javax.transaction -DartifactId=jta \
          -Dversion=1.0.1B -Dpackaging=jar -Dfile=/path/to/file
Alternatively, if you host your own repository you can deploy the file there:
                                                                                     mvn
 deploy:deploy-file -DgroupId=javax.transaction -DartifactId=jta \
          -Dversion=1.0.1B -Dpackaging=jar -Dfile=/path/to/file \
           -Durl=[url] -DrepositoryId=[id]
  Path to dependency:
       1) com.atlassian.crowd:crowd-core:jar:1.2.0
        2) javax.transaction:jta:jar:1.0.1B
1 required artifact is missing.
for artifact:
  com.atlassian.crowd:crowd-core:jar:1.2.0
from the specified remote repositories:
  central (http://repol.maven.org/maven2),
  atlassian-ml-repository (http://repository.atlassian.com),
  atlassian-proxy (https://m2proxy.atlassian.com/repository/public)
```

Once you have completed this you will be able to then run the command ${\tt mvn}$ compile.

Maven 2 Integration

This page last changed on Feb 17, 2008 by shamid.

To integrate Crowd with your Maven 2 project, you will need to include the following dependency in your pom.xml:

Because the Crowd libraries are not published to the standard Maven repository, you will need to add Atlassian's public repository:

This page last changed on Nov 21, 2007 by smaddox.

This page provides sample code for creating a Crowd Client using the SOAP API.



The Crowd API has been tested with: Axis 1/2, Microsoft .NET and XFire.

The SOAP WSDL is available on the following URL for the Crowd Standalone version (after you have downloaded and <u>installed</u> Crowd Standalone):

http://localhost:8095/crowd/services/SecurityServer?wsdl

The Java Remote Interface that is used to generate the SOAP service is available here:

 http://docs.atlassian.com/crowd/current/com/atlassian/crowd/integration/service/soap/server/ SecurityServer.html

This JavaDoc file details inputs and outputs for the available Crowd security server SOAP server. You will see that all methods require an AuthenticatedToken. A valid token can be obtained by calling the authenticateApplication service method.

Like a user token, the application client token is valid only for the same period of time a user token would be. If you receive a SOAP fault for an invalid application client you will need to re-authenticate your application client and re-invoke the SOAP service.

Crowd ships with out of the box <u>Java Integration Libraries</u> that map one-to-one to these web services.

authenticateApplication - Authenticating an Application Client

Here is the server request which passes in the server name and a password credential.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://</pre>
www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
        <soap:Body>
                <authenticateApplication xmlns="urn:SecurityServer">
                         <in0>
                                  <credential xmlns="http://</pre>
authentication.integration.crowd.atlassian.com">
                                          <credential>password</credential>
                                 </credential>
                                 <name xmlns="http://</pre>
authentication.integration.crowd.atlassian.com">jira</name>
                                 <validationFactors xmlns="http://</pre>
authentication.integration.crowd.atlassian.com" xsi:nil="true" />
                         </in0>
                </authenticateApplication>
        </soap:Body>
</soap:Envelope>
```

The server will respond with an application token:

authenticatePrincipal - Authenticating a Principal

In this message the principal is authenticated using the previously obtained application token.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://</pre>
www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
        <soap:Body>
                 <authenticatePrincipal xmlns="urn:SecurityServer">
                         <in0>
                                  <name xmlns="http://</pre>
authentication.integration.crowd.atlassian.com">jive</name>
                                  <token xmlns="http://</pre>
authentication.integration.crowd.atlassian.com">9vN5haaWY+xGBs3XitgAIg==</token>
                         </in0>
                         <in1>
                                  <application xmlns="http://</pre>
authentication.integration.crowd.atlassian.com">jive</application>
                                  <credential xmlns="http://</pre>
authentication.integration.crowd.atlassian.com">
                                          <credential>password</credential>
                                  </credential>
                                  <name xmlns="http://</pre>
authentication.integration.crowd.atlassian.com">jstepka</name>
                                  <validationFactors xmlns="http://</pre>
authentication.integration.crowd.atlassian.com" />
                         </in1>
                 </authenticatePrincipal>
        </soap:Body>
</soap:Envelope>
```

The server then responds with the token for the now authenticated user:

An invalid authentication attempt will look like the following:

findPrincipalByToken - Finding a Principal by their Authenticated Token

Now that the principal is authenticated, we may want to find additional details about the principal. With the authenticated principal token, the application can now look up a user by a token or their name. The example below shows looking up a principal by their authenticated token:

The server lookup response for the principal token:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://</pre>
www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
   <soap:Body>
        <findPrincipalByNameResponse xmlns="urn:SecurityServer">
                <ID xmlns="http://soap.integration.crowd.atlassian.com">-1</ID>
                <active xmlns="http://soap.integration.crowd.atlassian.com">true</active>
                <attributes xmlns="http://soap.integration.crowd.atlassian.com">
                    <SOAPAttribute>
                        <name>sn</name>
                            <ns1:string xmlns:ns1="urn:SecurityServer">Stepka</ns1:string>
                        </values>
                    </SOAPAttribute>
                    <SOAPAttribute>
                        <name>invalidPasswordAttempts
                        <values>
                            <ns1:string xmlns:ns1="urn:SecurityServer">0</ns1:string>
                        </values>
                    </SOAPAttribute>
                    <SOAPAttribute>
                        <name>requiresPasswordChange
                            <nsl:string xmlns:nsl="urn:SecurityServer">false</nsl:string>
                        </values>
```

```
</SOAPAttribute>
                    <SOAPAttribute>
                        <name>mail</name>
                        <values>
  <ns1:string xmlns:ns1="urn:SecurityServer">justen.stepka@atlassian.com</ns1:string>
                        </values>
                    </SOAPAttribute>
                    <SOAPAttribute>
                        <name>lastAuthenticated
                        <values>
                            <ns1:string xmlns:ns1="urn:SecurityServer">1169440408520</ns1:string>
                        </values>
                    </SOAPAttribute>
                    <SOAPAttribute>
                        <name>givenName</name>
                            <ns1:string xmlns:ns1="urn:SecurityServer">Justen</ns1:string>
                        </values>
                    </SOAPAttribute>
                    <SOAPAttribute>
                        <name>passwordLastChanged</name>
                            <ns1:string xmlns:ns1="urn:SecurityServer">1168995491407</ns1:string>
                        </values>
                    </SOAPAttribute>
                </attributes>
                <conception xmlns="http://</pre>
soap.integration.crowd.atlassian.com">2007-01-17T11:58:11+11:00</conception>
                <description xmlns="http://soap.integration.crowd.atlassian.com" xsi:nil="true"/>
                <directoryID xmlns="http://soap.integration.crowd.atlassian.com">1</directoryID>
                <lastModified xmlns="http://</pre>
soap.integration.crowd.atlassian.com">2007-01-17T18:38:51+11:00
                </lastModified>
                <name xmlns="http://soap.integration.crowd.atlassian.com">jstepka</name>
            </out>
        </findPrincipalByNameResponse>
    </soap:Body>
</soap:Envelope>
```

Related Topics

- Application Integration Overview
 - Sample Application ('demo')
- Java Integration Libraries
 - Compiling the Crowd Source
 - Maven 2 Integration
- SOAP API
 - Axis Client Stub Generation
 - Microsoft .NET Client

Crowd Documentation

Axis Client Stub Generation

This page last changed on Apr 25, 2007 by justen.stepka@atlassian.com.

Generating client stubs with Axis can be accomplished by running this command:

```
java -cp "$AXISCLASSPATH" org.apache.axis.wsdl.WSDL2Java http://localhost:8095/crowd/services/
SecurityServer?wsdl
```

When the necessary objects are created off the Crowd server WSDL, you will end up with a directory structure similar to this:

```
drwxr-xr-x 6 jstepka jstepka 204 Apr 19 16:56 SecurityServer_pkg drwxr-xr-x 3 jstepka jstepka 102 Apr 19 16:55 com drwxr-xr-x 4 jstepka jstepka 136 Apr 19 17:05 java
```

When you attempt to compile the generated class files, you will end up with a compilation error similar to the following:

```
java/rmi/RemoteException.java:[10,7] cyclic inheritance involving java.rmi.RemoteException
java/rmi/RemoteException.java:[11,32] modifier private not allowed here
java/rmi/RemoteException.java:[12,29] modifier private not allowed here
java/rmi/RemoteException.java:[64,29] modifier private not allowed here
java/rmi/RemoteException.java:[86,20] modifier private not allowed here
java/rmi/RemoteException.java:[104,56] modifier private static not allowed here
com/atlassian/crowd/integration/exception/InvalidCredentialException.java:[26,30] incompatible types
```

To resolve these compile errors you will need to delete the generated java package.

The security server can then be used as below:

Microsoft .NET Client

This page last changed on Nov 11, 2007 by smaddox.



An <u>updated version of this library</u> has been made available through the Atlassian Codegeist competition.

You will need to create a .NET proxy to the SOAP API, as follows:

- 1. Open a Microsoft Visual Studio .NET Command Prompt.
- 2. Run the following command to generate a proxy class (change the location of the WSDL according to your installation):

wsdl /1:CS /protocol:SOAP http://localhost:8080/crowd/services/SecurityServer?wsdl

(Note: Ignore any schema validation warnings returned here.)

3. Compile the generated class with the following references:

```
csc /t:library /r:System.Web.Services.dll /r:System.Xml.dll SecurityServer.cs
```

This should generate a .NET assembly called SecurityServer.DLL.

When creating your .NET client application, remember to add a reference to this proxy. You will also need to add a reference to System. Web. Services. DLL.

The <u>sample code</u> calls methods from the proxy to perform authentication in a sample Crowd application. Change the constants at the top of the code relevant to any application you have previously set up in Crowd.

Related Topics

- Application Integration Overview
 - Sample Application ('demo')
- Java Integration Libraries
 - Compiling the Crowd Source
 - Maven 2 Integration
- SOAP API
 - Axis Client Stub Generation
 - Microsoft .NET Client

Crowd Documentation

Creating a Custom Directory Connector

This page last changed on Feb 15, 2008 by smaddox.

Crowd comes with a number of supplied directory connectors. If your directory is not listed in 1.1.1 Supported Applications and Directories then you will need to create your own custom directory connector.

Custom directory connectors allow developers to connect Crowd to custom user-stores, such as existing databases or legacy systems.

The directory connectors that come with Crowd implement the Java interface RemoteDirectory. The RemoteDirectory interface defines generic methods for authentication, searching and entity create, remove and update operations.

To connect Crowd to a custom directory server, you will need to write a Java class file that implements the RemoteDirectory interface.

In our example below, the MyCustomDirectoryServer class extends the Crowd DirectoryEntity utility class. The utility class manages setting runtime properties that may be used by the Crowd server in the future for operations such as getting the Crowd ID number of the directory server.

```
package com.atlassian.crowd.integration.directory.custom;
import com.atlassian.crowd.integration.SearchContext;
import com.atlassian.crowd.integration.authentication.PasswordCredential;
import com.atlassian.crowd.integration.directory.RemoteDirectory;
import com.atlassian.crowd.integration.exception.*;
import com.atlassian.crowd.integration.model.DirectoryEntity;
import com.atlassian.crowd.integration.model.RemoteGroup;
import com.atlassian.crowd.integration.model.RemotePrincipal;
import com.atlassian.crowd.integration.model.RemoteRole;
import java.rmi.RemoteException;
import java.util.List;
public class MyCustomDirectoryServer extends DirectoryEntity implements RemoteDirectory
    public RemotePrincipal authenticate(String name, PasswordCredential[] credentials) throws
RemoteException,
            InvalidPrincipalException, InactiveAccountException, InvalidAuthenticationException {
        // Perform your custom directory server authentication code here.
        // The source code to the InternalDirectory, which comes with your commercial license is a
 good implementation example.
    // Other RemoteDirectory interface methods will also need to be implemented ...
}
```

Once you have finished implementing all of the methods defined by the RemoteDirectory interface, you will then need to:

- 1. Create a JAR of the MyCustomDirectoryServer and any supporting class files.
- 2. Shut down Crowd.
- 3. Place the newly-created JAR from step one in the CROWD/crowd-webapp/WEB-INF/lib folder.
- 4. Start Crowd.
- 5. Follow the instructions on <u>configuring a custom directory connector</u> through the Crowd Administration Console.



Full Javadoc for the RemoteDirectory interface can be found here: http://docs.atlassian.com/crowd/current/com/atlassian/crowd/integration/directory/RemoteDirectory.html.

A 'principal' is a 'user'

In Crowd, the term 'principal' is equivalent to the term 'user'. In Crowd 1.3.0 and later, the Crowd Administration Console uses the term 'user'. Earlier versions of Crowd, and also certain API libraries, use the term 'principal'.

Next Steps

After creating your directory connector, please see 2.2.3 Configuring a Custom Directory Connector.

Related Topics

- Creating a Crowd Client for your Custom Application
 - Application Integration Overview
 - Sample Application ('demo')
 - Java Integration Libraries
 - Compiling the Crowd SourceMaven 2 Integration
 - SOAP API
 - Axis Client Stub Generation
 - Microsoft .NET Client
- Creating a Custom Directory Connector
- Crowd Developer FAQ
- IntelliJ IDEA Setup Guide
 - Setting up Tomcat in IDEA for Crowd

Crowd Documentation

Crowd Developer FAQ

This page last changed on Dec 17, 2007 by jnolen.

IntelliJ IDEA Setup Guide

This page last changed on Feb 21, 2008 by donna@atlassian.com.



Atlassian does not support customised Crowd source

This document is intended to serve as an IntelliJ IDEA setup guide for those who have a Crowd source license and wish to customise Crowd 1.2.2 or later. For support beyond this document, please refer to our online forum.

Prerequisites

- 1. IntelliJ IDEA 6 or greater is installed.
- 2. JDK 1.5 or greater is installed.
- 3. Tomcat 5 or greater is installed. We will refer to the Tomcat root folder as TOMCAT.
- 4. MySQL 5 or greater is installed. Any <u>Crowd-supported database server</u> will work. This guide will assume you are using MySQL.
- 5. MySQL Connector/J 5.1 JDBC or greater is downloaded. We will refer to the extracted archive path as JDBC.
- 6. Maven 2.0.7 or greater is installed.
- 7. The latest <u>Crowd source</u> (version 1.2.2 or greater) is downloaded and extracted. We will refer to this extracted archive path as SOURCE.

Step 1. Configure MySQL

- 1. Create a database user which Crowd will connect as (e.g. crowduser).
- 2. Create a database for Crowd to store data in (e.g. crowddb).
- 3. Ensure that the user has permission to connect to the database, and to create and populate tables.

Step 2. Configure Tomcat

- 1. Copy the JDBC/mysql-connector-java-5.x.x-bin.jar to the TOMCAT/common/lib/ directory.
- 2. Copy the <MAVEN_REPOSITORY>/repository/javax/transaction/jta/1.0.1B/jta-1.0.1B.jar to the TOMCAT/common/lib/ directory.
- 3. Copy the <MAVEN_REPOSITORY>/repository/javax/activation/jaf/1.1/jaf-1.1.jar to the TOMCAT/common/lib/directory.
- 4. Copy the <MAVEN_REPOSITORY>/repository/javax/mail/mail/1.4/mail-1.4.jar to the TOMCAT/common/lib/directory.
- 5. Edit the TOMCAT/conf/context.xml configuration file to add a global JNDI JDBC connection. Make sure to customise the username and password for your specific environment.

Step 3. Run the Maven Build Commands

- 1. Copy (or merge) the SOURCE/maven/conf/settings.xml to your ~/.m2 directory.
- 2. Run the following Maven command in the root source directory (normally called atlassian-crowd-x.x.x-source) to download the project dependencies (otherwise known as download the Internet):

mvn clean install -Dmaven.test.skip

1 The download may take a few hours when you do it for the first time. If this build is successful, run the following Maven command:

mvn idea:idea -Dmaven.test.skip

Step 4. Configure IntelliJ IDEA

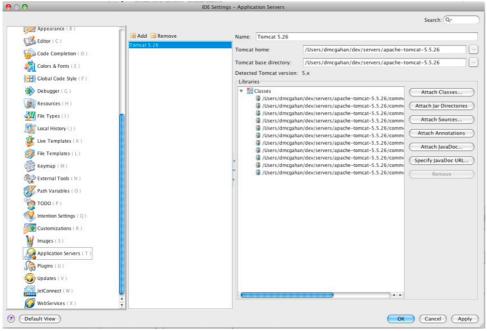
- 1. Open the SOURCE/atlassian-crowd.ipr with IntelliJ IDEA.
- 2. Edit the SOURCE/atlassian-crowd/crowd-web-app/src/main/resources/jdbc.properties configuration file and change hibernate.dialect to org.hibernate.dialect.MySQLDialect.
- 3. Edit the SOURCE/atlassian-crowd/crowd-web-app/src/main/resources/crowd.properties configuration file and change application.login.url to contain the port and IP address you have configured Tomcat to run on. The default is localhost:8080.
- 4. Configure IntelliJ IDEA to have a new TOMCAT runtime configuration for the crowd-web-app module.

Setting up Tomcat in IDEA for Crowd

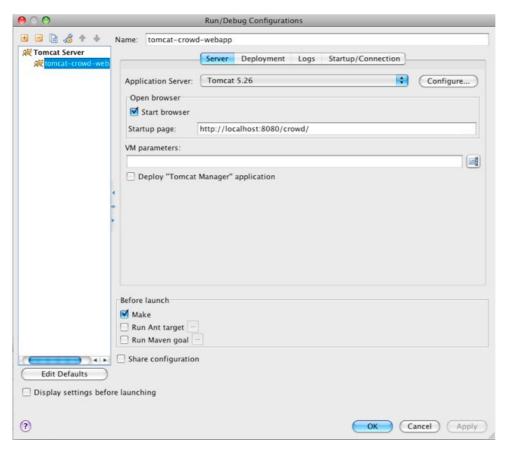
This page last changed on Feb 11, 2008 by donna@atlassian.com.

This guide assumes that you are running IDEA 7.x and that you have already installed and tested Tomcat 5.25 or greater.

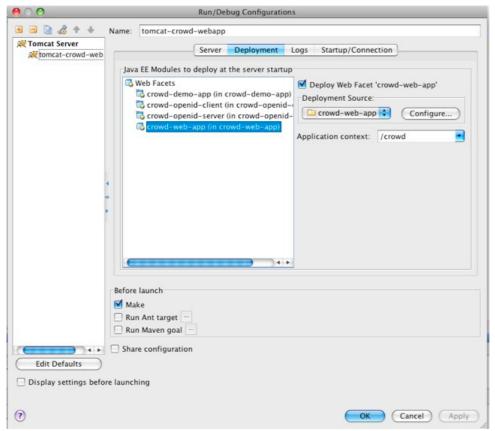
1. Set up Tomcat as one of your application servers on this IDEA screen (Preferences -> IDE Settings -> Application Servers).



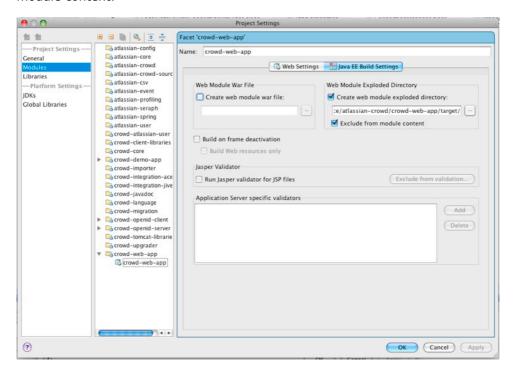
2. Add a new IDE configuration (Run -> Edit Configurations) called tomcat-crowd-webapp that uses the Tomcat application server added in the last step.



3. Click the Deploy tab. Select to deploy the crowd-webapp module. Once this is done, click the Configure button.



4. Select the Java EE Build Settings tab. Check Create web module exploded directory and Exclude from module content.



Crowd Installation & Upgrade Guide

This page last changed on Mar 12, 2007 by rosie@atlassian.com.

- Crowd Release Notes Installing Crowd Upgrading Crowd

Crowd Release Notes

This page last changed on Aug 13, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

Installation

Information for installing Crowd can be found here. If upgrading from a previous version, please follow the Upgrade Guide.

Crowd Release Notes

- Crowd 1.3 Release Notes
- Crowd 1.3 Beta Release Notes
- Crowd 1.2 Release Notes
- Crowd 1.2.2 Release Notes
- Crowd 1.2.1 Release Notes
- Crowd 1.1.2 Release Notes
- Crowd 1.1.1 Release Notes
- Crowd 1.1.0 Release Notes
- Crowd 1.0.7 Release Notes
- Crowd 1.0.6 Release Notes
- Crowd 1.0.5 Release Notes
- Crowd 1.0.4 Release Notes
- Crowd 1.0.3 Release Notes
- Crowd 1.0.2 Release Notes
- Crowd 1.0.1 Release Notes
- Crowd 1.0.0 Release Notes
- Crowd 0.4 Beta Release Notes
- Crowd 0.4.5 Beta Release Notes
- Crowd 0.4.4 Beta Release Notes
- Crowd 0.4.3 Beta Release Notes
- Crowd 0.4.2 Beta Release Notes
- Crowd 0.4.1 Beta Release Notes
- Crowd 0.3 Beta Release Notes
- Crowd 0.3.3 Beta Release Notes
- Crowd 0.3.2 Beta Release Notes
- Crowd 0.2 Beta Release Notes

Crowd 0.2 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

Crowd 0.2

- Standalone version Tomcat 5.5 with HSQL .zip (59.5Mbs)
- Standalone version Tomcat 5.5 with HSQL .tar.gz (59.7Mbs)

Points of Interest

- There is an error when unzipping on the Windows platform, the archive integrity is fine and this will be fixed for the 0.3 release.
- The focus of this distribution is for JIRA and Confluence integration. Performance enhancements will be added for the 0.3 release which will allow large user-databases to be integrated.

Crowd 0.3 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

Crowd 0.3

- Standalone version Tomcat 5.5 with HSQL .zip (65.3 Mbs)
 Standalone version Tomcat 5.5 with HSQL .tar.gz (64.7 Mbs)

Points of Interest

• The focus of this distribution is on performance for a large number of users and groups when integrating JIRA, Confluence and Bamboo integration.

Crowd 0.3.2 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



▲ Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released a new version of Crowd - 0.3.2.

This release addresses a Seraph SSO issue when integrating JIRA, Confluence and Bamboo.

http://jira.atlassian.com/secure/IssueNavigator.jspa?reset=true&pid=11291&fixfor=12540

You can now download Crowd from http://www.atlassian.com/Crowd

Cheers,

Crowd 0.3.3 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released a new version of Crowd - 0.3.3.

This release addresses the following:

- Upgrade from Webwork 1 to Webwork 2
- Workaround for Active Directory to support CN forwards.

CRITICAL POSTGRES UPGRADE NOTES: http://jira.atlassian.com/browse/CWD-71

We started testing on IE7 and have noticed the CSS bugs and will work to get this addressed for the next build.

http://jira.atlassian.com/secure/IssueNavigator.jspa?reset=true&pid=11291&fixfor=12544

You can now download Crowd from http://www.atlassian.com/Crowd

Cheers,

Crowd 0.4 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released a new version of Crowd - 0.4.

This release addresses several critical issues:

- · Seraph Logout code fails to logout the user in Confluence, Bamboo and JIRA.
- Unable to search for a Principal by email address.
- · Accept header authentication factor unreliable with Mozilla based browsers.
- Default 'localhost' configuration not added valid IP address of 127.0.0.1.

New features include:

- · Allow all to authenticate.
- New LDAP connectors build off Spring LDAP Template with better performance enhancements.
- Support for LDAP filters

All Postgres DB will need to have the following command ran:

alter table "APPLICATIONDIRECTORIES" add column "ALLOWALLTOAUTHENTICATE" boolean;

http://jira.atlassian.com/secure/IssueNavigator.jspa?reset=true&pid=11291&fixfor=12266

You can now download Crowd from http://www.atlassian.com/Crowd

Cheers,

Crowd 0.4.1 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



⚠ Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released a new version of Crowd - 0.4.1.

This addresses bugs which can be viewed through our JIRA issue tracker:

http://jira.atlassian.com/secure/IssueNavigator.jspa?reset=true&pid=11291&fixfor=12600

You can now download Crowd from http://www.atlassian.com/Crowd

Cheers,

Crowd 0.4.2 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



⚠ Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released a new version of Crowd - 0.4.2.

This addresses bugs which can be viewed through our JIRA issue tracker:

http://jira.atlassian.com/secure/IssueNavigator.jspa?reset=true&pid=11291&fixfor=12623

You can now download Crowd from http://www.atlassian.com/Crowd

Cheers,

Crowd 0.4.3 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.

A

Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released a new version of Crowd - 0.4.3.

This addresses bugs which can be viewed through our JIRA issue tracker:

http://jira.atlassian.com/secure/IssueNavigator.jspa?reset=true&pid=11291&fixfor=12267

- Support for AD when there are more than 999 records in a search result.
- Reduced the number of necessary libs for a client application.
- Improved the 'build properties' file configuration.

You can now download Crowd from http://www.atlassian.com/Crowd

Cheers,

Crowd 0.4.4 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released a new version of Crowd - 0.4.4.

This addresses bugs which can be viewed through our JIRA issue tracker:

http://jira.atlassian.com/secure/IssueNavigator.jspa?reset=true&pid=11291&fixfor=12642

- Caching improvement for Confluence.
- Removed an additional attribute that was causing integration problems with SOAP services when using Active Directory.

You can now download Crowd from http://www.atlassian.com/Crowd

Cheers,

Crowd 0.4.5 Beta Release Notes

This page last changed on Mar 11, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released a new version of Crowd - 0.4.5.

This addresses bugs which can be viewed through our JIRA issue tracker:

http://jira.atlassian.com/secure/IssueNavigator.jspa?reset=true&pid=11291&fixfor=12652

- Improved Active Directory LDAP attribute filtering.
- UI improvements with new screen layouts.
- Spring TX management.

You can now download Crowd from http://www.atlassian.com/Crowd

Cheers,

Crowd 1.0.0 Release Notes

This page last changed on Mar 12, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released Crowd 1.0.

This addresses bugs which can be viewed through our JIRA issue tracker:

- UI improvements with new screen layouts.
- Import and Export process for XML.
- LDAP Fixes for OpenLDAP and Microsoft Active Directory.
- · Improved error reporting.
- Apache / Subversion support.

You can now download Crowd from http://www.atlassian.com/Crowd. If upgrading from a previous version, please follow the Upgrade Guide.

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

Atlassian JIRA (10 issues)						
Key	Summary	Pr	S	tatus		
CWD-173	Implement an import and export function in Crowd	Ŷ	å ∕	Closed		
<u>CWD-188</u>	License update (when invalid) page should detail current license details.	Û	&	Closed		
CWD-184	Make Crowd's internal exception extend NestableException from commons-lang	Û	& ∕	Closed		
<u>CWD-180</u>	Schema violation with LDAP and Groups/Roles	Û	∛	Closed		
<u>CWD-178</u>	LDAP flags are incorrect for Active Directory/LDAP (Win2k3 domain)	Û	∛	Closed		
CWD-150	Build fails	Û	& /	Closed		
CWD-101	Unable to upgrade from 0.2 to 0.3.3	û	∛	Closed		
<u>CWD-97</u>	Apache mod Crowd integration	û	∛	Closed		
<u>CWD-90</u>	sso support for fisheye	Û	&	Closed		
<u>CWD-62</u>	<u>500 page.</u>	Û	ૄ	Closed		

Cheers,

Crowd 1.0.1 Release Notes

This page last changed on Mar 12, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released Crowd 1.0.1.

This addresses 3 critical bugs which can be viewed through our JIRA issue tracker:

- Create new group/role broken using OpenLDAP.
- XFireFault exception: "No write method for property".
- Single sign on Seraph authentication fails when the host on a domain is not the same.

You can now download Crowd from http://www.atlassian.com/Crowd

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

Atlassian JIRA (3 issues)							
Key	Summary	Pr	Status				
CWD-190	XFireFault exception: "No write method for property".	•	∛	Closed			
<u>CWD-189</u>	Create new group/role broken using OpenLDAP	•	∛	Closed			
<u>CWD-82</u>	Single sign on Seraph authentication fails when the host on a domain is not the same.	û	*	Closed			

Cheers,

Crowd 1.0.2 Release Notes

This page last changed on Mar 22, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released Crowd 1.0.2.

This addresses bugs and feature improvements which can be viewed through our JIRA issue tracker:

- · Included missing libraries for build archive.
- Added logging for input and output operations on SOAP services.
- Improved Jira caching for Crowd data.
- Added support for SSO beyond centralised authentication for Jive Forums.

You can now download Crowd from http://www.atlassian.com/Crowd

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

Atlassian JIRA (6 issues)							
Key	Summary	Pr	Status				
CWD-199	Missing libraries from the Crowd distribution	•	₹	Closed			
<u>CWD-198</u>	I renamed the docs from "Documentation" to "Crowd Documentation" (sorry). Can you please fix the "Help link?	û ·	∛	Closed			
CWD-197	XFire service input and output logging.	ŵ	₹	Closed			
<u>CWD-196</u>	Improve the ability to configure the internal cache's used by the Crowd client and the Crowd console	Û	₩	Closed			
<u>CWD-195</u>	Implement SSO for Jive Forums	Û	&	Closed			
<u>CWD-193</u>	Download archive is missing wsdl4j-1.5.2.jar	û	ď	Closed			

Cheers,

Crowd 1.0.3 Release Notes

This page last changed on Apr 02, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released Crowd 1.0.3.

This build is a mix of new features, bugs fixes and feature improvements:

- Improved SSO integration with Seraph for JIRA, Confluence and Bamboo.
- First builds of Apache Directory Server connector.
- Now supports directory server version that do not have the paged Idap control.
- · Documentation updates.

You can now download Crowd from http://www.atlassian.com/Crowd

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

	Atlassian JIRA (9 issues)					
Key	Summary	Pr	9	Status		
CWD-163	Administration Console allows login of unauthorized users	Ŷ	å ∕	Closed		
CWD-218	When an application is searching for its members from an LDAP repo AND an Internal Directory a HibernateException is thrown around trying to persist elements in a RemoteGroup.members	•	∛	Closed		
<u>CWD-216</u>	Crowd session token should be unique for each user, directory, machine	Û	& ∕	Closed		
CWD-214	Login should logout any previous logged in users before a new login	Û	&	Closed		
CWD-179	Paged results control option for LDAP connectors.	Û	∛	Closed		
CWD-177	<u>Fisheye connector logs</u> unnecessary exception.	Û	∛	Closed		
CWD-175	Computers show up in the Principal list within Crowd from MSAD	Û	&	Closed		
CWD-169	NullPointerException on add OpenLDAP directory	Û	∛	Closed		
CWD-121	Setting a "Remember Me" flag in Confluence, JIRA or Bamboo does not work, since the Token Reaper 'reaps' all session when the timeout is reached		*	Closed		

Cheers,

Crowd 1.0.4 Release Notes

This page last changed on Apr 11, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released Crowd 1.0.4.

This build focused on bug fixes:

- Import export process was failing with Oracle DB.
- Implemented updating known attribute types on an LDAP object...
- Importing JIRA users is fixed for MySQL on a Unix like filesystem.

You can now download Crowd from http://www.atlassian.com/Crowd

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

Atlassian JIRA (6 issues)				
Key	Summary	Pr		Status
<u>CWD-221</u>	Add documentation (marketing) section for Apache Directory Server	•	& ∕	Closed
CWD-220	Implement RemoteDirectory updatePrincipal(RemotePr method for LDAP servers using InetOrgPerson as the Principal object.	incipal)	\$	Resolved
CWD-225	Import and export of Crowd fails when the database is Oracle	Û	*	Closed
CWD-213	The Sitemesh and Webwork cleanup filters are being wrapped around the XFire requests.	û !	*	Resolved
CWD-206	JIRA User Import Doesn't Set Groups on Principals	û	♣ >	Resolved
<u>CWD-172</u>	Remove this error: SEVERE: No Store configured, persistence disabled	û	\$	Resolved

Cheers,

Crowd 1.0.5 Release Notes

This page last changed on Apr 19, 2007 by rosie@atlassian.com.



Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes

The Crowd development team has released Crowd 1.0.5.

If you are running Confluence version 2.4.4 or before, you will need to upgrade the confluence/WEB-INF/ lib/atlassian-user-XXXX-XX-XX.jar Atlassian User library to version 2007-04-05. The original library file will need to be backed up, removed, and then replaced with the new version listed above.

This build is mix of bug fixes, documentation improvements, and feature enhancements:

You can now download Crowd from http://www.atlassian.com/Crowd

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

Atlassian JIRA (15 issues)				
Key	Summary	Pr	9	Status
CWD-252	Active Directory filter does not exclude accounts which are no sAMAccountName type.	•	∛	Closed
<u>CWD-244</u>	Set compile flags with maven build scripts to be vs. 1.4	•		Resolved
<u>CWD-259</u>	Username is not displaye in Confluence (2.4.X) when first logging in.	<u>d</u> ☆	∛	Closed
<u>CWD-258</u>	Domain for multihost single sign-on is not setting the cookie correctly.	Û	∛	Closed
CWD-257	VerifyTokenFilter missing from the Demo application.	Û	∛	Closed
<u>CWD-256</u>	Importer success screens display success even on an exception.	i û	*	Resolved
CWD-254	review Installation documentation	û	♣	Resolved
<u>CWD-248</u>	CLONE -The Sitemesh an Webwork cleanup filters are being wrapped arounthe XFire requests.	_	∛	Closed
<u>CWD-243</u>	Document how you can not delete the Crowd console.	û	♣	Resolved
<u>CWD-242</u>	You can delete the integrated Crowd application	û	♣	Resolved
<u>CWD-235</u>	System error when no directory is selected when adding a group		*	Resolved
<u>CWD-234</u>	Add Websphere installation notes for Crowd.	Û	*	Resolved
<u>CWD-229</u>	<u>Transactions wrapping</u> <u>transactions. The</u>	Û	•	Resolved

	transaction manager is not aware about the wrapping transaction.		
<u>CWD-222</u>	Crowd is not handling from latin1 characters correctly	♣	Resolved
<u>CWD-226</u>	browser window title should say 'View Application'	₩	Resolved

Crowd 1.0.6 Release Notes

This page last changed on Apr 16, 2007 by justen.stepka@atlassian.com.

The Crowd development team has released Crowd 1.0.6.

This build is a quick fix for problems reported with the SSO integration for multi host environments:

You can now download Crowd from http://www.atlassian.com/Crowd

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

Atlassian JIRA (3 issues)					
Key	Summary	Pr	9	Status	
CWD-265	Confluence displays the users fullname instead of email when integrated with Crowd	Û	&	Resolved	
<u>CWD-263</u>	Fails with exception on Search	Û	\$	Resolved	
CWD-262	Improve the management of the Crowd domain during setup and in the Console.	Û	&	Resolved	

Cheers,

Crowd 1.0.7 Release Notes

This page last changed on May 09, 2007 by justin.

The Crowd development team has released Crowd 1.0.7.

This release is a highly recommended upgrade from Crowd 1.0.6 and fixes 2 major issues found in 1.0.6:

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

Atlassian JIRA (5 issues)					
Key	Summary	Pr	S	Status	
CWD-296	LDAP update password implementation.	•	*	Resolved	
<u>CWD-316</u>	Active Directory principals can signin with a blank password	Ŷ	\$	Resolved	
<u>CWD-181</u>	<u>Continually asked to reauth with Apache</u>	Ŷ	♣	Resolved	
CWD-287	Reset password option for the Console	Û	♣	Resolved	
CWD-233	javadoc SecurityServer	û	&	Resolved	

Cheers,

Crowd 1.1.0 Release Notes

This page last changed on Jun 22, 2007 by justen.stepka@atlassian.com.

The Atlassian Crowd team is proud to announce the release of Crowd 1.1.

This release contains a whole host of new features targeted at implementing OpenID, along with core updates to the Crowd Administration Console.

OpenID-enable your organisation with CrowdID

<u>OpenID</u> enables you to use a centralised identity to login to any website that supports OpenID. It opens up the possibilities of massive scale cross-domain SSO.

Think about all the accounts you have online: blogs, wikis, to-do lists, photo galleries. The list is endless. Even simple tasks such as leaving comments on someone else's blog may require you to register an account with that particular blogging system. This leaves you, as an end user, to set up and manage numerous accounts on each of these sites. With OpenID, rather than managing all these disparate accounts individually, users can manage their identity in one place via an authentication server.

With the ever-increasing adoption of this open authentication framework, including names such as Microsoft, AOL, Sun, Verisign and Firefox, expect to see many applications enabled for OpenID authentication.

CrowdID offers OpenID to an organisation's user base, allowing users to manage their online identity. Everything from configuring different profiles, managing trusted sites to reviewing authentication activity, is accessible from CrowdID. Administrators can set up whitelists/blacklists so that only trusted hosts can request authentication and can set up secure communication via SSL. All of the users can be managed via Crowd's security server, utilizing LDAP services from products such as Microsoft Active Directory.

Included with CrowdID is a sample OpenID client application, providing a working example of an OpenID enabled application. This will help developers kick start OpenID-enabling their applications.

Using OpenID

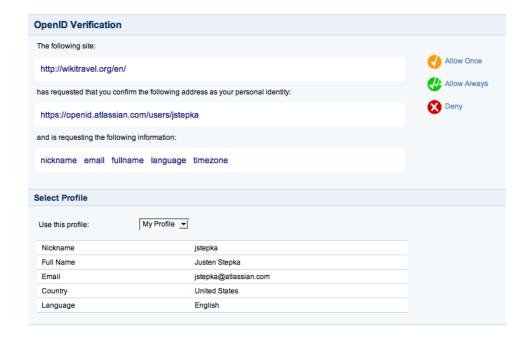
Rather than registering and typing in your username and password on each site that you visit, OpenID allows you to type a URL similar to 'openid.mycompany.com/users/jstepka':



The OpenID website that you are logging in to will redirect you to CrowdID, which will ask you if you would like to allow authentication with the requesting site.

You can even choose to 'Always' allow authentication with particular OpenID sites, which allows pass-through authentication if you are already logged into your CrowdID server. If you do this, then when you visit the site later, simply provide your URL (e.g. 'openid.mycompany.com/users/jstepka') and you are in.

Think of it as 'Remember Me' for the whole internet!



'Blacklist' and 'Whitelist'

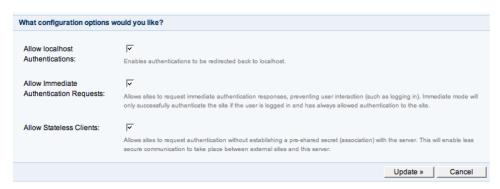
'Blacklists' and 'whitelists' allow administrators to lock down CrowdID their server so that, if necessary, it can only communicate with trusted hosts with which you have established relationships.

A blacklist will prevent specific hosts from communicating with the OpenID server. A whitelist will allow only specific hosts to communicate with the OpenID server.



OpenID Advanced Options

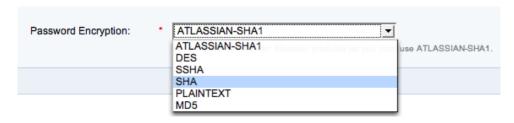
Some external sites implement security better than others. With CrowdID, you can pick how tough you want to be on OpenID sites that communicate with your Crowd OpenID server.



Crowd Console and Server Updates

Choose Your Encryption Type

Every administrator has their own password policies. When using a Crowd Internal Directory you can now select the level of encryption you need.



Import Your JIRA and Confluence Passwords

Migration can be a pain. To ease your switch from existing Atlassian products, Crowd can now import your existing passwords!



Faster Web-Services

Crowd web-services now support GZip compression, improving the performance when downloading large amounts of data such as the all the members of a large group or when performing large search.

Improved Apache and Subversion Integration

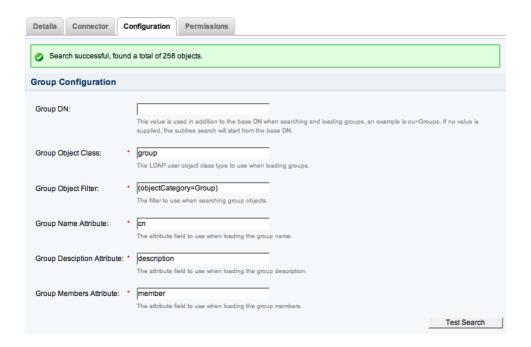
The Apache and Subversion library performance has been improved with the implementation of clientside caching of approved authentication requests.

Jive Forums 5.5 Support

The Jive Forums centralised authentication connector has been updated to support the new 5.5 major release of Jive Forums.

LDAP Configuration Tester

When setting up a Crowd LDAP connection you can now verify that your configuration connects as expected.



JIRA Issue Tracker

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

	Atlassian JIRA	(50 issues)		
Key	Summary	Pr	9	Status
CWD-376	Export fails when an application does not have a description.		♣	Resolved
CWD-359	'Blacklist' and 'Whitelist' options display intermittently in IE		\$	Resolved
CWD-271	Login and Logoff for OpenID Server application.		₩	Closed
<u>CWD-245</u>	Jive Forums 5.5 Support		4	Resolved
CWD-379	Change Password link on openid.atlassian.com throws 'No Action' error page		*	Resolved
CWD-377	Updating an Application will update the password for an application, even when you do not type in a new password		&	Closed
<u>CWD-360</u>	ORA-01000: maximum open cursors exceeded	•	\$	Resolved
<u>CWD-354</u>	suggestions for the OpenID login page	1	♣	Resolved
<u>CWD-351</u>	When logging out of Bamboo and anonymous mode is turned off, users still have the ability to create plans etc.	•	\$	Resolved
<u>CWD-343</u>	Atlassian-user integration of the display name	•	\$	Resolved

	attaile de forma attaile de la			
	attribute from attributes if there rather than building			
CMD 222	display name adhoc.	•		
CWD-332	Test configuration buttons when creating an LDAP directory connector.	¥	*	Resolved
<u>CWD-323</u>	Test connection utility for LDAP servers.	ŵ	\$	Resolved
CWD-320	Improve the importing of users from Confluence and JIRA so these users do not need to reset their passwords	Û	\$	Resolved
<u>CWD-319</u>	The export function of Crowd needs to have a flag to say don't export domain.	û	\$	Resolved
CWD-318	ApacheDS crowd integration does not currently support the adding of groups	Û	&	Resolved
CWD-313	The Apache module needs some kind of cache implemented similar to our other 'clients', to help improve performance around apache integration		\$	Resolved
CWD-305	Add optional GZIP compression support for XFire SOAP services and client.	û	\$	Resolved
<u>CWD-304</u>	Auto configure openid server as part of the setup process.	û	\$	Resolved
<u>CWD-302</u>	Skin the OpenID Server	û	& /	Closed
CWD-301	<u>OpenID Client - Dummy</u> <u>Mode</u>	Û	\$	Resolved
CWD-300	OpenID Server - dummy mode	û	.	Resolved
CWD-299	OpenID Client - Check Immediate	û .	•	Resolved
<u>CWD-298</u>	<u>OpenID Server - Check</u> <u>Immediate</u>	Û	♣	Resolved
CWD-294	Test OpenIDClient Form Redirection	û	\$	Resolved
<u>CWD-292</u>	OpenID Server Implementation	û	♣	Resolved
<u>CWD-291</u>	Auto configure openid server as part of the setup process.	Û	*	Closed
CWD-290	Upgrade webwork from 2.2.4 to 2.2.5	ŵ	\$	Resolved
CWD-288	<u>Change application titles -</u> not footers	Û	&	Resolved
<u>CWD-286</u>	Skin Demo RP application	û	\$	Resolved
<u>CWD-285</u>	Display attributes in the demo application upon login (store in session for display)	Û	\$	Resolved
CWD-284	Login and Logoff for OpenID demo relying party application.	û	*	Resolved

CWD-283	Configure request attributes for demo app	Û	ф	Resolved
CWD-280	Document OpenID server configuration	Û	∛	Closed
CWD-279	Attribute/Profile Management	Û	♣	Resolved
<u>CWD-278</u>	Authentication redirect from relying party.	Û	*	Resolved
<u>CWD-277</u>	Skin Server	Û	♣	Resolved
<u>CWD-276</u>	Profile authentication history	Û	♣	Resolved
CWD-275	Enable/disable localhost relying parties.	Û	\$	Resolved
CWD-274	Whitelist and Blacklist Editor	Û	\$	Resolved
<u>CWD-273</u>	Force Association	Û	♣	Resolved
CWD-272	Reset password option.	û	*	Resolved
CWD-269	document the management of the Crowd domain during setup and in the Console	Ŷ	ф	Resolved
CWD-246	Update documentation with new information about installing connector for 5.5.X version of JIVE.	•	ф	Resolved
CWD-232	add 'SecurityServerClient'	û	*	Resolved
CWD-154	Apache DS connector	û	\$	Resolved
CWD-144	Add 'green' success message to 'update' actions on Console.	Û	\$	Resolved
<u>CWD-65</u>	Explore OpenID support	û	∛	Closed
CWD-368	Stray backslash on Groups administration screen	û	ф	Resolved
CWD-365	Typo in hint for Password Encryption during initial directory setup	û	ф	Resolved
CWD-325	Directory details tab shows empty pink error box	û	ф	Resolved

Crowd 1.1.1 Release Notes

This page last changed on Jul 26, 2007 by smaddox.

The Crowd development team has released Crowd 1.1.1.

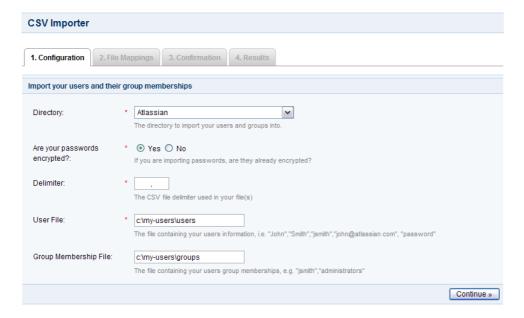
This release is a highly recommended upgrade from Crowd 1.1.0 since it provides a security fix to XWork, the technology underlying the web framework <u>WebWork</u> which is used by Crowd.

This release also contains a new CSV importer as well as fixes for some issues found in 1.1.0.

Importing Users and Groups from a CSV File

You can now copy users from an external directory or user base into Crowd via a CSV (comma-separated values) file.

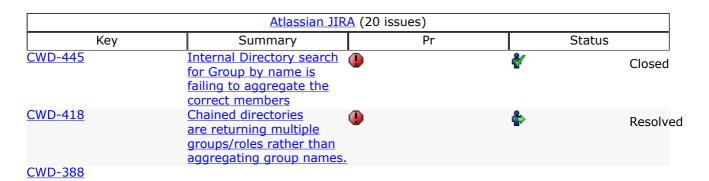
The new <u>CSV Importer</u> allows you to <u>specify</u> a file containing user information, and optionally another file containing the groups to which the users belong. You can then <u>map the CSV fields</u> to the Crowd directory fields. After performing the import, Crowd sums up the <u>results</u>. <u>Screenshot: 'CSV Importer - Configuration'</u>



Other Fixes in Crowd 1.1.1

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196



	Paging principal sessions links are incorrect and do not function.	Ŷ	&	Resolved
CWD-309	The SunOne LDAP connector is not correctly authenticating users	Ŷ	&	Resolved
<u>CWD-438</u>	Users shown twice in JIRA	1	∛	Closed
CWD-437	JIRA's logout via SSO does not clear it's session	Û	*	Resolved
CWD-435	Exception using Seraph single-sign-on in Bamboo	û .	*	Resolved
CWD-434	Searching for a group spanning multiple directories by its name will not amalgamate the principals	û	•	Resolved
CWD-425	Trim the application address when adding a valid application remote address.	Û	\$	Resolved
CWD-419	displayName attribute is not used with the JIRA connector	û	\$	Resolved
CWD-414	The CSV Importer needs to display user results for duplicate entries i.e. users that have been ignored since they already exist in Crowd.	i	\$	Resolved
CWD-400	JIRA attach screenshot does not write file to the filesystem when Crowdified.	Ŷ	ф	Resolved
CWD-397	<u>Document the CSV</u> <u>importer</u>	ŵ	*	Resolved
<u>CWD-385</u>	Generated tokens have non-HTML escaped characters.	Û	&	Resolved
CWD-382	Create custom add successful page does not display directort connector page.	Û	\$	Resolved
CWD-352	Configure the number of paged results for an LDAP connector	_	•	Resolved
CWD-290	Upgrade webwork from 2.2.4 to 2.2.5	û	*	Resolved
<u>CWD-53</u>	CSV importer	Û	*	Resolved
CWD-428	Change wording on the Atlassian importer	•	*	Resolved
<u>CWD-407</u>	Textual changes to new CSV-importer screens	û	\$	Resolved

Crowd 1.1.2 Release Notes

This page last changed on Sep 03, 2007 by justen.stepka@atlassian.com.

The Crowd development team has released Crowd 1.1.2.

Crowd 1.1.2 is a recommended upgrade from Crowd 1.1.1 since it provides improved integration with JIRA and Confluence, and tidier functionality for multiple directories.

For cross product compatibility, you must upgrade to the following versions of each product:

- · Crowd 1.1.2 or later
- · Bamboo 1.2.2 or later
- · Confluence 2.5.6 or later
- JIRA 3.7.4 or later

Integration with JIRA user management

With Crowd 1.1.2, you can now turn external user management off in JIRA. This means that you can allow signup via JIRA, and you can manage your users within JIRA. Changes will flow through to Crowd.

JIRA has an <u>automatic group membership</u> feature. This means that any new user added through JIRA will automatically be a member of all groups which have the JIRA Users permission. In this way, you can ensure that a new user is automatically added to several groups when they sign up with JIRA.

RSS feeds

Crowd 1.1.2 fixes the problem experienced accessing RSS feeds from JIRA including retrieving JIRA issues via Confluence macros (e.g. the JIRA portlet macro).

Improved LDAP Performance

Crowd 1.1.2 now queries LDAP repositories in a more efficient manner that will give a dramatic performance increase for those with large numbers of LDAP groups.

Other Fixes in Crowd 1.1.1

Errors were reported by the JIRA trusted connection.

• Unrecognized application: confluence:4557196

Atlassian JIRA (23 issues)				
Key	Summary	Pr	9	Status
CWD-314	Not able to Retrieve Issues (RSS) if JIRA is Integrated with Crowd	•	•	Resolved
<u>CWD-297</u>	JIRA performance improvements	•	♣	Resolved
CWD-472	OpenID not working with LiveJournal	Ŷ	♣	Resolved
<u>CWD-540</u>	<u>CrowdID Install</u> <u>Documentation Mistake</u>	Û	♣	Resolved
CWD-503	Cannot modify user profile when using Crowd authentication, fails with NullPointer on RemotePrincipal.getEmail()	û)	\$	Resolved
<u>CWD-497</u>		û	*	Resolved
CWD-496				

	requiresPasswordChange gets reset to false during login for an InternalDirectory	Û	\$	Resolved
<u>CWD-495</u>	Principals are being added with whitepace in their usernames	Û	ф	Resolved
CWD-492	Concurrent modification exception in JIRAAuthenticator logout code	Û	Ф	Resolved
<u>CWD-487</u>	The upgrade manager should run after setup is complete	Û	\$	Resolved
CWD-484	When Confluence 2.6 releases we need to move the code from the bamboo-intergration module back into the atlassian-user module.	Û	ф	Resolved
CWD-478	<u>Update Confluence</u> Integration Doc	Û	♣	Resolved
CWD-462	Implement add user method of OSUser for JIRA	û	ф	Resolved
<u>CWD-452</u>	JIRA user management should allow admins to update Crowd users	Û	\$	Resolved
CWD-448	Remote application's calls to removePrincipal(name) only removes the first principal it finds	Û	ф	Resolved
<u>CWD-447</u>	Remote application's calls to removeRole(name) only removes the first role it finds		ф	Resolved
<u>CWD-446</u>	Remote application's calls to removeGroup(name) only removes the first group it finds	Û	ф	Resolved
<u>CWD-421</u>	Client JARs in client/lib are incomplete	Û	♣	Resolved
<u>CWD-394</u>	Full Name Search always returns all users	û	₩	Closed
<u>CWD-132</u>	Windows service registration feature.	û	*	Resolved
CWD-420	Configuring multiple repositories may result in duplicate users	4	•	Resolved
CWD-390	Browser cookies cause NullPointerException when integrated with Confluence	û	ф	Resolved
<u>CWD-383</u>	misspelling in wsdl - encryptedCrednetial	û	\$	Resolved

Crowd 1.2 Release Notes

This page last changed on Feb 26, 2008 by smaddox.

The Atlassian Crowd team is delighted to present Crowd 1.2.

Crowd 1.2 is a major release that focuses on enhanced integration, security and usability. Crowd's directory permissions now allow finer-grained control, so that you can define the permissions per application. The Group and Role Browsers now display group/role membership. We have enhanced group management in the existing Jive Forums and Apache/Subversion connectors. Our NTLM plugin offers SSO (single sign-on) for JIRA and Confluence via NTLM desktop authentication. A new connector lets you integrate your Acegi security solution with Crowd. And you can import your Bamboo users directly into a Crowd directory.

We'd like to say a special thank you to <u>CustomWare</u> for their assistance with deployment and testing of the NTLM plugin.

△ Stop Press — 27 February 2008: We got a little bit ahead of ourselves with our announcement of full NTLM support in Crowd 1.2. The NTLM plugins for JIRA and for Confluence are provided and supported by a third party, not by Atlassian.

Highlights of this release:

- Directory Permissions per Application
- Group and Role Membership Browser
- Improved Browser for OpenID Login History
- NTLM Support
- Improved Integration with Jive Forums
- Acegi Application Connector
- Group-Based Authorisation Added for Subversion
- New Importer for Bamboo Users
- Plus Over 70 Improvements and Bug-Fixes

Responding to your feedback:





Your <u>votes and issues</u> help us keep improving our products, and are much appreciated.



Upgrading to Crowd 1.2

You can download Crowd from the <u>Atlassian website</u>. If upgrading from a previous version, please read the <u>Upgrade Notes</u>.

Highlights of Crowd 1.2



Directory Permissions per Application

- Directory permissions determine whether groups, principals and roles can be added, modified or deleted.
- Before this release, permissions were set at directory level only. Permissions therefore applied across all applications associated with the directory.
- With Crowd 1.2, directory permissions can be set for each application. For example, you could enable the 'Add Principal' permission on the 'Employees' directory for JIRA but disable the permission for Confluence.

• See the screenshot below, and take a look at an <u>example</u>.





Group and Role Membership Browser

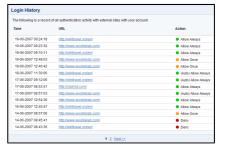
- A new 'Principals' tab in the Group Browser shows all principals belonging to a group.
- You can view membership in the Role Browser too.
- Read the documentation.





Improved Browser for OpenID Login History

- Instead of showing all login history on a single page, the Login History screen now divides the history into pages, for easier viewing.
- To move between pages, click 'Next', 'Prev' or a specific page number.
- In the 'Action' column, a new item '(Auto)
 Allow Always' tells you which logins were
 allowed automatically because of a previous
 'Allow Always' instruction.

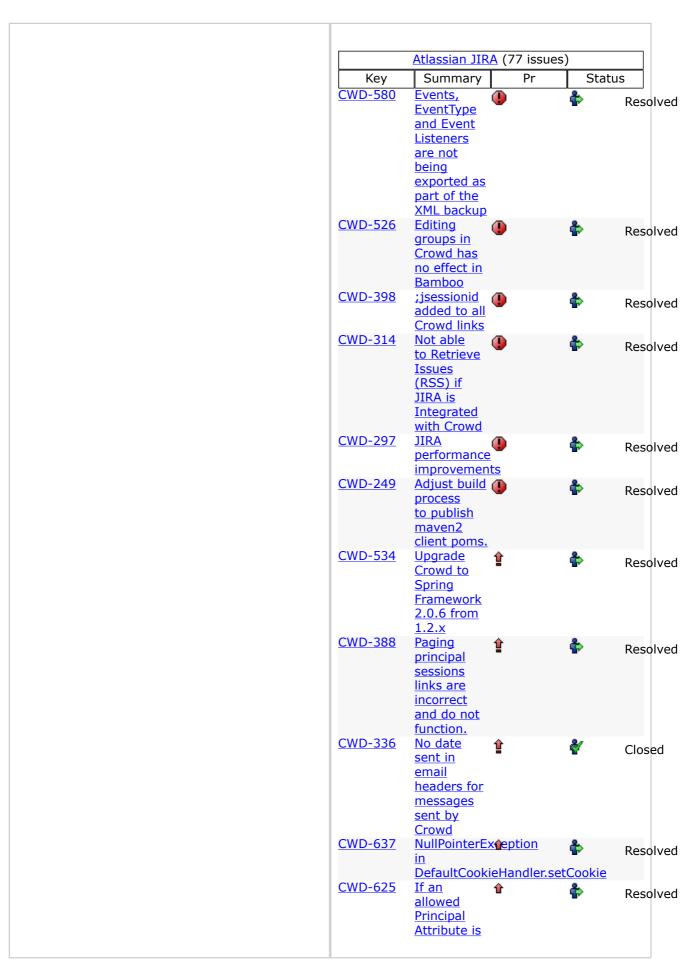


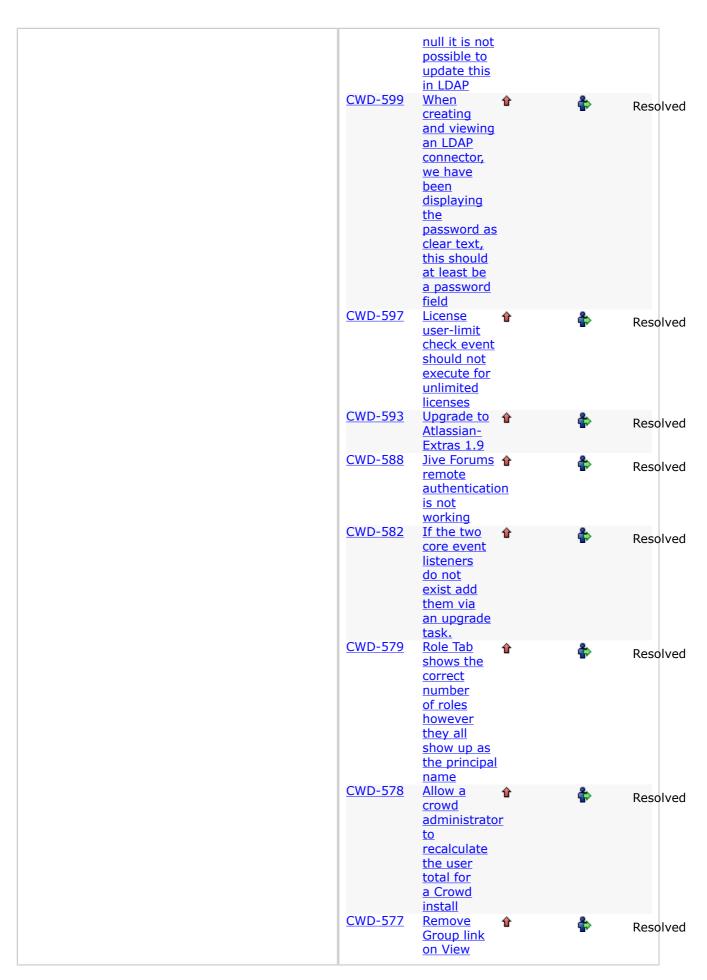


NTLM Support

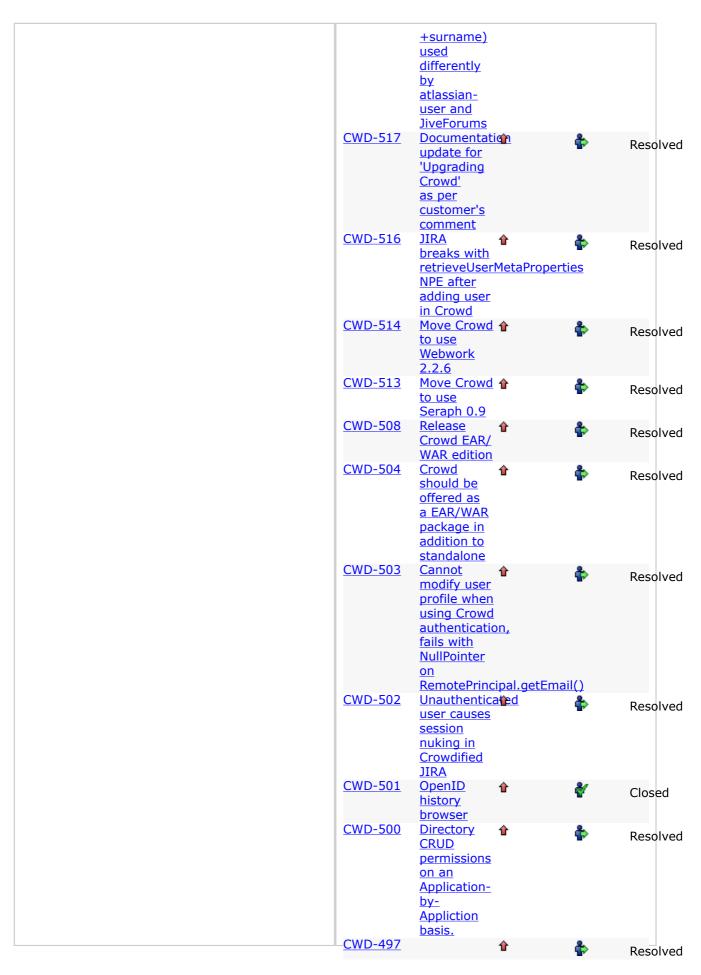
 NTLM is a Microsoft authentication protocol that allows you to access a website using your desktop login. The protocol utilises an integration between Microsoft Internet Explorer and Active Directory. When using

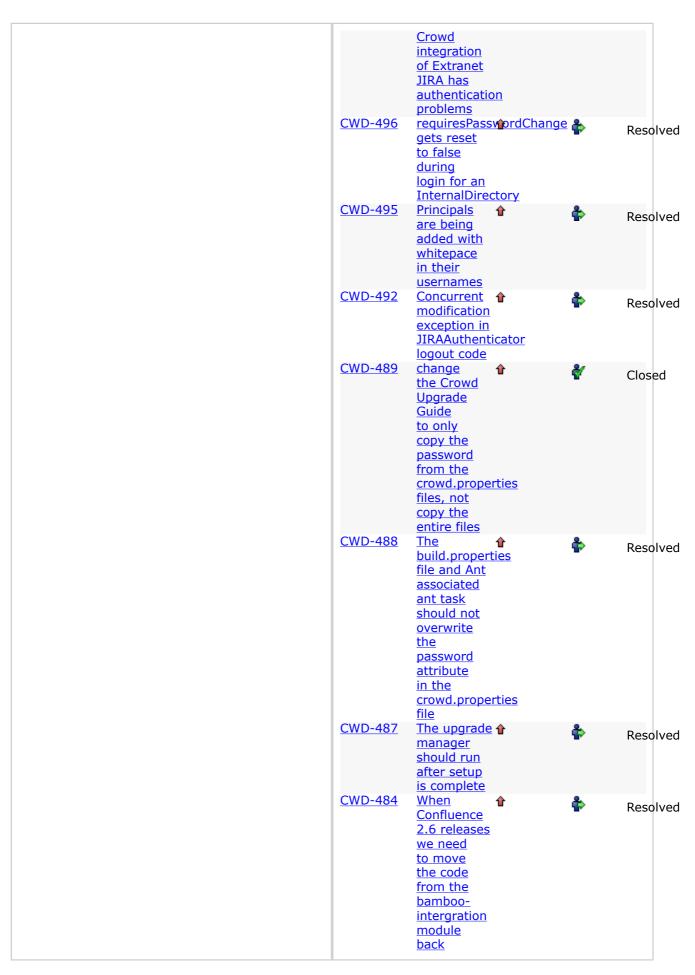
	 this feature, users will only need to log in to their desktop to access NTLM-integrated applications. JIRA and Confluence NTLM connectors are now supported with Crowd 1.2. Read the instructions on setting up Confluence and JIRA NTLM support in Crowd.
5	 Improved Integration with Jive Forums Crowd 1.2 provides support for group management in Jive Forums. Groups and group memberships are now pulled from Crowd. You can use the Jive Forums admin console to define application permissions associated with groups. This allows Crowd to manage Jive Forums groups and memberships and Jive Forums to handle the permissions associated with the groups. Read the documentation.
6	 Acegi Application Connector Crowd 1.2 provides a built-in application connector for Acegi, a security solution with a particular emphasis on Spring Java/JEE applications. Read the documentation.
7	Group-Based Authorisation Added for Subversion Crowd allows you to password-protect your SVN repository running under Apache. You can now also configure fine-grained access by group as well as by user. Read more about the Crowd Subversion connector.
8	New Importer for Bamboo Users • Our new Bamboo importer allows you to copy your Bamboo users into a Crowd directory. • Read the documentation.
9	Plus Over 70 Improvements and Bug-Fixes

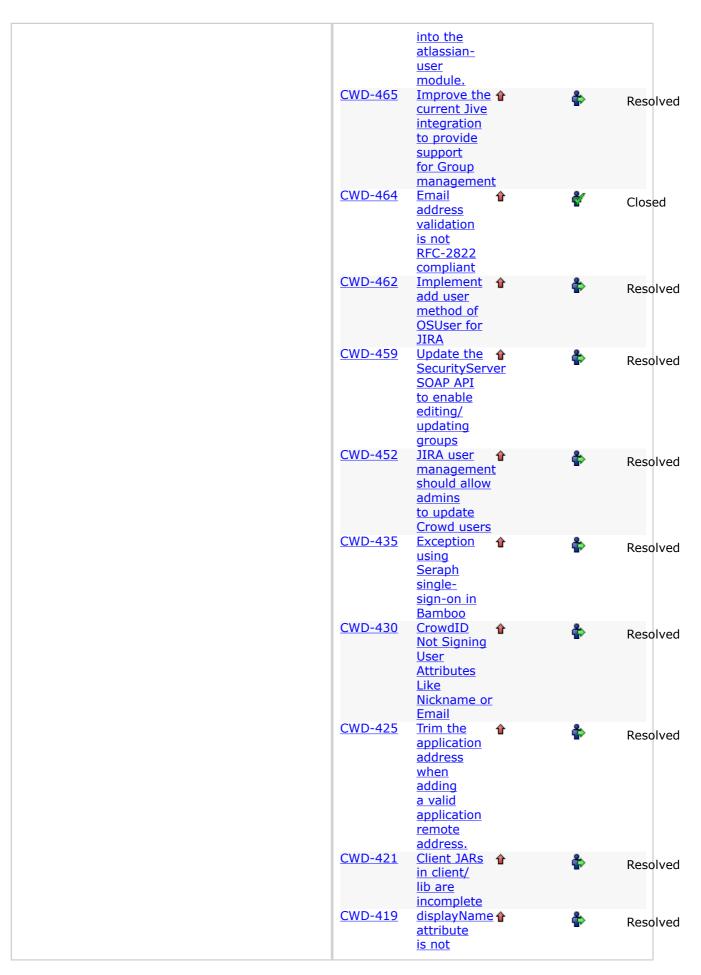


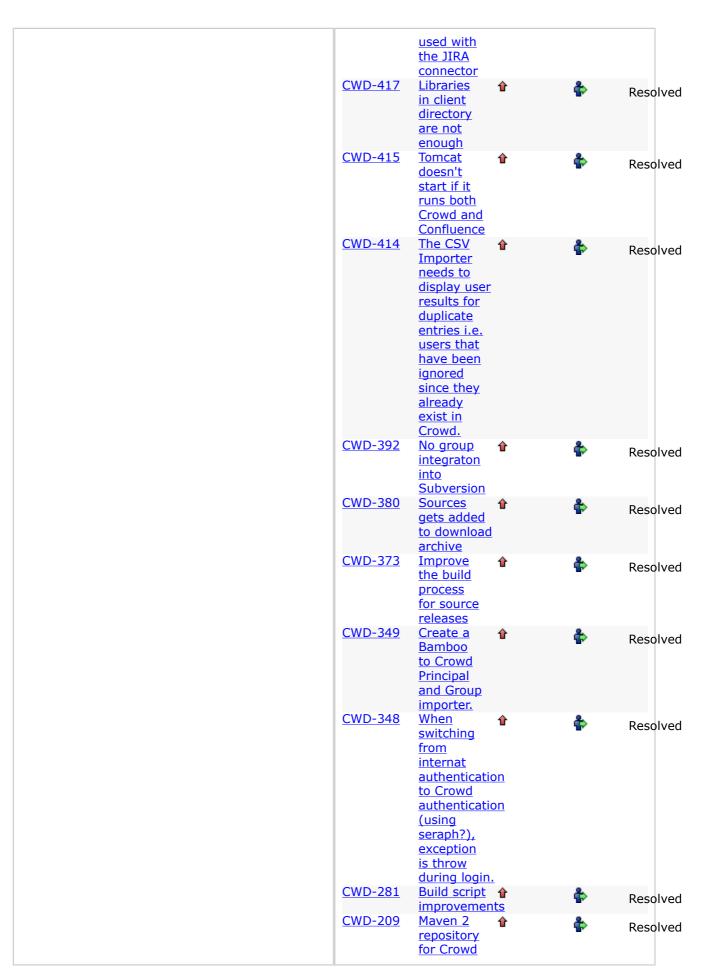


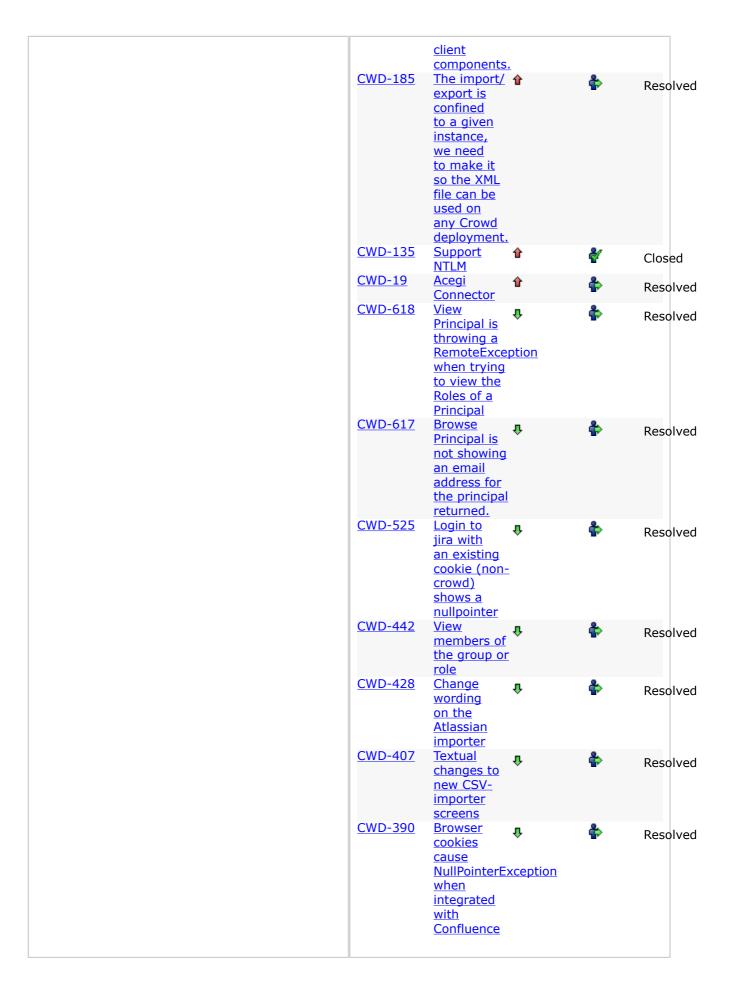
	Principal does not			
	contain a valid directory ID			
<u>CWD-576</u>	Document Crowd installation	Û	\$	Resolved
CWD-575	on JBoss Document the 'config test' tab	ŵ	\$	Resolved
CWD-573	Multiple cookies are wrote back to the browser during an authenticati	û on.	\$	Resolved
CWD-567	HSQL context path storage issues when not using start_crowd sh	û 1	\$	Resolved
CWD-556	Atlassian applications hang and can not start when integrated with Crowd under the same VM.	û	\$	Resolved
CWD-552	Data imports fail when no application- group associations are in place		\$	Resolved
CWD-540	CrowdID Install Documentat Mistake	Û	♣	Resolved
CWD-539	Need and EAR/WAR download to use other application servers	Û	•	Resolved
CWD-537	Method to create a token for a principal without performing an authenticati	û On	&	Resolved
CWD-524	Full Name attribute (displayNam firstName	Û	&	Closed











Crowd 1.2.1 Release Notes

This page last changed on Dec 09, 2007 by smaddox.

10 December 2007: The Crowd development team has released Crowd 1.2.1.

Crowd 1.2.1 fixes some installation problems. Other improvements include the sorting of groups by directory name then group name in the Application Browser.

Fixes in Crowd 1.2.1

	<u>Atlassian JIRA</u> ((15 issues)	
Key	Summary	Pr	Status
<u>CWD-648</u>	Xalan is missing from the demo applications WEB-INF/lib folder.	•	Resolved
CWD-644	Seraph library compatibility issues result in java.lang.NoSuchMethodErro com.atlassian.crowd.integrat lang/String;	-	Resolved getAuthType()Ljava/
CWD-642	build.xml fails to correctly copy the openid crowd.properties file	♣	Resolved
<u>CWD-638</u>	build.bat no longer properly runs, preventing the environmental changes such as database dialects from be changed automaticly	*	Resolved
<u>CWD-653</u>	ports in the crowd.properties files are incorrect for the demo and openidserver applications with the distribution	*	Resolved
CWD-651	Confluence importer error of with MySQL	\$	Resolved
CWD-657	Acegi jar is missing from the client directory of the distribution	♣	Resolved
<u>CWD-650</u>	Update the crowd distribution module parent POM version to version 10	*	Resolved
<u>CWD-649</u>	Update the atlassian- crowd module parent POM version to version 7	*	Closed
CWD-629	Error found in Internal Directory when a user requires a password change	\$	Resolved
<u>CWD-584</u>	Adding a Principal to Sun DSEE 6.2 throws a NullPointerException	*	Resolved
<u>CWD-506</u>	LDAP fitlering only supports one fitler.	•	Resolved
CWD-499	Creating Groups and Principals fails on 2000	\$	Resolved
CWD-342	Sort groups alphabetically or provide a pop-up window to search and	•	Resolved



Crowd 1.2.2 Release Notes

This page last changed on Jan 15, 2008 by smaddox.

16 January 2008: The Crowd development team has released Crowd 1.2.2.

Crowd 1.2.2 upgrades its packaged version of Apache Tomcat to version 5.5.25, to fix some reported <u>Apache Tomcat vulnerabilities</u>. Tomcat is supplied as the application server in the Crowd Standalone distribution.

This release also solves some problems with the Crowd build and resolves the incompatibility between Crowd single sign-on and the new JIRA/Confluence <u>trusted application</u> feature.

Complete List of Fixes in Crowd 1.2.2

Atlassian JIRA (13 issues)				
Key	Summary	Pr	Status	
CWD-738	Allow configuring of request logs in the Crowd client libraries.	\$	Resolved	
<u>CWD-710</u>	Update Tomcat to 5.5.25 to fix reported vulns	∛	Closed	
<u>CWD-654</u>	Xalan is missing from the demo applications WEB-INF/lib folder.	*	Closed	
<u>CWD-703</u>	Crowd OpenID WAR file is missing commons-logging jar.	\$	Resolved	
CWD-793	Receiving error when trying to build Crowd 1.2.2: taskdef class com.oopsconsultancy.xmltask. cannot be found	ant.XmlTask	Resolved	
<u>CWD-739</u>	Concurrency Issue in client libraries may result in multiple caches	\$	Resolved	
CWD-728	The Internal Directory is throwing a java.lang.IndexOutOfBoundsE Index: 0, Size: 0 on requiresPasswordChange()	xception:	Resolved	
<u>CWD-727</u>	Poor logging of a Token miss in the In-memory token cache.	\$	Resolved	
CWD-711	The HTTPAuthenticator isAuthenticated method should initially check for a token	ф-	Resolved	
<u>CWD-699</u>	Crowd SSO is incompatible with JIRA 3.12/Confluence 2.7 trusted application feature.	\$	Resolved	
CWD-667	Crowd user caching in JIRA delayed	\$	Resolved	
CWD-665	Create an XFire fault ogging handler	♣	Resolved	
<u>CWD-706</u>	Fix logging on startup for the OpenID Server. Stop the logging of Hibernate INFO.	\$	Resolved	

Crowd 1.3 Beta Release Notes

This page last changed on Feb 19, 2008 by smaddox.

20 February 2008

Crowd 1.3 will be launched early in March 2008. A beta release is currently undergoing internal testing. These release notes apply to Crowd 1.3 beta. We'll publish the final release notes with the release of Crowd 1.3.0.

If you would like to participate in testing the beta release, please contact Crowd Support.

Upgrading to Crowd 1.3 Beta

If upgrading from a previous version, please read the <u>Upgrade Notes</u>.

What's Coming in Crowd 1.3

with Crowd Groups and Roles

LDAP Authentication

- Crowd 1.3 provides a new directory type, <u>Delegated Authentication</u>, combining the features of a Crowd internal directory with delegated LDAP authentication.
- This allows you to have your users authenticated via an external LDAP directory while managing the groups and roles in Crowd.
- Use Crowd's flexible and simple group management when the LDAP groups do not suit your requirements. For example, you can set up a group configuration in Crowd for use with Confluence and other Atlassian products.
- Avoid the performance issues which might result from downloading large numbers of groups from LDAP.
- Use the new Directory Importer, described <u>below</u>, to synchronise your LDAP users with your Crowd directory.
- When a user logs in for the first time, Crowd automatically adds them to the Crowd directory if not already present.

Importer

Cross-Directory User

- Our new Directory Importer allows you to copy your users from one directory into another.
- Provided that the directory is defined in Crowd, you can copy from and to any directory type.
- For example, you might import users, groups, roles and memberships from an LDAP directory to a new Delegated Authentication directory (described above) so that you can manage the users, groups and roles in Crowd while allowing users to log in with their LDAP passwords.
- Read about the Directory Importer.

Interface

Streamlined User

- The <u>Crowd Administration Console</u> has a new menu structure and an enhanced look-and-feel. sed functions, so that an administrator has fewer steps to perform and interaction is more intuitive.
- The 'Help' links on the Administration Console point directly to the relevant documentation pages.

and Setup

Simplified Installation

- Database configuration is now part of the <u>Setup Wizard</u>, which will update the configuration files based on the options you select.
- You can choose between a JNDI datasource (i.e. server-managed) or a simpler JDBC configuration.
- When <u>upgrading</u>, you can import an XML backup of your Crowd database or connect to an existing database via the <u>Setup Wizard</u>. This means that you don't have to go through the whole Setup Wizard, nor do a manual backup and restore of your Crowd database files.

Configuration via Console

· Enable profiling and configure your logging levels via the Crowd Administration Console.

and Efficiency

Improved Performance

- You'll notice faster search results on the Administration Console screens, such as the Application Browser and User Browser, etc.
- That annoying 'POSTDATA has expired' message no longer appears when you click the 'Back' button.
- Search results returned to a Crowd application are now sorted alphabetically such as the list of groups shown in a Confluence group picker.
- We've fixed the <u>Hibernate StaleStateException error</u> that was causing occasional performance degradation and authentication failures.
- You can choose to store the login session tokens in the Crowd database (as done prior to Crowd 1.3) or in memory (new option as from Crowd 1.3). Depending upon your installation, in-memory storage could greatly improve response times during authentication. Read about <u>configuring token</u> <u>storage</u>.
- Gzip compression of Crowd Security Server output is now optional. You can turn it on or off via the Crowd Administration Console. Some reasons why you may want to turn Gzip compression off:
 - It may be easier to debug problems using uncompressed data.
 - Some agents, such as older versions of Internet Explorer, have problems with the Gzip format.

Developers

Highlights for the

- The Java client library API has been upgraded. Read more about the <u>API changes</u> and the <u>upgrade</u> notes.
- You can pass the crowd.properties file to a client application as an environment variable.

Updates and Fixes in this Release

	Atlassian JIR	A (67 issues)		
Key	Summary	Pr	9	Status
CWD-738	Allow configuring of request logs in the Crowd client libraries.	•	•	Resolved
<u>CWD-654</u>	Xalan is missing from the demo applications WEB-INF/lib folder.	•	∛	Closed
<u>CWD-768</u>	Hibernate DAOs for Principals and Groups close the Hibernate Session when adding	Ŷ	&	Resolved
<u>CWD-703</u>	Crowd OpenID WAR file is missing commons-logging jar.		♣	Resolved
CWD-639	Crowd hanging client applications, error with token manager	Ŷ	♣	Resolved
<u>CWD-466</u>	Storing login tokens in an external DB is inefficient	1	♣	Resolved
CWD-350	Tuckey rewrite filter dials home by doing a DNS lookup.	Ŷ	\$	Resolved
<u>CWD-882</u>	<u>Unalble to update</u> the 'active' flag of an Application	Û	\$	Resolved
<u>CWD-838</u>	Updating any directory type in Crowd has	û	*	Resolved

	multiple validation			
	problems.			
<u>CWD-830</u>	Change Crowd WAR deployment to zip archive	û <u></u>	\$	Resolved
CWD-829	When updating a Delegated or Connector based directory, required fields are not marked as required.	û	•	Resolved
<u>CWD-828</u>	When updating an Internal Directory, there is no validation performed on the Configuration tab	û !	*	Resolved
CWD-824	Session timeout during the installation should be larger than 5 minutes	Û	\$	Resolved
<u>CWD-823</u>	JDBC connection should default to MySQL	Û	*	Resolved
CWD-822	crowd-init.properties value not set error message during startup is not useful	û	\$	Resolved
<u>CWD-817</u>	Default results per page to 100	Û	*	Resolved
CWD-806	Fix log4j.properties so dates are displayed in log files.	Û	*	Resolved
<u>CWD-805</u>	Crowd's Add Directory Screen indicates we support Open Directory.	Û	♣	Resolved
CWD-800	When associating a Group/Role to a Principal in the Demo application, an error is displayed	Û	\$	Resolved
CWD-790	Have you seen the client/ lib directory lately? The current count is about 46 JAR files!	û	*	Resolved
CWD-775	Add Logging & Profiling functionality into Crowd Admin screen.	Û	\$	Resolved
<u>CWD-767</u>	Crowd's Client libraries should be slimmed down to a single JAR file containing all required classes for a Crowd Client	•	*	Resolved
<u>CWD-765</u>	File missing in 1.2.2 release	Û	♣	Resolved
<u>CWD-758</u>	Hibernate StaleStateExceptions in Crowd	Û	\$	Resolved
CWD-757	Crowd with delegated LDAP auth - update documentation for Bamboo-Crowd integration	û	*	Resolved
CWD-739	Concurrency Issue in client libraries may result in multiple caches	Û	\$	Resolved
CWD-731	OGNL Exception being thrown when updating a principal	Û	\$	Resolved
<u>CWD-728</u>	The Internal Directory is throwing a	Û	\$	Resolved

	java.lang.IndexOutOfBoundsException:		
	Index: 0, Size: 0 on requiresPasswordChange()		
CWD-727	Poor logging of a Token miss in the In-memory token cache.	\$	Resolved
<u>CWD-726</u>	java.lang.IllegalStateExcepton: Can't overwrite cause exception seen in Crowd	\$	Resolved
CWD-724	Configuration classs for the LDAP importer	\$	Resolved
<u>CWD-723</u>	LDAP Importer, to migrate data from one directory into another.	*	Resolved
CWD-720	Enable import from XML in the setup process	∛	Closed
<u>CWD-716</u>	Error when attempting to remove a group	♣	Resolved
CWD-711	The HTTPAuthenticator isAuthenticated method should initially check for a token	&	Resolved
CWD-700	The isMember call for groups can be slow for very large groups in an Internal Directory	&	Closed
CWD-699	Crowd SSO is incompatible with JIRA 3.12/Confluence 2.7 trusted application feature.	\$	Resolved
CWD-694	ehcache-1.2.3.jar is missing from client/lib folder.	\$	Resolved
CWD-688	Help links directly in the administration console	∛	Closed
<u>CWD-686</u>	Sort groups, users and roles before returning results to the security server client	\$	Resolved
CWD-685	Write System Info page to atlassian-crowd.log on Crowd startup	\$ -	Resolved
<u>CWD-675</u>	remove "cache-control: no-store" on search results pages	•	Resolved
CWD-669	Adding group/role with prefixed space causes Hibernate error	\$	Resolved
<u>CWD-666</u>	Persistence system should to use c3p0 so hibernate's default pooling system is not used.	\$	Resolved
CWD-650	Update the crowd distribution module parent POM version to version 10	\$	Resolved
CWD-649	Update the atlassian- crowd module parent POM version to version 7	*	Closed
CWD-646	Move FishEye connector outside crowd-core ↑	*	Resolved
<u>CWD-645</u>	<u>Use Spring dependency</u> <u>injection for</u> <u>SecurityServerClient</u>	\$	Resolved

	and HttpAuthenticator in			
	Crowd applications			
CWD-633	Allow the crowd.properties file to be passed to a Client application as an environment variable	Û	\$	Resolved
CWD-622	Make SecurityServerClien not static	<u>t</u> û	∛	Closed
<u>CWD-586</u>	start_crowd.sh and build.sh fail on Solaris	•	\$	Resolved
<u>CWD-584</u>	Adding a Principal to Sun DSEE 6.2 throws a NullPointerException	Û	&	Resolved
CWD-499	Creating Groups and Principals fails on 2000	Û	\$	Resolved
<u>CWD-481</u>	Support CRYPT encryption in OpenLDAP connector	<u>1</u> û	\$	Resolved
CWD-427	OpenLDAP Connector should default to SSHA encryption.	Û	♣	Resolved
<u>CWD-389</u>	GZip compression is optional through the administration console.	Û	*	Resolved
CWD-208	Mixed authentication and authorization support for external directory connectors.	Û	\$	Resolved
CWD-149	Config Test doesn't appea to obey Directory and Group rules	<u>rû</u>	&	Resolved
CWD-855	OGNL exceptions are thrown when remoing Groups and Roles in the Demo app	û	\$	Resolved
CWD-849	Rationalise the path to crowd-init.properties that's displayed on startup	‡	\$	Resolved
CWD-818	Admin Console: Selected tab CSS needs tweaking for Windows compatability	↑	♣	Resolved
<u>CWD-799</u>	When creating a Group/ Role to a Principal in the Demo application, an exception is thrown.	ψ.	\$	Resolved
<u>CWD-798</u>	When adding a Group or Role via the Demo app, the description field is not being persisted.		\$	Resolved
<u>CWD-706</u>	Fix logging on startup for the OpenID Server. Stop the logging of Hibernate INFO.	₽	\$	Resolved
CWD-570	First Name not being displayed from Apache DS	Ŷ	*	Resolved
CWD-453	Crowd core jar breaks in Grails, need a new slimmed-down client jar	ф	\$	Resolved
CWD-847	Error message is confusing when no directories are mapped to an application	◆	\$	Resolved

Crowd 1.3 Release Notes

This page last changed on Mar 03, 2008 by smaddox.

4 March 2008

The Atlassian Crowd team is delighted to present Crowd 1.3. This release includes innovative solutions for LDAP group administration, cross-directory user imports and a streamlined management interface.

A new directory type allows you to combine the features of a Crowd directory with authentication delegated to an LDAP directory. This means that you can use Crowd's flexible group management when the LDAP groups do not suit your requirements. For example, set up a simple group configuration for use with <u>Confluence</u>, <u>JIRA</u> and other <u>Atlassian</u> products.

Our new Directory Importer allows you to copy your users from one directory into another - from and to any type of directory. For example, you can copy users, groups and roles from an LDAP directory to a Crowd directory, or vice versa.

The Crowd Administration Console has a new menu structure with an enhanced look and feel. It's easier to find the functions that you perform most often and interaction is more intuitive.

Installing and setting up Crowd is simpler and faster. Database configuration is now part of the Setup Wizard. When upgrading, you have the option to import your data from an XML backup or point Crowd at your existing database, and so bypass most of the Setup Wizard.

To speed up troubleshooting, you can configure your logging levels and enable performance profiling via the Administration Console. There's a bucketful of improvements in performance and efficiency, and many other fixes and enhancements.

Highlights of this release:

- LDAP Authentication with Crowd Groups and Roles
- Cross-Directory User Importer
- · Streamlined User Interface
- Simplified Installation, Setup and Integration
- Configuration of Logging and Profiling via Console
- Improved Performance and Efficiency
- · Highlights for the Developers
- Plus Over 60 Improvements and Bug-Fixes

Responding to your feedback:



36 votes satisfied

Your <u>votes and issues</u> help us keep improving our products. Keep 'em coming!



Upgrading to Crowd 1.3

You can download Crowd from the <u>Atlassian website</u>. If upgrading from a previous version, please read the <u>Crowd 1.3 Upgrade Notes</u>.

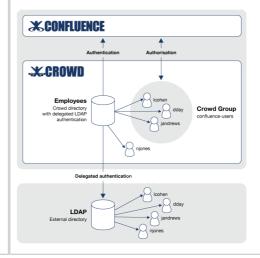
Highlights of Crowd 1.3



LDAP Authentication with Crowd Groups and Roles

 Crowd 1.3 provides a new directory type, <u>Delegated Authentication</u>, combining the features of a Crowd internal directory with delegated LDAP authentication.

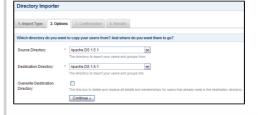
- This allows you to have your users authenticated via an external LDAP directory while managing the groups and roles in Crowd.
- Use Crowd's flexible and simple group management when the LDAP groups do not suit your requirements. For example, you can set up a group configuration in Crowd for use with <u>Confluence</u>, <u>JIRA</u> and other <u>Atlassian</u> products.
- Avoid the performance issues which might result from downloading large numbers of groups from LDAP.
- Use the new Directory Importer, described below, to synchronise your LDAP users with your Crowd directory.
- When a user logs in for the first time, Crowd automatically adds them to the Crowd directory if not already present.



2

Cross-Directory User Importer

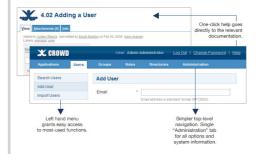
- Our new Directory Importer allows you to copy your users from one directory into another.
- Provided that the directory is defined in Crowd, you can copy from and to any directory type.
- For example, you might import users, groups, roles and memberships from an LDAP directory to a new Delegated Authentication directory (described <u>above</u>) so that you can manage the users, groups and roles in Crowd while allowing users to log in with their LDAP passwords.
- · Read about the **Directory Importer**.





Streamlined User Interface

- The <u>Crowd Administration Console</u> has a new menu structure and an enhanced look and feel.
- A left-hand menu grants easy access to the functions you use most often, such as searching for a user or group.
- A single 'Administration' tab holds the configuration options, system information and backup/restore functions.
- In the interests of simplicity, we've changed the term 'principal' to 'user' throughout.
- When you click a 'Help' link, the relevant documentation page opens immediately.





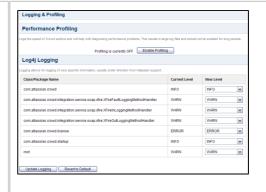
Simplified Installation, Setup and Integration

- Database configuration is now part of the <u>Setup Wizard</u>, which will update the configuration files based on the options you select.
- You can choose between a JNDI datasource (i.e. server-managed) or a simpler JDBC configuration.
- When <u>upgrading</u>, you can import an XML backup of your Crowd database or connect to an existing database via the <u>Setup Wizard</u>. This means that you don't have to go through the whole Setup Wizard, nor do a manual backup and restore of your Crowd database files.
- When integrating an application with Crowd, you'll notice that there's just one single JAR file to copy.



Configuration of Logging and Profiling via Console

- · Enable and disable performance profiling.
- Configure your logging levels via the Crowd Administration Console, for quick and simple runtime troubleshooting.
- Edit the log configuration file for more advanced settings.
- · Read the documentation.





Improved Performance and Efficiency

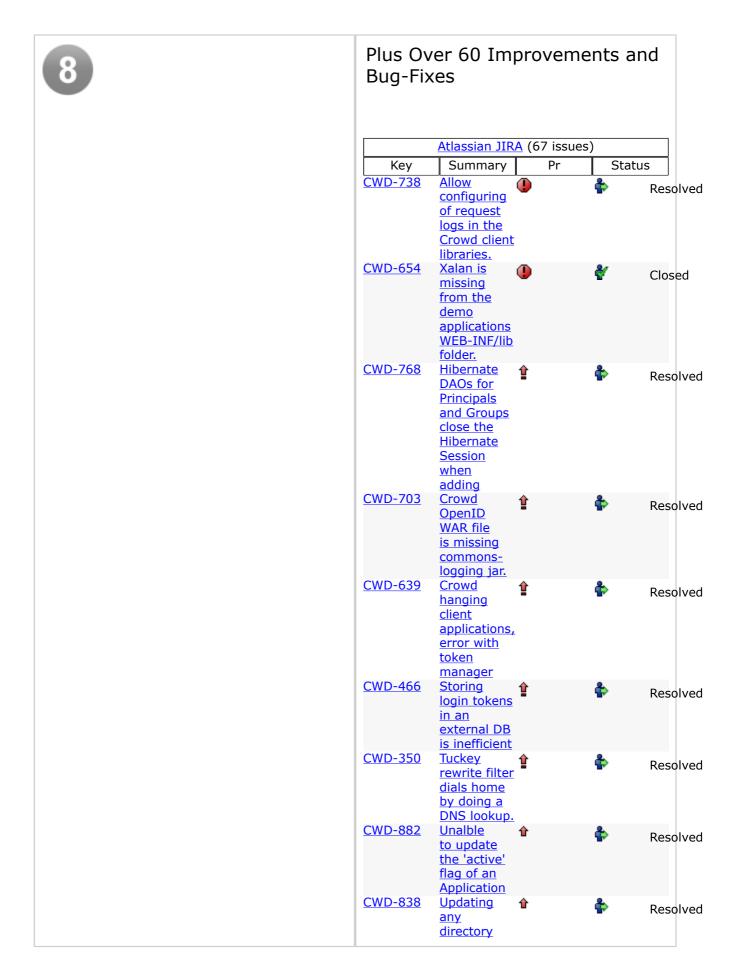
- You'll notice faster search results on the Administration Console screens, such as the Application Browser and User Browser.
- That annoying 'POSTDATA has expired' message no longer appears when you click the 'Back' button.
- Search results returned to a Crowd application are now sorted alphabetically

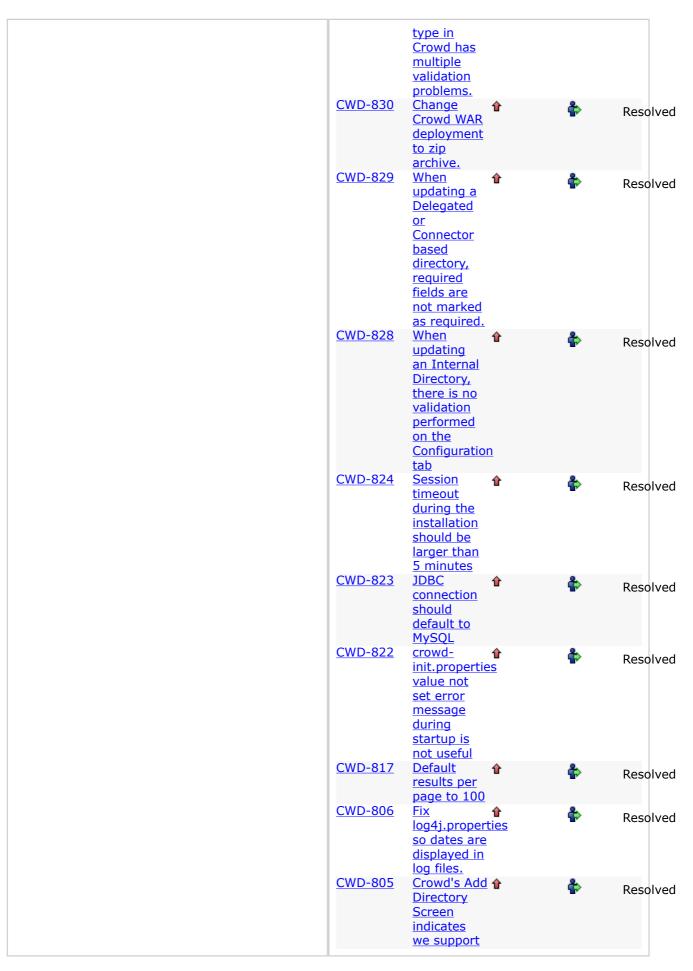
 such as the list of groups shown in a Confluence group picker.
- We've fixed the <u>Hibernate</u>
 <u>StaleStateException error</u> that was causing
 occasional performance degradation and
 authentication failures.
- You can choose to store the login session tokens in the Crowd database (as done prior to Crowd 1.3) or in memory (new option as from Crowd 1.3). Depending upon your installation, in-memory storage could greatly improve response times during authentication. Read about configuring token storage.
- <u>Gzip</u> compression of Crowd Security Server output is now optional. You can turn it on or off via the <u>Crowd Administration Console</u>. Some reasons why you may want to turn Gzip compression off:
 - It may be easier to debug problems using uncompressed data.
 - Some agents, such as older versions of Internet Explorer, have problems with the Gzip format.

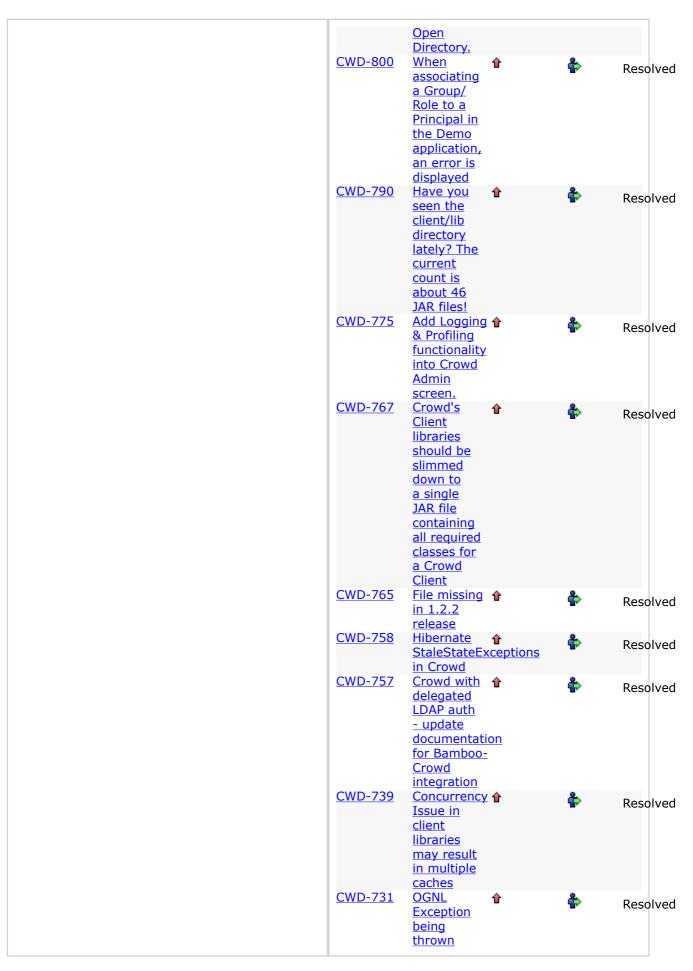


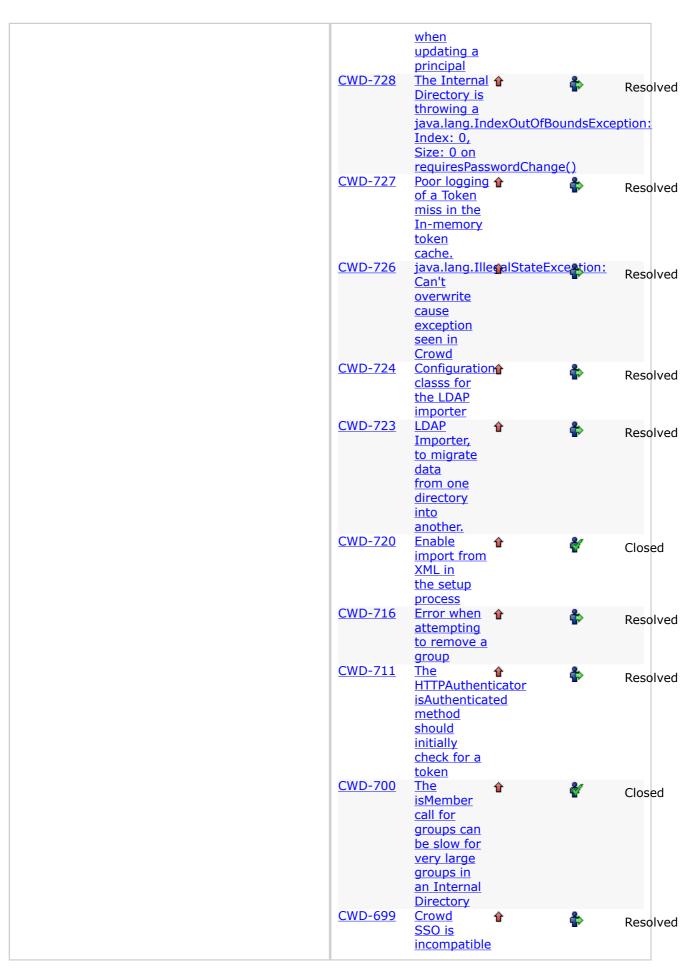
Highlights for the Developers

- The Java client library API has been upgraded. Read more about the <u>API changes</u> and the <u>upgrade notes</u>.
- You can pass the crowd.properties file to a client application as an environment variable.





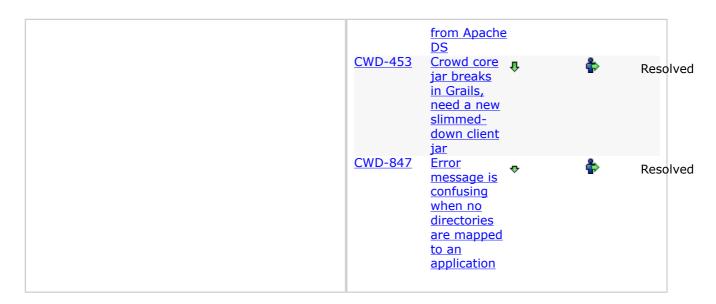




		with JIRA			
		3.12/			
		Confluence 2.7 trusted			
		<u>application</u>			
		feature.			
	CWD-694	ehcache-1.2	. a .jar	♣ >	Resolved
		is missing		•	Resolved
		from client/ lib folder.			
	CWD-688	Help links	û	& /	
	3.1.2 333	directly	-	***	Closed
		<u>in the</u>			
		administratio	<u>on</u>		
	CWD-686	console Sort groups,	•	2.	
	02	users and		₩.	Resolved
		roles before			
		returning			
		results to the security			
		server client			
	CWD-685	<u>Write</u>	û	*	Resolved
		System Info		_	
		<u>page to</u> <u>atlassian-</u>			
		crowd.log			
		on Crowd			
	CWD 67E	startup		•	
	CWD-675	<u>remove</u> <u>"cache-</u>	û	*	Resolved
		control:			
		no-store"			
		on search			
		<u>results</u> <u>pages</u>			
	CWD-669	Adding	û	&	Resolved
		group/		•	Resolved
		role with			
		<u>prefixed</u> <u>space</u>			
		<u>causes</u>			
		<u>Hibernate</u>			
	CWD-666	<u>error</u> <u>Persistence</u>	A	0.	
	<u>CWD-000</u>	<u>system</u>	u	₩	Resolved
		should use			
		c3p0 so			
		<u>hibernate's</u> <u>default</u>			
		<u>pooling</u>			
		system is			
		not used.			
	<u>CWD-650</u>	<u>Update</u>	Û	*	Resolved
		the crowd distribution			
		<u>module</u>			
		parent POM			
		version to			
	CWD-649	version 10 Update the	A	9.0	
	CWD-049	atlassian-	ď	~	Closed
		<u>crowd</u>			
		module			

	parent POM version to version 7		
<u>CWD-646</u>	Move FishEye connector outside crowd-core	♣	Resolved
CWD-645	Use Spring dependency injection for SecurityServerClient and HttpAuthenticator in Crowd applications	*	Resolved
CWD-633	Allow the crowd.properties file to be passed to a Client application as an environment variable	•	Resolved
CWD-622	Make SecurityServerClient not static	å∕	Closed
<u>CWD-586</u>	start crowd.sh and build.sh fail on Solaris	\$	Resolved
CWD-584	Adding a Principal to Sun DSEE 6.2 throws a NullPointerException	♣	Resolved
CWD-499	Creating Groups and Principals fails on 2000	♣	Resolved
CWD-481	Support CRYPT encryption in OpenLDAP connector	♣	Resolved
CWD-427	OpenLDAP Connector should default to SSHA encryption.	♣	Resolved
CWD-389	GZip compression is optional through the administration console.	•	Resolved
CWD-208	Mixed authentication and authorization	•	Resolved





Known Issues in This Release

We have an enthusiastic and dedicated group of testers and customers who jump in there, try out the new Crowd release, and report any problems so that we can fix them quickly. Here's a <u>list of known issues</u> which will be fixed in our next point release.

A big thank you to everyone who helps us ensure that Crowd keeps getting better and better.

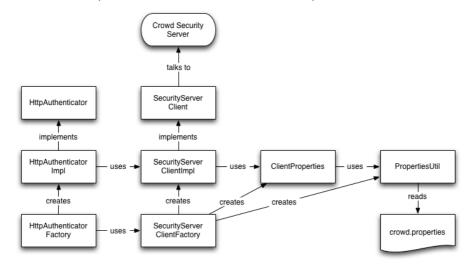
Client API Changes

This page last changed on Mar 03, 2008 by smaddox.

Crowd 1.3 brings a rework of the internals of the Crowd Client library — see $\underline{\text{CWD-622}}$. This page gives a summary of the API changes.

Description of the changes

- The static implementations of <u>HttpAuthenticator</u> and <u>SecurityServerClient</u> have been removed. They have been replaced with instantiable objects.
- The <u>GenericClient</u> has been removed and its functions have been absorbed into the new <u>SecurityServerClient</u> and the <u>ClientProperties</u> objects.
- The relationships in the new class structure are represented below:



Why go to non-static?

- Makes it easier to unit test your applications. Simply mock out the <u>SecurityServerClient</u> or <u>HttpAuthenticator</u> interfaces to test business logic without being tied to the collaborators.
- Allows you to have multiple 'applications' in one classloader.

But I liked my static calls!

- <u>SecurityServerClientFactory</u> and <u>HttpAuthenticatorFactory</u> are provided to allow for a fast migration to the new API. The logical functionality of the client and authenticator are unchanged.
- · So for example, instead of:

```
HttpAuthenticator.isAuthenticated(request);
```

you could use:

```
HttpAuthenticatorFactory.getHttpAuthenticator().isAuthenticated(request);
```

What are my options?

- 1. Use the supplied factory methods to manage singleton instances, OR
- 2. Externally manage singleton instances, e.g. via an IoC container like Spring.

Using the factories

The factories, HttpAuthenticatorFactory and SecurityServerClientFactory, provide quick access to implementations of the HttpAuthenticator and SecurityServerClient. They manage singleton instances of the beans. This means that if you do opt to use the factories, then you should never instantiate HttpAuthenticatorImpl or SecurityServerClientImpl directly.

The factories naturally assume that there is one application client per classloader, i.e. one SecurityServerClient and one HttpAuthenticator.

Using an IoC container

Managing the singleton implementations externally may be a convenient approach for applications that use an IoC container. For example, Spring could be used to manage the instances of SecurityServerClientImpl and HttpAuthenticatorImpl. In Crowd, internally, we use this approach.

If you would like to use the standard Spring configuration, which loads the client properties from crowd.properties, simply add the applicationContext-CrowdClient.xml from the classpath to your Spring configuration:

```
<context-param>
  <param-name>contextConfigLocation</param-name>
  <param-value>
     classpath:/applicationContext-CrowdClient.xml
  </param-value>
  </context-param>
```

This file is located in the crowd-integration-client.jar.

If you would like to customise your own configuration, modify the bean configuration to suit your needs:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN" "http://www.springframework.org/dtd/spring-
beans.dtd">
<beans>
    <bean id="propertyUtils" class="com.atlassian.crowd.util.PropertyUtils"/>
    <bean id="clientProperties"</pre>
class="com.atlassian.crowd.integration.service.soap.client.ClientProperties">
        <constructor-arg ref="propertyUtils"/>
    <bean id="securityServerClient"</pre>
class="com.atlassian.crowd.integration.service.soap.client.SecurityServerClientImpl">
        <constructor-arg ref="clientProperties"/>
    </bean>
    <bean id="httpAuthenticator"</pre>
 class="com.atlassian.crowd.integration.http.HttpAuthenticatorImpl">
        <constructor-arg ref="securityServerClient"/>
    </bean>
    <bean id="verifyTokenFilter" class="com.atlassian.crowd.integration.http.VerifyTokenFilter">
        <constructor-arg ref="httpAuthenticator"/>
    </bean>
    <bean id="crowdAuthenticationInterceptor"</pre>
 class="com.atlassian.crowd.integration.xwork.CrowdAuthenticationInterceptor">
        <constructor-arg ref="httpAuthenticator"/>
```

```
</bean>
</beans>
```

Make sure that you do not use the factories (either directly or implicitly) when externally managing singletons.

If you would like to use the <code>VerifyTokenFilter</code>, you can use Spring to autowire the servlet filter by defining it in your <code>web.xml</code>:

```
<filter-name>verifyTokenFilter</filter-name>
  <filter-class>org.springframework.web.filter.DelegatingFilterProxy</filter-class>
</filter>
<filter-mapping>
  <filter-name>verifyTokenFilter</filter-name>
  <url-pattern>/secure/*</url-pattern>
</filter-mapping>
```

This will protect all resources matching the /secure/* pattern.

Known Issues in Crowd 1.3

This page last changed on Mar 02, 2008 by smaddox.

We have an enthusiastic and dedicated group of testers and customers who jump in there, try out the new Crowd release, and report any problems so that we can fix them quickly. Below is a list of known issues. We're working on them, and will have a point release out as soon as possible.

A big thank you to everyone who helps us ensure that Crowd keeps getting better and better.

While you're waiting, take a look at the great new features in Crowd 1.3.

You can also browse the <u>Crowd project in our issue tracker</u> to see what's fixed and what's not, for each release.

Issues to be Fixed in Crowd 1.3.1

Atlassian JIRA (8 issues)							
Key	Summary	Pr	Status				
CWD-717	When 1.2.1 was being released mvn release:perform didn't deploy the artifact	•	Progress	In			
CWD-887	We should have a flag on LDAP import, to specify if we want to import, groups, users and roles.	Û	4	Open			
CWD-876	LDAP Mixed case usernames are imported as lowercase usernames	û	å	Open			
CWD-870	CrowdCredentialsProvider exception handling improvements		å	Open			
CWD-781	Support case-insensitivity for the Internal Directory, this is in the aim of providing support for RFC-2798	Û	4	Open			
CWD-661	Unable to update users in Devnet JIRA	ŵ	*	Resolve			
CWD-217	Crowd throws obscure exception when attempting to add a principle to a non-existent group	Û	🎂 Progress	In			
CWD-183	LDAP/SOAP transport error with character '/'	Û	🎳 Progress	In			

Installing Crowd

This page last changed on Feb 14, 2008 by smaddox.

Installing Crowd

You can download Crowd here.



Warning: Some unzip programs cause errors

Some archive-extract programs cause errors when unzipping the Crowd archive file.

- · Linux or Unix users can use any unzip program.
- Solaris users must use GNU Tar instead of Solaris Tar.
- Windows users should use a third-party unzip program like 7Zip or Winzip. If you do not have one, please download and install one before continuing: 7Zip — Recommended. If in doubt, download the '32-bit .exe' version
 Winzip
- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd
- 5. Installing Crowd as a Windows Service

- Crowd Release Notes
- Installing Crowd
- Upgrading Crowd

1. System Requirements

This page last changed on Feb 10, 2008 by smaddox.

Hardware Requirements

The hardware required to run Crowd depends significantly on the number of applications and users that your installation will have, as well as the maximum number of concurrent requests that the system will experience during peak hours.

During evaluation Crowd will run well on any reasonably fast workstation computer (eg. 1.5+Ghz processor). Memory requirements depend on how many applications and users you will store, but 256MB is enough for most evaluation purposes.

Most users start by downloading Crowd, and running it on their local computer. It is easy to migrate Crowd to your enterprise infrastructure later.

We would appreciate if you let us know what hardware configuration works for you. Please create a support request in <u>JIRA</u> with your hardware specification and mention the number of applications and users in your Crowd installation.

Software Requirements

- 1. Sun JDK 1.4 (1.5 or higher is preferred). You can download the Java SE Development Kit (JDK) from the <u>Sun website</u>.
- 2. Note: Once the JDK is installed, you will need to set the JAVA_HOME environment variable, pointing to the root directory of the JDK. Some JDK installers set this automatically (check by typing 'echo %JAVA_HOME%' in a DOS prompt, or 'echo \$JAVA_HOME' in a shell). If it is not set, please see 1.1
 Setting JAVA_HOME.
- 3. J2EE 1.4 application server or a Servlet 2.3 web container. NOTE: Crowd ships with Apache Tomcat (5.5.x).
- 4. JDBC-compliant database that is supported by <u>Hibernate</u>. NOTE: Crowd ships with a built-in HSQL database, which is fine for evaulation purposes. For production environments we recommend configuring Crowd to use an <u>external database</u>.
- 5. If you are deploying a <u>WAR installation</u>, ensure that the JTA (Java Transaction API) jar is deployed in the shared lib folder on the application server. The JTA is available in a couple of places:
 - On the Sun website.
 - In the Crowd Standalone Distribution zip file, available on the <u>Crowd download centre</u> file jta-1.0.1B.jar in CROWD\apache-tomcat-5.5.20\common\lib.



The JTA specifies standard Java interfaces between a transaction manager and the parties involved in a distributed transaction system: the resource manager, the application server, and the transactional applications. Refer to the <u>Sun</u> documentation for more information.

Supported Databases

The following database servers are supported by Hibernate:

- HypersonicSQL
- PostgreSQL
- Microsoft SQL Server
- MySQL
- Oracle 10g (tested on 10.2.0.1)

Of these, the following databases have been tested and are supported by Atlassian:

- 2.1.1 HSQLDB
- 2.1.2 MS SQL Server
- 2.1.3 MySQL
- 2.1.4 Oracle
- 2.1.5 PostgreSQL

Supported J2EE Servers

The following J2EE servers are supported:

- JBoss (4.2.2 GA)
- Resin (3.0.x) tested on 3.0.23
- Tomcat (5.5.x) tested on 5.5.20

Next Step

2. Installing Crowd and CrowdID

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

1.1 Setting JAVA_HOME

This page last changed on Aug 27, 2007 by smaddox.

Once you have installed the JDK (see <u>1. System Requirements</u>), you need to set the JAVA_HOME environment variable.

To set the JAVA HOME environment variable on Windows

- 1. Right click on the 'My Computer' icon on your desktop and select 'Properties'.
- 2. Click the 'Advanced' tab.
- 3. Click the 'Environment Variables' button.
- 4. Click 'New'.
- 5. In the 'Variable name' field, enter 'JAVA_HOME'.
- 6. In the 'Variable value' field, enter the directory (including its full path) where you installed the JDK.
- 7. Restart the computer.

To set the JAVA_HOME environment variable on 'nix based systems

There are many ways you can do it on 'nix based systems (including Mac OS X). Here are two:

For your current user,

- 1. Open up a shell / terminal window
- vi ~/.profile (replace vi with your favourite text editor)
- 3. Add export JAVA_HOME=/path/to/java/home/dir on its own line at the end of the file
- 4. Add export PATH=\$JAVA_HOME/bin:\$PATH on its own line immediately after
- 5. Save, and restart your shell
- 6. Running java -version should give you the desired results

For all users in the system,

- 1. Open up a shell / terminal window
- 2. vi /etc/profile (replace vi with your favourite text editor)
- 3. Add export JAVA_HOME=/path/to/java/home/dir on its own line at the end of the file
- 4. Add export PATH=\$JAVA_HOME/bin:\$PATH on its own line immediately after
- 5. Save, and restart your shell
- 6. Running java -version should give you the desired results

If you are using a GUI, you may not need to open up the shell. Instead, you might be able to open the file directly in a graphical text editor.

- 1. System Requirements
 - 1.1 Setting JAVA_HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution

- Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
- The crowd.properties File
 4.2 Changing the Port that Crowd uses
 5. Installing Crowd as a Windows Service

 - 5.1 Specifying Startup Order of Windows Services
 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2. Installing Crowd and CrowdID

This page last changed on Feb 20, 2008 by smaddox.

The instructions below tell you how to install the standalone distribution of Crowd, which includes Apache Tomcat. If you wish to deploy a WAR distribution of Crowd or CrowdID on your own existing application server instead, read the instructions on the Crowd WAR distribution.

Crowd versions 1.1 and later include CrowdID. Installing Crowd, as described below, will also install CrowdID.



Hint: If you are evaluating Crowd or you are unsure which version to install, just follow the simple instructions on this page.

On this page:

- 1. Install Crowd (Standalone Distribution)
- 2. Optional Prepare your Database
- 3. Start Crowd and Complete the Setup Wizard

1. Install Crowd (Standalone Distribution)

- 1. Download Crowd.
- 2. Please check your unzip program before extracting the downloaded archive see the note on the Crowd installation front page.
- 3. Unzip the download archive into a directory of your choice. Note: Do not specify directory names that contain spaces.
 - We'll refer to this installation directory as {CROWD_INSTALL}.
- 4. Specify your Crowd Home directory by editing the configuration file at: {CROWD_INSTALL}\crowd-webapp\WEB-INF\classes\crowd-init.properties.

The Crowd Home directory is where Crowd will store its configuration information. If you are using the embedded HSQL database, supplied for evaluation purposes, Crowd will also store its database in this directory. To specify the directory:

- Open the crowd-init.properties file.
- Choose the appropriate line in the file, depending upon your operating system (see below).
- Remove the # at the beginning of the line.
- Enter the name of the directory you want Crowd to use as its Home directory. For example,
 - on Windows:

crowd.home=c:/data/crowd-home

Note: On Windows, make sure you use forward slashes as shown above, not backward slashes.

On Mac and Unix-based systems:

crowd.home=/var/crowd-home

• Save the crowd-init.properties file.

2. Optional Prepare your Database



Hint: If you are evaluating Crowd and are happy to use the database supplied, you can skip this step.

If you wish to set up Crowd and/or CrowdID with an external database, see:

- 2.1 Connecting Crowd to a Database
- 2.2 Connecting CrowdID to a Database

3. Start Crowd and Complete the Setup Wizard

- 1. Run the start-up script, found in your {CROWD_INSTALL} directory:
 - start_crowd.bat for Windows.
 - start_crowd.sh for Mac and Unix-based systems.
- 2. Point a web browser at http://localhost:8095/crowd where you will see the Crowd Setup Wizard. Follow the instructions in the Wizard. You can also read more information about the Setup Wizard.

- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd
- 5. Installing Crowd as a Windows Service

2.1 Connecting Crowd to a Database

This page last changed on Feb 20, 2008 by smaddox.

You can configure your database connection as part of the <u>Crowd Setup Wizard</u>. It will make things easier if you have created the database and deployed the database driver before you start.



HSQLDB database is supplied for evaluation purposes

The Standalone distribution of Crowd is shipped with an embedded <u>HSQLDB</u> database. You can choose this embedded database during the Crowd setup process. The embedded database is fine for evaluation purposes, but for production installations you should connect Crowd to an enterprise database. This also lets you take advantage of existing database backup and recovery procedures.

Select the page corresponding to your database, for help on setting up an external database:

- 2.1.1 HSQLDB
- 2.1.2 MS SQL Server
- 2.1.3 MySQL
- 2.1.4 Oracle
- 2.1.5 PostgreSQL

- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd
- 5. Installing Crowd as a Windows Service

2.1.1 HSQLDB

This page last changed on Feb 20, 2008 by smaddox.

The Standalone distribution of Crowd is shipped with an embedded HSQLDB database. When you run the Crowd Setup Wizard, you will be asked to choose a database. If you choose the embedded database, the data files will be stored in the Crowd Home directory, as configured during installation.

Also see http://hsqldb.sourceforge.net/doc/quide/ch01.html#N101C2.



HSQLDB should not be used as a production database. It is included for evaluation purposes only.

HSQLDB periodically must update its files to represent changes made in the database. In doing so, it must delete the current crowddb.data file on the file system (beneath the /database folder in your Crowd home directory) and replace it with a new one.

If an administrator issues a shutdown on Crowd while this update is happening, data can be lost and typically all configuration data for your Crowd server will be lost.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.2 Connecting CrowdID to a Database

 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.1.2 MS SQL Server

This page last changed on Feb 20, 2008 by smaddox.

When you run the Crowd Setup Wizard, you will be asked to choose a database and provide configuration settings for that database. It will make things easier if you have created the database and deployed the database driver before you start the Setup Wizard.

Follow the instructions below to set up MS SQL Server for Crowd.

1. Configure SQL Server

1. Create a database user which Crowd will connect as (e.g. crowduser).



In SQL Server, the database user (crowduser above) should not be the database owner, but should be in the db_owner role.

- 2. Create a database for Crowd to store data in (e.g. crowddb).
- 3. Ensure that the user has permission to connect to the database, and create and populate tables
- 2. Copy the SQL Server driver to your application server
 - 1. Download the SQL Server JDBC driver from JTDS (recommended), or I-net software (commercial).



Microsoft have their own JDBC driver but we strongly recommend avoiding it after our JIRA customers have reported various connection errors (JRA-5760, JRA-6872), workflow problems (JRA-8443) and Chinese character problems (JRA-5054).

2. Add the SQL Server JDBC driver jar (jtds-[version].jar) to the common/lib directory.

Next Steps

Complete the Crowd installation, then start Crowd and run the Setup Wizard as described in the Installation Guide.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID

 - 2.1 Connecting Crowd to a Database2.2 Connecting CrowdID to a Database
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.1.3 MySQL

This page last changed on Feb 12, 2008 by smaddox.

When you run the <u>Crowd Setup Wizard</u>, you will be asked to choose a database and provide configuration settings for that database. It will make things easier if you have created the database and deployed the database driver before you start the Setup Wizard.

Follow the instructions below to set up MySQL (5.0.37 and later) for Crowd.

1. Configure MySQL

- 1. Create a database user which Crowd will connect as (e.g. crowduser).
- 2. Create a database for Crowd to store data in (e.g. crowddb).
- 3. Ensure that the user has permission to connect to the database, and create and populate tables.

2. Copy the MySQL driver to your application server

- 1. Download the latest MySQL Connector/J JDBC driver.
- 2. Add the MySQL JDBC driver jar (mysql-connector-java-3.x.x-bin.jar) to the <code>common/lib/</code> directory. NOTE: Do not place the Debug Driver (mysql-connector-java-3.x.x-bin-g.jar) on the <code>CLASSPATH</code> as this can cause issues. (JRA-8674).

Next Steps

Complete the Crowd installation, then start Crowd and run the Setup Wizard as described in the Installation Guide.

- 1. System Requirements
 - 1.1 Setting JAVA_HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.2 Connecting CrowdID to a Database
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.1.4 Oracle

This page last changed on Feb 12, 2008 by smaddox.

When you run the <u>Crowd Setup Wizard</u>, you will be asked to choose a database and provide configuration settings for that database. It will make things easier if you have created the database and deployed the database driver before you start the Setup Wizard.

Follow the instructions below to set up Oracle for Crowd.

1. Configure Oracle

- 1. Create a database user which Crowd will connect as (e.g. crowduser).
- 2. Create a database for Crowd to store data in (e.g. crowddb).
- 3. Ensure that the user has permission to connect to the database, and create and populate tables

2. Copy the Oracle driver to your application server

- 1. Download the Oracle JDBC driver from http://www.oracle.com/technology/software/tech/java/sqlj jdbc/index.html.
- 2. Add the Oracle JDBC driver jar to the apache-tomcat-X.X.XX/common/lib directory.

Next Steps

Complete the Crowd installation, then start Crowd and run the Setup Wizard as described in the Installation Guide.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.2 Connecting CrowdID to a Database
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.1.5 PostgreSQL

This page last changed on Feb 20, 2008 by smaddox.

When you run the <u>Crowd Setup Wizard</u>, you will be asked to choose a database and provide configuration settings for that database. It will make things easier if you have created the database and deployed the database driver before you start the Setup Wizard.

Follow the instructions below to set up PostgreSQL for Crowd.

1. Configure PostgreSQL

- 1. Create a database user which Crowd will connect as (e.g. crowduser).
- 2. Create a database for Crowd to store data in (e.g. crowddb).
- 3. Ensure that the user has permission to connect to the database, and create and populate tables

2. Copy the PostgreSQL driver to your application server

- 1. Download the PostgreSQL JDBC driver from http://jdbc.postgresql.org/download.html. Get the JDBC 3 driver specific to your Postgres version, eq. postgresql-8.x-xxx.jdbc3.jar.
- 2. Add the PostgreSQL JDBC driver jar to the common/lib directory.

Next Steps

Complete the Crowd installation, then start Crowd and run the Setup Wizard as described in the Installation Guide.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.2 Connecting CrowdID to a Database
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.2 Connecting CrowdID to a Database

This page last changed on Feb 20, 2008 by smaddox.

CrowdID is a free add-on that ships with Crowd versions 1.1 and later.

By default, CrowdID in the Crowd 'Standalone' distribution is shipped preconfigured with <u>HSQL</u>. This is fine for evaluation purposes, but for production installations, you should connect CrowdID to an enterprise database. This also lets you take advantage of existing database backup and recovery procedures.



CrowdID database connection is not yet part of Setup Wizard

This page describes the procedure for connecting CrowdID to an external database. You'll notice that the procedure for connecting Crowd itself to a database is simpler, because the Crowd database connection is configured by the <u>Crowd Setup Wizard</u>. The CrowdID database configuration cannot be done as part of the Setup Wizard. We hope to improve the CrowdID integration soon. In the meantime, please follow the steps below.

The following instructions will allow you to configure CrowdID to an external database:

- 2.2.1 HSQLDB
- 2.2.2 MS SQL Server
- 2.2.3 MySQL
- 2.2.4 Oracle
- 2.2.5 PostgreSQL

Database Overview

CrowdID in the Crowd 'Standalone' distribution includes the Apache Tomcat application server and an inmemory HSQL database engine. This JNDI reference (CrowdIDDS) can be adjusted to use your custom database and driver by editing the Crowd.xml deployment description.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services

- 5.2 Changing the User for the Crowd Windows Service
 5.3 Removing the Crowd Windows Service
 5.4 Troubleshooting Crowd as a Windows Service

2.2.1 HSQLDB

This page last changed on Feb 12, 2008 by smaddox.

The default version of CrowdID uses an embedded HSQLDB database.

Also see http://hsqldb.sourceforge.net/doc/quide/ch01.html#N101C2.

HSQLDB periodically must update its files to represent changes made in the database. In doing so, it must delete the current crowddb.data file on the filesystem (beneath the /database folder) and replace it with a new one.

If an administrator issues a shutdown on CrowdID in this period, data can be lost, and typically all configuration data for your CrowdID server will be lost.



HSQLDB should not be used as a production database. It is included for evaluation purposes only.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
 - 4.2 Changing the Port that Crowd uses
- <u>5. Installing Crowd as a Windows Service</u>
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.2.2 MS SQL Server

This page last changed on Nov 29, 2007 by smaddox.

To connect CrowdID to MS SQL Server,

- 1. Configure SQL Server
 - 1. Create a database user which CrowdID will connect as (e.g. crowduser).
 - In SQL Server, the database user (crowduser above) should not be the database owner, but should be in the db_owner role.
 - 2. Create a database for CrowdID to store data in (e.g. crowdiddb). This must be a different database to the one used by Crowd.
 - 3. Ensure that the user has permission to connect to the database, and create and populate tables
- 2. Copy the SQL Server driver to your application server
 - 1. Download the SQL Server JDBC driver from <u>JTDS</u> (recommended, assumed below), or <u>I-net software</u> (commercial).
 - Microsoft have their own JDBC driver but we strongly recommend avoiding it after our JIRA customers have reported various connection errors (<u>JRA-5760</u>, [JRA-6872|http://jira.atlassian.com/browse/JRA-6872), workflow problems (<u>JRA-8443</u>) and Chinese character problems (<u>JRA-5054</u>).
 - 2. Add the SQL Server JDBC driver jar (jtds-[version].jar) to the common/lib directory.
- 3. Configure your application server to connect to SQL Server
 - 1. Edit the conf/Catalina/localhost/crowd.xml and customise the username, password, driverClassName and url parameters for the Datasource.

- 2. Delete the minEvictableIdleTimeMillis, timeBetweenEvictionRunsMillis and maxActive attributes (which are only needed for HSQL, and degrade performance otherwise).
- 4. Configure CrowdID to use MS SQL Server
 - 1. Edit the build.properties file (located in the root of the Standalone distribution) and modify the hibernate.dialect to the following:

 $\verb|hibernate.dialect=org.hibernate.dialect.SQLServerDialect|\\$

2. Then run the ./build.sh or build.bat. This will configure CrowdID to use the MS SQL Server dialect.

There is a problem with build.bat in Crowd version 1.2.0. To fix the problem, please apply the patch described in <u>CWD-638</u>.

If you do not wish to edit this file and run the build script, you can edit the jdbc.properties (which the above script modifies) directly. The jdbc.properties file is located here: crowd-openidserver-webapp \WEB-INF\classes\jdbc.properties; modify the file to the following:

- Crowd Configuration Options

```
hibernate.connection.datasource=java\:comp/env/jdbc/CrowdIDDS
hibernate.dialect=org.hibernate.dialect.SQLServerDialect
hibernate.transaction.factory_class=org.hibernate.transaction.JDBCTransactionFactory
```

. . .

Next Steps

You should now have an application server configured to connect to a database, and CrowdID configured to use the correct database. Now start up CrowdID and watch the logs for any errors.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.2.3 MySQL

This page last changed on Nov 29, 2007 by smaddox.

To connect CrowdID to MySQL,

1. Configure MySQL

- 1. Create a database user which Crowd will connect as (e.g. crowduser).
- Create a database for Crowd to store data in (e.g. crowdiddb). ¹ This must be a different database to the one used by Crowd.
- 3. Ensure that the user has permission to connect to the database, and create and populate tables.

2. Copy the MySQL driver to your application server

- 1. Download the latest MySQL Connector/J JDBC driver.
- 2. Add the MySQL JDBC driver jar (mysql-connector-java-3.x.x-bin.jar) to the common/lib/ directory. NOTE: Do not place the Debug Driver (mysql-connector-java-3.x.x-bin-g.jar) on the CLASSPATH as this can cause issues. (JRA-8674).
- 3. Configure your application server to connect to MySQL
 - 1. Edit the file apache-tomcat-X.X.XX/conf/Catalina/localhost/openidserver.xml and customise the username, password, driverClassName and url parameters for the Datasource.

The URL above assumes a LATIN-1 database - i.e. created with create database crowddb character set latin1;.



MySQL closes idle connections after 8 hours, so the autoReconnect=true is necessary to tell the driver to reconnect.

2. Delete the minEvictableIdleTimeMillis, timeBetweenEvictionRunsMillis and maxActive attributes (which are only needed for HSQL, and degrade performance otherwise).

4. Configure CrowdID to use MySQL

1. Edit the build.properties file (located in the root of the Standalone distribution) and modify the hibernate.dialect to the following. Please choose only one of the 3 available options depending on how you have configured your database server.

```
*For MySQL set:*
hibernate.dialect=org.hibernate.dialect.MySQLDialect
*For MySQL with InnoDB set:*
hibernate.dialect=org.hibernate.dialect.MySQLInnoDBDialect
```

```
*For MySQL with MyISAM set:*
hibernate.dialect=org.hibernate.dialect.MySQLMyISAMDDialect
```

2. Then run ./build.sh or build.bat. This will configure CrowdID to use the MySQL dialect. There is a problem with build.bat in Crowd version 1.2.0. To fix the problem, please apply the patch described in CWD-638.

If you do not wish to edit this file and run the build script, you can edit the jdbc.properties (which the above script modifies) directly. The jdbc.properties file is located here: crowd-openidserver-webapp \WEB-INF\classes\jdbc.properties. Modify the file to the following:

- Crowd Configuration Options

```
hibernate.connection.datasource=java\:comp/env/jdbc/CrowdIDDS
hibernate.dialect=org.hibernate.dialect.MySQLDialect
hibernate.transaction.factory_class=org.hibernate.transaction.JDBCTransactionFactory
```

. . .

Next steps

You should now have an application server configured to connect to a database, and CrowdID configured to use the correct database. Now start up CrowdID and watch the logs for any errors.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.2.4 Oracle

This page last changed on Nov 29, 2007 by smaddox.

To connect CrowdID to Oracle,

1. Configure Oracle

- 1. Create a database user which Crowd will connect as (e.g. crowduser).
- 2. Create a database for Crowd to store data in (e.g. crowdiddb). 4 This must be a different database to the one used by Crowd.
- 3. Ensure that the user has permission to connect to the database, and create and populate tables.

2. Copy the Oracle driver to your application server

- 1. Download the Oracle JDBC driver from http://www.oracle.com/technology/software/tech/java/sqlj jdbc/index.html.
- 2. Add the Oracle JDBC driver jar to the common/lib directory.

3. Configure your application server to connect to Oracle

1. Edit the file apache-tomcat-X.X.XX/conf/Catalina/localhost/openidserver.xml and customise the username, password, driverClassName and url parameters for the Datasource.

2. Delete the minEvictableIdleTimeMillis, timeBetweenEvictionRunsMillis and maxActive attributes (which are only needed for HSQL, and degrade performance otherwise).

4. Configure CrowdID to use Oracle

1. Edit the build.properties file (located in the root of the standalone release) and modify the hibernate.dialect to the following

```
hibernate.dialect=org.hibernate.dialect.OracleDialect
```

Then run ./build.sh or build.bat. This will configure crowd to use the Oracle dialect. There is a problem with build.bat in Crowd version 1.2.0. To fix the problem, please apply the patch described in CWD-638.

If you do not wish to edit this file and run the build script, you can edit the jdbc.properties (which the above script modifies) directly. The jdbc.properties file is located here: crowd-openidserver-webapp \WEB-INF\classes\jdbc.properties. Modify the file to the following:

```
\# - Crowd Configuration Options
```

```
hibernate.connection.datasource=java\:comp/env/jdbc/CrowdIDDS hibernate.dialect=org.hibernate.dialect.Oracle
```

hibernate.transaction.factory_class=org.hibernate.transaction.JDBCTransactionFactory

Next Steps

You should now have an application server configured to connect to a database, and CrowdID configured to use the correct database. Now start up CrowdID and watch the logs for any errors.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database

 - 2.1.1 HSQLDB 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
- 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.2.5 PostgreSQL

This page last changed on Nov 29, 2007 by smaddox.

To connect CrowdID to PostgreSQL,

1. Configure PostgreSQL

- 1. Create a database user which CrowdID will connect as (e.g. crowduser).
- 2. Create a database for CrowdID to store data in (e.g. crowdiddb). This must be a different database to the one used by Crowd.
- 3. Ensure that the user has permission to connect to the database, and create and populate tables.

2. Copy the PostgreSQL driver to your application server

- 1. Download the PostgreSQL JDBC driver from http://jdbc.postgresql.org/download.html. Get the JDBC 3 driver specific to your Postgres version, eg. + postgresql-8.x-xxx.jdbc3.jar.
- 2. Add the PostgreSQL JDBC driver jar to the common/lib directory.

3. Configure your application server to connect to PostgreSQL

1. Edit the file apache-tomcat-X.X.XX/conf/Catalina/localhost/openidserver.xml and customise the username, password, driverClassName and url parameters for the Datasource.

2. Delete the minEvictableIdleTimeMillis, timeBetweenEvictionRunsMillis and maxActive attributes (which are only needed for HSQL, and degrade performance otherwise).

4. Configure CrowdID to use PostgreSQL

1. Edit the build.properties file located in the root of the standalone release and modify the hibernate.dialect to the following

```
hibernate.dialect=org.hibernate.dialect.PostgreSQLDialect
```

2. Then run ./build.sh or build.bat. This will configure crowd to use the PostgreSQL dialect.
There is a problem with build.bat in Crowd version 1.2.0. To fix the problem, please apply the patch described in CWD-638.

If you do not wish to edit this file and run the build script, you can edit the jdbc.properties (which the above script modifies) directly. The jdbc.properties file is located here: crowd-openidserver-webapp \WEB-INF\classes\jdbc.properties. Modify the file to the following:

```
# - Crowd Configuration Options
```

 $\verb|hibernate.connection.datasource=java\\|:comp/env/jdbc/CrowdIDDS||$

 $\label{limits} hibernate. \verb|dialect=org.hibernate.dialect.PostgreSQLDialect| hibernate.transaction.factory_class=org.hibernate.transaction.JDBCTransactionFactory| and the state of the s$

. . .

Next Steps

You should now have an application server configured to connect to a database, and CrowdID configured to use the correct database. Now start up CrowdID and watch the logs for any errors.

- 1. System Requirements
 - 1.1 Setting JAVA HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- · 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

2.3 Installing Crowd and CrowdID WAR Distribution

This page last changed on Feb 20, 2008 by smaddox.



The Crowd and CrowdID WAR distributions are intended for deployment onto an existing J2EE application server. It is assumed that you already know how to deploy a web application onto your chosen application server. If not, please contact your system administrator to assist you, or consider installing the Crowd Standalone distribution instead.

The standard <u>Crowd installation guide</u> tells you how to install the Standalone distribution of Crowd, which includes <u>Apache Tomcat</u>. Instead, you may wish to deploy Crowd or CrowdID onto your own existing application server. For this purpose, we provide WAR (Webapp ARchive) distributions of the Crowd and CrowdID server applications.

Crowd supports all the application servers listed in **System Requirements**.

The procedures for connecting Crowd and CrowdID are slightly different. The Crowd setup process provides the option of JDBC or JNDI datasource connections via the <u>Crowd Setup Wizard</u>. CrowdID requires a JNDI datasource configuration. Detailed instructions are on the following pages:

- 2.3.1 Installing Crowd WAR Distribution
- 2.3.2 Installing CrowdID WAR Distribution

- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd
- 5. Installing Crowd as a Windows Service

2.3.1 Installing Crowd WAR Distribution

This page last changed on Feb 20, 2008 by smaddox.



The Crowd and CrowdID WAR distributions are intended for deployment onto an existing J2EE application server. It is assumed that you already know how to deploy a web application onto your chosen application server. If not, please contact your system administrator to assist you, or consider installing the Crowd Standalone distribution instead.

The standard Crowd installation guide tells you how to install the Standalone distribution of Crowd, which includes Apache Tomcat. Instead, you may wish to deploy Crowd or CrowdID onto your own existing application server. For this purpose, we provide WAR (Webapp ARchive) distributions of the Crowd and CrowdID server applications.

Crowd supports all the application servers listed in **System Requirements**.

Below is a generic overview of the steps required to install the Crowd WAR distribution. You will need to perform specific configuration steps depending upon your application server. As well as the generic instructions below, we also provide specific instructions on the following pages:

- Configuring Crowd & CrowdID on Tomcat 5.5.x
- Installing Crowd WAR on JBoss

Dependencies

Refer to the system requirements.



🔼 Please make sure that all dependencies are installed, otherwise Crowd will not run properly.

Overview of the Crowd WAR Installation Steps

- 1. Download the Crowd WAR distribution from the Crowd download centre.
 - $foldsymbol{f j}$ You will find the WAR archives for the Crowd and the CrowdID applications by clicking the Show advanced downloads link. You will need to deploy each application separately. For the rest of these instructions, we assume you are deploying Crowd WAR.
- 2. Please check your unzip program before extracting the downloaded archive, as some unzip programs can cause errors — see the note on the Crowd installation front page.
- 3. Unzip the download archive into a directory of your choice. We'll call it CROWD in the rest of these
- 4. Specify your Crowd Home directory by editing the configuration file at server/default/deploy/ crowd.war/WEB-INF/classes/crowd-init.properties.

The Crowd Home directory is where Crowd will store its configuration information. If you are using the embedded HSQL database, supplied for evaluation purposes, Crowd will also store its database in this directory. To specify the directory:

- Open the crowd-init.properties file.
- Choose the appropriate line in the file, depending upon your operating system (see below).
- Remove the # at the beginning of the line.
- · Enter the name of the directory you want Crowd to use as its Home directory. For example,
 - On Windows:

crowd.home=c:/data/crowd-home

Note: On Windows, make sure you use forward slashes as shown above, not backward slashes.

On Mac and Unix-based systems:

crowd.home=/var/crowd-home

- Save the crowd-init.properties file.
- 5. Create a database in your chosen database server.
- 6. Copy the JDBC driver into your application server's classpath.
- 7. Modify file CROWD/WEB-INF/classes/crowd.properties to point to the port of your application server. 8080 is the default, and is shown in the example below:

crowd.server.url=http://localhost:8080/crowd/services/
application.login.url=http://localhost:8080/crowd/console/

- 8. Depending upon your application server, you may need to zip up the WAR file again before deploying it. Place the CROWD directory or the WAR file into your application server's deployment directory. Please consult the server-specific documentation on how to do this. A few Atlassian best practice guides are listed here:
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
- 9. Restart your application server.
- 10. Point a web browser at the IP address and port that your application server is running on (typically http://localhost:8080). The Crowd Setup Wizard will start.

- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd
- 5. Installing Crowd as a Windows Service

Configuring Crowd & CrowdID on Tomcat 5.5.x

This page last changed on Feb 14, 2008 by donna@atlassian.com.

Configuring a Crowd 'context' in Tomcat:

1. Create a file called crowd.xml that contains the following context:

```
<Context path="/crowd" docBase="/path/to/atlassian-crowd-1.3-war-directory"
reloadable="false"/>
```

2. Place it in your Tomcat's conf/Catalina/localhost/ directory.

Modify the /path/to/atlassian-crowd-1.3-war-directory to reflect the actual path to your Crowd WAR distribution. To avoid problems with your deployment, this should NOT be Tomcat's webapps directory.

If you are installing in Windows, make sure that the paths you specify for the location of the WAR file and database are full paths with drive letters.

Configuring a CrowdID 'context' in Tomcat:

If you are deploying CrowdID, you will need to specify a JNDI datasource.

1. Create a file called openidserver.xml that resembles the following example for a MySQL database:

1. Place it in your Tomcat's conf/Catalina/localhost/ directory.

Modify the /path/to/atlassian-crowd-openid-1.3-war-directory to reflect the actual path to your CrowdID WAR distribution. To avoid problems with your deployment, this should NOT be Tomcat's webapps directory. Modify appropriately for your database (e.g. Oracle, Postgres, etc.)

Please remember to update the driveClassName and copy the JDBC driver jar to your Tomcat's common/lib/directory.

Installing Crowd WAR on JBoss

This page last changed on Feb 20, 2008 by smaddox.

The standard <u>Crowd installation guide</u> tells you how to install the Standalone distribution of Crowd, which includes <u>Apache Tomcat</u>. You may wish to deploy Crowd on your own existing application server instead. For this purpose, we provide WAR (Webapp ARchive) distributions of the Crowd and CrowdID server applications.

- 1 This page shows one example use it as a basis for other installations
 - This page tells you how to deploy Crowd onto a <u>JBoss Application Server</u>. For other application servers, refer to the generic WAR setup guide.
 - On this page, we have used <u>PostgreSQL</u> as an example of a database connected via a JNDI datasource. Crowd supports all the databases listed in the <u>System Requirements</u>. Refer to <u>2.1 Connecting Crowd to a Database</u> for instructions on connecting Crowd to your enterprise database.

Follow the steps below to install Crowd on JBoss 4.2.2 GA using a PostgreSQL database:

- 1. Download the WAR distribution from the Crowd download centre.
 - 1 You will find the WAR archives for the Crowd and the CrowdID applications. You will need to deploy each application separately. For the rest of these instructions, we assume you are deploying Crowd WAR
- 2. Please check your unzip program before extracting the downloaded archive, as some unzip programs can cause errors see the note on the <u>Crowd installation front page</u>.
- 3. Unzip the download archive into a directory of your choice. We'll call it <code>server/default/deploy/crowd.war</code> in the rest of these instructions.
- 4. Specify your Crowd Home directory by editing the configuration file at server/default/deploy/crowd.war/WEB-INF/classes/crowd-init.properties.

The Crowd Home directory is where Crowd will store its configuration information. If you are using the embedded HSQL database, supplied for evaluation purposes, Crowd will also store its database in this directory. To specify the directory:

- Open the crowd-init.properties file.
- Choose the appropriate line in the file, depending upon your operating system (see below).
- Remove the # at the beginning of the line.
- Enter the name of the directory you want Crowd to use as its Home directory. For example,
 - on Windows:

```
crowd.home=c:/data/crowd-home
```

Note: On Windows, make sure you use forward slashes as shown above, not backward slashes.

On Mac and Unix-based systems:

```
crowd.home=/var/crowd-home
```

- Save the crowd-init.properties file.
- 5. Add file server/default/deploy/crowd.war/WEB-INF/jboss-web.xml, with the following contents:

```
<jboss-web>
  <resource-ref>
    <res-ref-name>jdbc/CrowdDS</res-ref-name>
    <res-type>javax.sql.DataSource</res-type>
    <jndi-name>java:CrowdDS</jndi-name>
```

```
</resource-ref>
</jboss-web>
```

- 6. Create database crowd_db in PostgreSQL.
- 7. Add a datasource definition file server/default/deploy/postgres-ds.xml:

8. Modify file server/default/deploy/crowd.war/WEB-INF/classes/crowd.properties to point to the port of the JBoss server. 8080 is the default port number, and is shown in the example below:

```
crowd.server.url=http://localhost:8080/crowd/services/
application.login.url=http://localhost:8080/crowd/console/
```

- 9. Start JBoss with run.sh (Unix-based systems) or run.bat (Windows).
- 10. Point a web browser at http://localhost:8080/ where you will see the Crowd Setup Wizard.

- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd
- 5. Installing Crowd as a Windows Service

2.3.2 Installing CrowdID WAR Distribution

This page last changed on Feb 20, 2008 by smaddox.



The Crowd and CrowdID WAR distributions are intended for deployment onto an existing J2EE application server. It is assumed that you already know how to deploy a web application onto your chosen application server. If not, please contact your system administrator to assist you, or consider installing the Crowd Standalone distribution instead.

The standard Crowd installation guide tells you how to install the Standalone distribution of Crowd, which includes Apache Tomcat. Instead, you may wish to deploy Crowd or CrowdID onto your own existing application server. For this purpose, we provide WAR (Webapp ARchive) distributions of the Crowd and CrowdID server applications.

Crowd supports all the application servers listed in System Requirements.

Below is a generic overview of the steps required to install the CrowdID WAR distribution. You will need to perform specific configuration steps, depending upon your application server. As well as the generic instructions below, we also provide server-specific instructions on the following pages:

Configuring Crowd & CrowdID on Tomcat 5.5.x

Dependencies

Refer to the system requirements.



🔼 Please make sure that all dependencies are installed, otherwise Crowd will not run properly.

Overview of the CrowdID WAR Installation Steps

- 1. Download the CrowdID WAR distribution from the Crowd download centre.
 - $oldsymbol{0}$ You will find the WAR archives for the Crowd and the CrowdID applications. You will need to deploy each application separately. For the rest of these instructions, we assume you are deploying CrowdID WAR.
- 2. Please check your unzip program before extracting the downloaded archive see the note on the Crowd installation front page.
- 3. Unzip the download archive into a directory of your choice. We'll call it CROWDID in the rest of these instructions.
- 4. Create a database in your chosen database server and add the required datasource definition file to your application server.
- 5. Modify file CROWDID/WEB-INF/classes/jdbc.properties to use your chosen Hibernate database dialect, as explained in the previous step.
- 6. Modify file CROWDID/WEB-INF/classes/crowd.properties to point to the port of your application server. 8080 is the default, and is shown in the example below:

crowd.server.url=http://localhost:8080/crowd/services/ application.login.url=http://localhost:8080/crowd/console/

- 7. Depending upon your application server, you may need to zip up the WAR file again before deploying it. Place the CROWDID directory or the WAR file into your application server's deployment directory. Please consult the server-specific documentation on how to do this.
- 8. Restart your application server.
- 9. Point a web browser at the IP address and port that your application server is running on (typically http://localhost:8080). The Crowd Setup Wizard will start.

- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard

- 4. Configuring Crowd5. Installing Crowd as a Windows Service

Specifying your Crowd Home Directory

This page last changed on Feb 20, 2008 by smaddox.

The Crowd Home directory is where Crowd will store its configuration information. If you are using the embedded HSQL database, supplied for evaluation purposes, Crowd will also store its database in this directory. To specify the directory:

- Open the crowd-init.properties file.
- Choose the appropriate line in the file, depending upon your operating system (see below).
- Remove the # at the beginning of the line.
- Enter the name of the directory you want Crowd to use as its Home directory. For example,
 - on Windows:

crowd.home=c:/data/crowd-home

Note: On Windows, make sure you use forward slashes as shown above, not backward slashes. On Mac and Unix-based systems:

crowd.home=/var/crowd-home

• Save the crowd-init.properties file.

3. Running the Setup Wizard

This page last changed on Feb 20, 2008 by smaddox.

Before running the Setup Wizard described below, please follow the instructions on installing Crowd.

When you access the Crowd Administration Console for the first time, you will see the Crowd Setup Wizard. This is a series of screens which will prompt you to configure your database connection and to supply some default values (which you can change later if necessary).

On this page:

- · Step 1. Starting the Setup Wizard
- Step 2. Licensing
- Step 3. Installation Type
- Step 4. Database Configuration
- Step 5. (Optional) Import Existing Crowd Data
- · Step 6. Options
- Step 7. Mail Server
- · Step 8. Default Directory
- Step 9. Default Administrator
- Step 10. Integrated Applications
- · Step 11. Setup Complete



Do you need to restart the Setup Wizard from the beginning?

Read this hint in the Crowd Knowledge Base.

Step 1. Starting the Setup Wizard

Go to the following URL in your web browser: http://localhost:8095/crowd or <a href="http://localhost:8095

- If there are no errors, you should see the 'License' screen described <u>below</u>.
- If there is an error in your configuration, you will see the 'Crowd Checklist' screen. Read more about troubleshooting your installation.

Step 2. Licensing

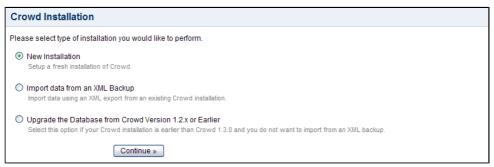


Crowd licenses are based on the number of end-users who will log in to the applications that are integrated with Crowd.

You can obtain an evaluation license from the $\underline{\text{Atlassian}}$ website. When you obtain an evaluation license — or purchase, renew or upgrade your license — you will receive a license key via email or on the Atlassian website.

Type or paste your license key into the 'License' field, shown on the screenshot above.

Step 3. Installation Type



In this step, you will choose whether to set up a new Crowd database or restore an existing database. Choose an option as follows:

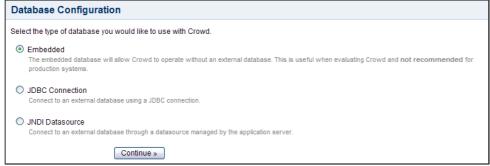
- 'New Installation' Set up a new Crowd database.
 - Hint: Choose this option if you are evaluating Crowd.
- 'Import data from an XML Backup' Import your Crowd data from an XML backup file, which has been exported from your existing Crowd installation.
- 'Upgrade the Database from Crowd Version 1.2.x or Earlier' Select this option if your Crowd installation is earlier than Crowd 1.3.0 and you don't want to import your data from an XML backup. This option is provided for backwards-compatibility with earlier versions of Crowd. It allows you to upgrade a pre-1.3.0 Crowd database.
 - 1 If your current Crowd installation is for Crowd 1.3.0 or later, you cannot use this option. Instead, please follow the <u>upgrade instructions</u>.

Step 4. Database Configuration

The 'Database Configuration' screen allows you to choose the type of database connection, as described below.

If in any doubt, choose the default 'Embedded' option for evaluation purposes.

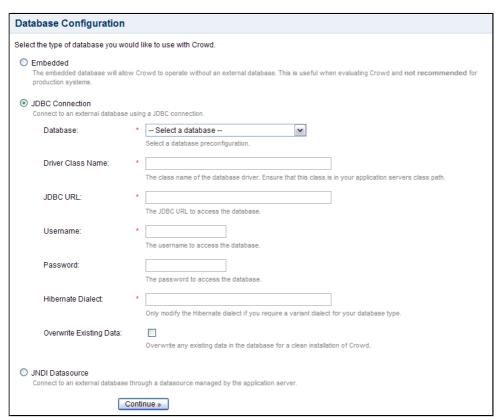
Option 1: Embedded HSQLDB Database (For Evaluation Purposes Only)



Crowd 'Standalone' is shipped with an embedded <u>HSQLDB</u> database. If you choose the 'Embedded' option, the data files are stored in the Crowd Home directory, as configured on <u>installation</u>.

The HSQLDB database is fine for evaluation purposes, but for production installations you should connect Crowd to an enterprise database using the JDBC or JNDI datasource connections described below. This also lets you take advantage of your existing database backup and recovery procedures.

Option 2: JDBC Connection



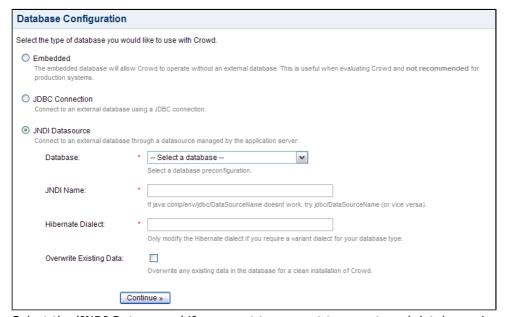
Select the 'JDBC Connection' if you want to connect to an external database via a JDBC connection. (If you have not yet created your database for Crowd, follow the <u>database setup instructions</u>.)

Supply the details for your database:

Field	Description
Database	Select your database server type.
Driver Class Name	Enter the class name for your database driver. Make sure that the class is in the class path on your application server. See guidelines on creating your specific database.
JDBC URL	Enter the URL at which Crowd can access the database JDBC connection.
Username	Enter the username which Crowd will use to access the database.
Password	Enter the password corresponding to the above username.
Hibernate Dialect	This is the Hibernate configuration for the selected database type. The Crowd installation will supply a default dialect for the database type you have chosen. You should only alter this dialect if you need an alternative for the database type or are using an unsupported database type.

Overwrite Existing Data	Crowd will ask you to confirm that existing data should be overwritten, if both of the following are true:
	 You chose 'New Installation' or 'Import data from an XML Backup' in Step 3 <u>above</u>, and The database configured on the <u>above</u> <u>screen</u> already exists and contains Crowd data.

Option 3: JNDI Datasource



Select the 'JNDI Datasource' if you want to connect to an external database via a datasource managed by your application server.

Supply the details for your database:

Field	Description
Database	Select your database server type.
JNDI Name	Enter the datasource name, e.g. jdbc/CrowdDS or java:comp/env/jdbc/CrowdDS.
Hibernate Dialect	This is the Hibernate configuration for the selected database type. The Crowd installation will supply a default dialect for the database type you have chosen. You should only alter this dialect if you need an alternative for the database type or you have selected an unsupported database type.
Overwrite Existing Data	Crowd will prompt you to confirm that existing data should be overwritten, if both of the following are true: • You chose 'New Installation' or 'Import data from an XML Backup' in Step 3 above, and



Step 5. (Optional) Import Existing Crowd Data



This screen will appear only if you selected 'Import data from an XML Backup' in Step 3 above.

In 'File Location', enter the full path to your XML backup file including the name of the XML file.



Upgrading from an existing Crowd installation?

If you have connected to an existing database or imported your data from XML, the setup will be complete once you have clicked 'Continue' on the above screen. See Step 11 below and read more about upgrading Crowd.

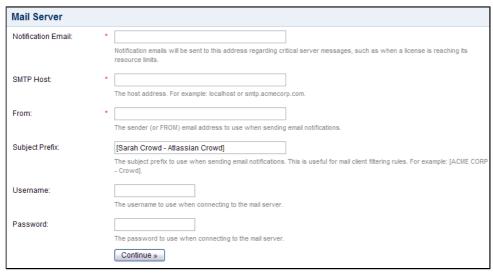
Step 6. Options



This part of the setup process allows you to specify general options for the Crowd server. You can change these values later, via the <u>Crowd Administration Console</u>.

- The deployment title specifies a unique name for your Crowd instance. The deployment title can be used when sending email:notifications.
- The session timeout determines how long a session will be considered valid during any period of inactivity. This value is specified in minutes and must be greater than 0.

Step 7. Mail Server

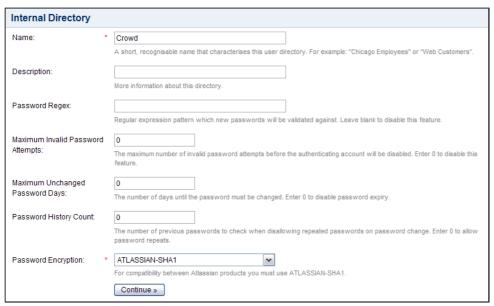


Crowd can send email notifications to users for specific events, such as when a password is reset.

Enter the details of your mail server, and the username and password (if required) that Crowd will use to log in to your mail server, then click the 'Update' button:

- Notification Email The email address which will receive notifications about server events.
- SMTP Host The hostname of the SMTP mail server, e.g. 'localhost' or 'smtp.acme.com'.
- From The email address from which password notifications will be sent to users.
- Subject Prefix The prefix which will appear at the start of the email subject, for all emails generated by Crowd. This can be useful for email client programs that offer filtering rules.
- Username The username that your Crowd server will use when it logs in to your mail server.
- Password The password that your Crowd server will use when it logs in to your mail server.

Step 8. Default Directory



Please configure a default user directory. For information about configuring different types of directories (Internal, LDAP, Delegated Authentication or Custom) refer to 2.2 Adding a Directory.

Crowd administrators group is in default directory
The default group crowd-administrators will be automatically created in the default directory. Members of this group have rights to administer Crowd.

Step 9. Default Administrator



Please specify a default Crowd administrator. The default administrator will be automatically added to the default group <code>crowd-administrators</code>, thereby giving them rights to access the Crowd Administration Console.

Step 10. Integrated Applications



You have the option to auto-configure two applications. We recommend that you select 'True' for both:

- OpenID Server This is the CrowdID application, which allows you to provide <u>OpenID</u> services for your end-users. For details please see the <u>CrowdID Administration Guide</u> and the <u>CrowdID User</u> Guide.
- Demo Application The 'demo' application is an example of an <u>application integrated with Crowd</u>.
 It highlights best practices for using the Crowd framework, and is provided to assist you with quickly setting up and configuring Crowd. The Crowd download zip file (archive) contains the entire source for the 'demo' application, which you can use as an example when <u>integrating your custom web applications</u>.

Step 11. Setup Complete

Setup Wizard Complete Congratulations! You have successfully installed and configured Crowd. Next, click the Continue button to log in, using the administrator account which you created during the setup. Continue >

You are now ready to use the <u>Crowd Administration Console</u>. For details, please see the <u>Crowd Administration Guide</u>.

RELATED TOPICS

- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd
- 5. Installing Crowd as a Windows Service

3.1 Troubleshooting your Configuration on Setup

This page last changed on Feb 12, 2008 by smaddox.

This page describes the 'Crowd Checklist' screen and tells you how to use the screen to troubleshoot your initial Crowd configuration. The 'Crowd Checklist' screen may appear when you start the <u>Setup Wizard</u> after <u>installing Crowd</u>.

1 The 'Crowd Checklist' appears only if there is an error in your environment configuration, preventing you from completing the Setup Wizard.

Troubleshooting your Configuration Problems

The 'Crowd Checklist' shows a list of environmental requirements on the left and a 'Status' for each setting on the right. A red exclamation mark

indicates a problem with one of the settings.

) in the 'Status' column

Environmental Requirement	Possible Error Message	Solution
Java Development Kit 1.5 or higher	(The screen will show the version of JDK detected in your system, with a red exclamation mark in the 'Status' column if insufficient.)	Refer to the System Requirements page for information about the JDK required and where you can get it.
Servlet 2.3 API or higher	(The screen will show the application server and version detected in your system, with a red exclamation mark in the 'Status' column if insufficient.)	Make sure that the servlet container on your application server supports the Servlet 2.3 specification. Note: Crowd ships with Apache Tomcat (5.5.x) which is compliant.
Crowd Home directory	Invalid home directory specified in {CROWD-INSTALL}/crowd-webapp/WEB-INF/classes/crowd-init.properties. Please edit this file and set the crowd.home value to a directory of your choice. Crowd will use this directory to store its configuration files.	Define the directory which you want Crowd to use as its 'home'. Read all about it in the installation guide.

Screenshot: 'Crowd Checklist'

Crowd Checklist	
Welcome to Crowd. Your environment is not configured correctly. Please fix the problems below and restart Crowd. For more information.	ion please consult the <u>Crowd</u>
	Status
Java Development Kit 1.5 or higher Found: Sun Microsystems Inc 1.6.0_04	0
Servlet 2.3 API or higher Found: Apache Tomcat/5.5.25	•
Crowd Home directory Invalid home directory specified in: /C:/Atlassian/atlassian-crowd-1.3-SNAPSHOT/apache-tomcat/webapps/.J./crowd-webappWEB-INF/classes/crowd-init.properties. Please edit this file and set the crowd.home value to a directory of your choice. Crowd will use this directory to store its configuration files. Upgrading from another 1.3.x instance? Set your crowd.home value to point to the old crowd.home directory.	•

The above screenshot shows a problem with the setting of the Crowd home directory.

- 1. System Requirements
 2. Installing Crowd and CrowdID
 3. Running the Setup Wizard
 4. Configuring Crowd
 5. Installing Crowd as a Windows Service

4. Configuring Crowd

This page last changed on Feb 17, 2008 by smaddox.

You can configure Crowd to suit your environment, as described on the following pages:

- 4.1 Important Directories and Files
- 4.2 Changing the Port that Crowd uses

- Specifying your Crowd Home Directory
- Configuring an SSL Certificate for Microsoft Active Directory
- Troubleshooting your Configuration on Setup
- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd
- 5. Installing Crowd as a Windows Service

4.1 Important Directories and Files

This page last changed on Feb 28, 2008 by smaddox.

This page contains information about the important directories and files to be aware of when configuring Crowd.

On this page:

- The Crowd Home Directory
- <u>The crowd.cfg.xml File</u>
- The Crowd Installation Directory
 - The crowd-init.properties File
 - The crowd.properties File
 - The build.properties File
 - The build.xml File

• When configuring an application to work with Crowd, you will be interested in the <u>crowd.properties</u> file.

The Crowd Home Directory

The Crowd Home directory is where Crowd will store its configuration information. If you are using the embedded HSQL database, supplied for evaluation purposes, Crowd will also store its database in this directory.

The location of this directory is specified in the <code>crowd-init.properties</code> file described below. You can set the location during installation.

Crowd's **System Information** screen shows the location of your Crowd Home directory.

Important files in the Crowd Home directory, listed here and described below:

• The growd.gfg.xml File

The crowd.cfg.xml File

This file stores the configuration information for the Crowd Administration Console application:

- · License information
- Server ID
- · Database configuration properties
- · Setup phase reached.

The contents of this file is automatically generated when you run the Crowd Setup Wizard.

The file is located in the Crowd Home directory, described <u>above</u>.

Here's an example of the content of crowd.cfg.xml, when the embedded HSQL database was specified at setup:

```
cproperty name="hibernate.c3p0.max_statements">0/property>
  cproperty name="hibernate.c3p0.min_size">0</property>
  cproperty name="hibernate.c3p0.timeout">30</property>
  cproperty name="hibernate.connection.password"></property>
  cproperty name="hibernate.connection.username">sa</property>
  cproperty name="hibernate.dialect">org.hibernate.dialect.HSQLDialect/property>
  property name="hibernate.setup">true/property>
property>
  property
name="license.message">nQQuwnpnROOOrQMrppvxRqROoprPnQomnTtxSsuXstWwSxpOrrMsmvUUnnuprorommmmmUUnnuprorommmmmUU1
property>
 </properties>
</application-configuration>
```

The Crowd Installation Directory

This is the directory into which the downloaded Crowd application has been unzipped during installation.

Important files in the Crowd Installation directory, listed here and described below:

- The crowd-init.properties File
- The crowd.properties File
- The build.properties File
- The build.xml File

The crowd-init.properties File

This is where you specify your Crowd Home directory (described <u>above</u>). You can set the location during <u>installation</u>.

The file is located in the Crowd Installation directory at {CROWD_INSTALL}\crowd-webapp\WEB-INF\classes\crowd-init.properties

The file content looks something like this before it has been customised:

```
## You can specify your crowd.home property here or in your system environment variables.
# On Windows-based operating systems, uncomment the following
# line and set crowd.home to a directory Crowd should use to
# store its configuration.
# NOTE: use forward slashes instead of backward slashes
#crowd.home=c:/data/crowd-home
# On Unix-based operating systems, uncomment the following
# line and set crowd.home to a directory Crowd should use to
# store its configuration.
#crowd.home=/var/crowd-home
```

The crowd.properties File

The crowd.properties file contains application configuration settings. Each application integrated with Crowd will have a corresponding crowd.properties file. See 3.2 Adding an Application.

The Crowd Administration Console application also has its own <code>crowd.properties</code> file, which is located in the Crowd Installation directory at

{CROWD_INSTALL}\crowd-webapp\WEB-INF\classes

For more information about the settings, refer to <u>The crowd.properties File</u>. See also <u>Passing the crowd.properties File</u> as an <u>Environment Variable</u>.

The build.properties File

This configuration file stores various deployment properties of Crowd and the 'demo' application.

The file is located at the root of your Crowd Installation directory (described above).

The default build.properties file will look similar to the following:

- # Modify the attributes of this file to quickly adjust the deployment values of Crowd.
- # The Hibernate database dialect to use. hibernate.dialect=org.hibernate.dialect.HSQLDialect
- # The Hibernate transaction factory to use. hibernate.transaction.factory_class=org.hibernate.transaction.JDBCTransactionFactory
- # The http port you wish to run crowd from, ie: http://localhost:8095/crowd crowd.tomcat.connector.port=8095
- # Tomcat requires a unique port for shutdown
 crowd.tomcat.shutdown.port=8020
- # Crowd context root
 crowd.url=http://localhost:8095/crowd
- # Demo context root
 demo.url=http://localhost:8095/demo
- # OpenID server context root
 openidserver.url=http://localhost:8095/openidserver

Parameter	Description	
hibernate.dialect	This parameter controls the database dialect the Hibernate persistence system will use when executing commands versus your database server.	
hibernate.transaction.factory_clas	s This parameter controls the transaction factory to use when executing transactions at runtime: Hibernate provides two generic options, additional application server specific options are available:	
	 org.hibernate.transaction delegates to database (JDBC) transactions (default). org.hibernate.transaction delegates to JTA (if an existing transaction is under way, the work 	-

	performed is done in that context. Otherwise a new transaction is started).
crowd.url	The path and port for the root of the <u>Crowd Administration</u> <u>Console</u> web-application.
demo.url	The path and port for the root of the <u>Crowd demo</u> web-application
openidserver.url	The path and port for the root of the CrowdID web-application

The build.xml File

This is an Ant script that loads properties from the build properties configuration file.

The file is located at the root of your Crowd Installation directory (described above).

If configuring Crowd and/or the demo application to run on a port and context path other than the default, you will need to run the command <code>build.sh</code> (or <code>build.sh</code>) against the <code>build.xml</code> configuration file. This process will then edit all of the necessary Crowd configuration files for your deployment.

The sample output from running build.xml will look similar to the following:

```
shamid@mocha:~/atlassian-crowd-1.1.0$ ./build.sh
Buildfile: build.xml
init:
assistant:
 Changing Tomcat's connector port to 8095
Changing Tomcat's shutdown port to 8020
Configuring the Crowd Console
Copying crowd.properties to: crowd-webapp/WEB-INF/classes
Copying 1 file to /home/shamid/atlassian-crowd-1.1.0/crowd-webapp/WEB-INF/classes
Configuring the Crowd hibernate configuration
Updating the HibernateDialect and TransactionFactory in crowd-webapp/WEB-INF/classes/
jdbc.properties
Updating property file: /home/shamid/atlassian-crowd-1.1.0/crowd-webapp/WEB-INF/classes/
jdbc.properties
Configuring the demo application
Renaming and copying demo.properties to: demo-webapp/WEB-INF/classes/crowd.properties
Copying 1 file to /home/shamid/atlassian-crowd-1.1.0/demo-webapp/WEB-INF/classes
Configuring the OpenID server application
Renaming and copying openidserver.properties to: crowd-openidserver-webapp/WEB-INF/classes/
crowd.properties
Copying 1 file to /home/shamid/atlassian-crowd-1.1.0/crowd-openidserver-webapp/WEB-INF/classes
Configuring the OpenID hibernate configuration
Updating the HibernateDialect and TransactionFactory in crowd-openidserver-webapp/WEB-INF/classes/
jdbc.properties
Updating property file: /home/shamid/atlassian-crowd-1.1.0/crowd-openidserver-webapp/WEB-INF/
classes/jdbc.properties
BUILD SUCCESSFUL
```

RELATED TOPICS

Total time: 2 seconds

- 1. System Requirements
- 2. Installing Crowd and CrowdID
- 3. Running the Setup Wizard
- 4. Configuring Crowd

• 5. Installing Crowd as a Windows Service

The crowd.properties File

This page last changed on Feb 28, 2008 by smaddox.

The attributes of the <code>crowd.properties</code> file are as follows:

Attribute	Description
The indicates	Description
application.name	The name that the application will use when authenticating with the Crowd server. This needs to match the name you specified in 3.2 Adding an Application.
application.password	The password that the application will use when authenticating with the Crowd server. This needs to match the password you specified in 3.2 Adding an Application.
application.login.url	The URL to which to redirect the user should their authentication token expire or be invalid due to security restrictions.
crowd.server.url	The URL to use when connecting with the integration libraries to communicate with the Crowd server.
session.isauthenticated	The session key to use when storing a Boolean value indicating whether the user is authenticated or not.
session.tokenkey	The session key to use when storing a String value of the user's authentication token.
session.validationinterval	The session key to use when storing an Integer value of the number of minutes between authentication validation. If this value is set to 0, each HTTP request will be authenticated.
session.lastvalidation	The session key to use when storing a Date value of the user's last authentication.

RELATED TOPICS

Passing the crowd.properties File as an Environment Variable 4.1 Important Directories and Files 3.2 Adding an Application

4.2 Changing the Port that Crowd uses

This page last changed on Feb 27, 2008 by smaddox.

By default, Crowd is configured to use port 8095. If this port is already in use within your network, you will need to change the port that Crowd uses.

Follow these steps:

- 1. Edit the build.properties file, as described in 4.1 Important Directories and Files.
- Change the crowd.url property to the new port on which the <u>Crowd Administration Console</u> will be accessed.
- Change the demo.url property to the new port on which the <u>Crowd 'demo' application</u> will be accessed.
- 4. Change the openidserver.url property to the new port on which the <u>CrowdID Server</u> will be accessed.
- 5. Run the build.xml script, as described in 4.1 Important Directories and Files.

RELATED TOPICS

- 1. System Requirements
 - 1.1 Setting JAVA_HOME
- 2. Installing Crowd and CrowdID
 - 2.1 Connecting Crowd to a Database
 - 2.1.1 HSQLDB
 - 2.1.2 MS SQL Server
 - 2.1.3 MySQL
 - 2.1.4 Oracle
 - 2.1.5 PostgreSQL
 - 2.2 Connecting CrowdID to a Database
 - 2.2.1 HSQLDB
 - 2.2.2 MS SQL Server
 - 2.2.3 MySQL
 - 2.2.4 Oracle
 - 2.2.5 PostgreSQL
 - 2.3 Installing Crowd and CrowdID WAR Distribution
 - 2.3.1 Installing Crowd WAR Distribution
 - Configuring Crowd & CrowdID on Tomcat 5.5.x
 - Installing Crowd WAR on JBoss
 - 2.3.2 Installing CrowdID WAR Distribution
 - Specifying your Crowd Home Directory
- 3. Running the Setup Wizard
 - 3.1 Troubleshooting your Configuration on Setup
- 4. Configuring Crowd
 - 4.1 Important Directories and Files
 - The crowd.properties File
 - 4.2 Changing the Port that Crowd uses
- 5. Installing Crowd as a Windows Service
 - 5.1 Specifying Startup Order of Windows Services
 - 5.2 Changing the User for the Crowd Windows Service
 - 5.3 Removing the Crowd Windows Service
 - 5.4 Troubleshooting Crowd as a Windows Service

5. Installing Crowd as a Windows Service

This page last changed on Oct 09, 2007 by smaddox.

For long-term use, you should configure Crowd to restart automatically when the operating system restarts. For Windows servers, this means configuring Crowd to run as a Windows service.

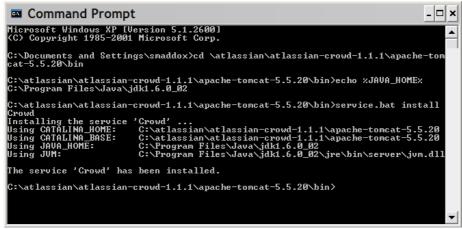
Running Crowd as a Windows service has other advantages. When Crowd is started manually, a console window opens - there is a risk that someone may accidentally shut down Crowd by closing the window. Also, the Crowd logs are properly managed by the Windows service (reliably found in \atlassian-crowd.log in the root Crowd directory, and rotated by file size).

Installing Crowd as a Windows Service

- 1. Open a DOS prompt.
- 2. 'cd' to your Crowd directory, and then the Tomcat bin subdirectory, e.g. {CROWD_INSTALL}\apachetomcat-5.5.20\bin
- 3. If a directory in the path has spaces (e.g. C:\Program Files\..), please convert it to its eight-character equivalent (e.g. c:\Progra~1\..).
- 4. Ensure the <u>JAVA_HOME</u> variable is set to the JDK base directory. Use echo %JAVA_HOME% to confirm this.
- 5. Run the following command:

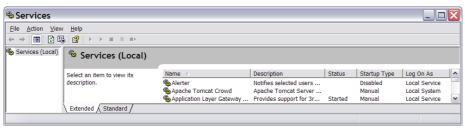
```
service.bat install Crowd
```

Screenshot: Installing Crowd as a Windows Service



Crowd should now have been installed as a service, and will be visible in the Windows Services console.

Screenshot: Windows Services Console



6. Run the following command, to have the Crowd service start automatically when the server starts:

tomcat5 //US//Crowd --Startup auto

The Crowd service will automatically start up the next time the server reboots.



- You can manually start the Crowd service with the command net start Crowd, and stop it with net stop Crowd.
- To see what parameters the Crowd service is starting with, go to Start -> Run and run regedt32.exe. There should be an entry at HKEY_LOCAL_MACHINE -> SOFTWARE -> Apache Software Foundation -> Procrun 2.0 -> Crowd.

Additional Crowd Setup Options (Optional)

To increase the maximum memory Crowd can use (the default will already be 256MB), run:

```
tomcat5 //US//Crowd --JvmMx 512
```

 If you are running Crowd with JIRA and/or Confluence in the same JVM, increase the MaxPermSize to 512 MB:

```
tomcat5 //US//Crowd ++JvmOptions="-XX:MaxPermSize=512m"
```

- Occasionally, it may be useful to view Crowd's Garbage Collection information. This is especially true when investigating memory issues.
 - To turn on the Verbose GC (garbage collection) logging, execute the following command in the command prompt

```
tomcat5 //US//Crowd ++JvmOptions="-Xloggc:path\to\logs\atlassian-gc.log"
```

• The path (denoted by \path\to) refers to the directory in which Crowd is currently installed. For example:

```
tomcat5 //US//Crowd ++JvmOptions="-Xloggc:c:\crowdinstall\logs\atlassian-gc.log"
```

- If you are using HSQL as your database server: after installing Crowd as a Windows service, you will need to copy your database files.
 - 1. Create a folder called c:\windows\system32\database
 - 2. Copy over the database files from your atlassian-crowd-1.1.2/database.

Let We recommend strongly that you use an external database server rather than the HSQL database supplied with Crowd for evaluation purposes.

Refer to the <u>Tomcat documentation</u> for further service options.

Related Topics

• 5.1 Specifying Startup Order of Windows Services

- 5.2 Changing the User for the Crowd Windows Service
 5.3 Removing the Crowd Windows Service
 5.4 Troubleshooting Crowd as a Windows Service

5.1 Specifying Startup Order of Windows Services

This page last changed on Aug 28, 2007 by smaddox.

This page is relevant if you have installed Crowd as a Windows service.

If you have multiple Windows services that depend on each other, it is important that they are started in the correct order. For example, if you are running both <u>JIRA</u> and Crowd, it is important to start Crowd first, so that Crowd is running before people try to login to JIRA.

For information about specifying the startup order for multiple services, please refer to http://support.microsoft.com/kb/193888.

- 5.1 Specifying Startup Order of Windows Services
- 5.2 Changing the User for the Crowd Windows Service
- 5.3 Removing the Crowd Windows Service
- 5.4 Troubleshooting Crowd as a Windows Service
- 5. Installing Crowd as a Windows Service

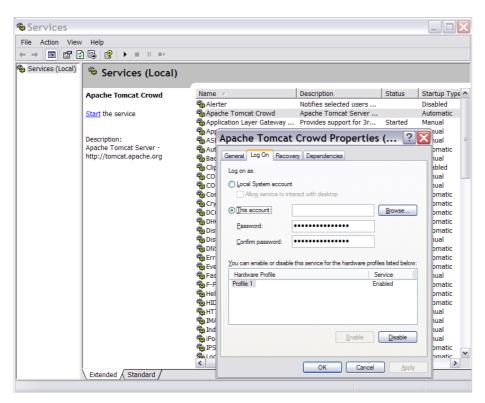
5.2 Changing the User for the Crowd Windows Service

This page last changed on Aug 28, 2007 by smaddox.

This page is relevant if you have <u>installed Crowd as a Windows service</u>. You may want to change the user under which the Crowd Windows service is running, for security reasons.

Changing the Windows User for the Crowd Service

- 1. Navigate to the service: Control Panel -> Administrative Tools -> Services.
- 2. Locate the 'Apache Tomcat Crowd' service, right-click and view the 'Properties'.
- 3. Go to the 'Log On' tab and change the user as desired. Screenshot: Changing the User for the Windows Service



- 5.1 Specifying Startup Order of Windows Services
- 5.2 Changing the User for the Crowd Windows Service
- 5.3 Removing the Crowd Windows Service
- 5.4 Troubleshooting Crowd as a Windows Service
- 5. Installing Crowd as a Windows Service

5.3 Removing the Crowd Windows Service

This page last changed on Aug 28, 2007 by smaddox.

This page is relevant if you have installed Crowd as a Windows service

To remove the Crowd Windows service:

- 1. Open a DOS prompt.
- 2. 'cd' to your Crowd directory, and then the Tomcat bin subdirectory, e.g. {CROWD_INSTALL}\apachetomcat-5.5.20\bin
- 3. Run one of the following commands:
 - Either:

service.bat remove Crowd

· Or if the above does not work, use

tomcat5 //DS//Crowd

Related Topics

- 5.1 Specifying Startup Order of Windows Services
- 5.2 Changing the User for the Crowd Windows Service
- 5.3 Removing the Crowd Windows Service
- 5.4 Troubleshooting Crowd as a Windows Service
- 5. Installing Crowd as a Windows Service

5.4 Troubleshooting Crowd as a Windows Service

This page last changed on Aug 28, 2007 by smaddox.

This page is relevant if you have installed Crowd as a Windows service.

Problems may occur when trying to set up Crowd to run as a Windows service with JDK 1.6. The problem is caused by a failure to locate MSVCR71.DLL, which can be found in your %JAVA_HOME%/bin. There are two options to resolve this problem:

- Add %JAVA_HOME/bin to PATH, then restart the server.
- Or copy MSVCR71.DLL to system path: either C:\WINDOWS\SYSTEM32 or C:\WINNT\SYSTEM32

Related Topics

- 5.1 Specifying Startup Order of Windows Services
- 5.2 Changing the User for the Crowd Windows Service
- 5.3 Removing the Crowd Windows Service
- 5.4 Troubleshooting Crowd as a Windows Service
- 5. Installing Crowd as a Windows Service

Upgrading Crowd

This page last changed on Feb 18, 2008 by smaddox.

Below are instructions on upgrading an existing Crowd installation to the latest version of Crowd.

Read the Release Notes and Upgrade Notes

Please read:

- The Release Notes for the version you are upgrading to, and
- The Upgrade Notes for any versions you are skipping as well as the version you are upgrading to:
 - Crowd 1.3 Beta Upgrade Notes
 - Crowd 1.3 Upgrade Notes
 - Crowd 1.2 Upgrade Notes
 - Crowd 1.1 Upgrade Notes
 - Crowd 1.0 Upgrade Notes

Select the Instructions for your Crowd Version

From Crowd 1.3.0, the upgrade procedure becomes much simpler. For that reason, we provide two sets of instructions. Select a link below, depending on the version of your current Crowd installation:

- Upgrading from Crowd 1.3.0 or Later
- Upgrading from Crowd 1.2.x or Earlier

Troubleshooting

If you have any problems during upgrade, please raise a support request at https://support.atlassian.com/ and attach your atlassian-crowd.log file so that we can help you find out what's gone wrong.

RELATED TOPICS

- Crowd Release Notes
- Installing Crowd
- Upgrading Crowd

1. Upgrading from Crowd 1.3.0 or Later

This page last changed on Feb 27, 2008 by smaddox.

Follow the instructions below if both the following are true:

- Your current version of Crowd is Crowd 1.3.0 or later, and
- You want to upgrade to the latest version of Crowd.

If your current installation is earlier than Crowd 1.3.0, follow the instructions on <u>upgrading from Crowd 1.2.x or earlier</u>.

On this page:

- Step 1. Shut Down Crowd and All Integrated Applications
- Step 2. Back Up your Crowd Files
- Step 3. Re-Install Crowd
- Step 4. Update your Integrated Applications
- Step 5. Start Crowd

Step 1. Shut Down Crowd and All Integrated Applications

Shut down Crowd and all Crowd-connected applications.

Step 2. Back Up your Crowd Files

- 1. Make a <u>backup</u> of your <u>Crowd database</u> and your <u>CrowdID database</u>. We highly recommend this step, in case something goes wrong during the upgrade process and you need to restore your data from backup.
- 2. Make backup copies of the following files:
 - Your <u>Crowd Home directory</u> recommended in case something goes wrong during the upgrade process.
 - The <u>crowd.properties file</u> for the Crowd Administration Console application, located at {CROWD_INSTALL}\crowd-webapp\WEB-INF\classes\crowd.properties you will need to copy this file to your new Crowd installation.
 - The crowd.properties file for the CrowdID application, located at
 {CROWD_INSTALL}/crowd-openidserver-webapp/WEBINF/classes/crowd.properties you
 will need to copy this file to your new Crowd installation.
- 3. If you have <u>installed Crowd on a separate application server</u>, you need to back up your customised configuration files.
- 4. We recommend that you rename your existing {CROWD_INSTALL} directory, as legacy files may cause problems if you unzip the new Crowd installation into an existing directory.

Step 3. Re-Install Crowd

- 1. Download Crowd.
- 2. Unzip the download archive into a directory of your choice, taking note of the following:
 - Please check your unzip program before extracting the downloaded archive see the note on the <u>Crowd installation front page</u>.
 - Do not specify directory names that contain spaces.
 - We'll refer to this installation directory as {CROWD_INSTALL}.
 - Please make sure that your new {CROWD_INSTALL} directory has a different name from your old {CROWD_INSTALL} directory.
- 3. Point the new Crowd installation at your existing Crowd Home directory by editing the configuration file at {CROWD_INSTALL}\crowd-webapp\WEB-INF\classes\crowd-init.properties.

The Crowd Home directory is where Crowd will store its configuration information. If you are using the embedded HSQL database, supplied for evaluation purposes, Crowd will also store its database in this directory. To specify the directory:

- Open the crowd-init.properties file.
- Choose the appropriate line in the file, depending upon your operating system (see below).

- Remove the # at the beginning of the line.
- Enter the name of the directory you want Crowd to use as its Home directory. For example,
 - On Windows:

crowd.home=c:/data/crowd-home

Note: On Windows, make sure you use forward slashes as shown above, not backward slashes.

On Mac and Unix-based systems:

crowd.home=/var/crowd-home

• Save the crowd-init.properties file.



You must make sure you point the new Crowd installation at your existing Crowd Home directory so that the new Crowd can use your existing configuration.

- 4. Copy the following files, saved in Step 2 above, to your new Crowd installation:
 - Copy the crowd.properties file for the Crowd Administration Console to your new {CROWD_INSTALL}\crowd-webapp\WEB-INF\classes directory.
 - Copy the crowd.properties file for the CrowdID application to your new {CROWD_INSTALL}/ crowd-openidserver-webapp/WEBINF/classes directory.
 - If you have <u>installed Crowd on a separate application server</u>, copy your customised configuration files.

Step 4. Update your Integrated Applications

Copy the new {CROWD_INSTALL}\client\crowd-integration-client-X.X.X.jar file to each Crowd-integrated application's WEB-INF/lib folder, replacing the existing crowd-integration-client-X.X.X.jar file.

For details please see the configuration instructions for each application:

- 3.2.01 Integrating Crowd with Apache
- 3.2.02 Integrating Crowd with Subversion
- 3.2.03 Integrating Crowd with Atlassian Confluence
- 3.2.04 Integrating Crowd with Atlassian CrowdID
- 3.2.05 Integrating Crowd with Atlassian FishEye
- 3.2.06 Integrating Crowd with Atlassian JIRA
- 3.2.07 Integrating Crowd with Jive Forums
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application

If you have installed Crowd on a new server, or changed Crowd's URL or port number, you will also need to edit the <code>crowd.properties</code> file in each integrated application accordingly.

<u>If you are using CrowdID</u> with an external database, you will still need to use the manual JNDI datasource configuration method to <u>configure an external database connection</u>.

Step 5. Start Crowd

- 1. Run the start-up script, found in your {CROWD_INSTALL} directory:
 - start_crowd.bat for Windows.
 - start crowd.sh for Mac and Unix-based systems.

2. Point a web browser at $\frac{\text{http://localhost:8095/crowd}}{\text{Administration Console}}$. You should now be able to use the $\frac{\text{Crowd}}{\text{Administration Console}}$.

RELATED TOPICS

- Crowd Release Notes Installing Crowd Upgrading Crowd

2. Upgrading from Crowd 1.2.x or Earlier

This page last changed on Feb 27, 2008 by smaddox.

Follow the instructions below if both the following are true:

- Your current version of Crowd is Crowd 1.2.x or earlier, and
- You want to upgrade to the latest version of Crowd.

If your current installation is Crowd 1.3.0 or later, follow the instructions on <u>upgrading from Crowd 1.3.0</u> or later.

There are two options for upgrading your pre-1.3.0 installation:

- Allow the Crowd upgrade process to upgrade your existing Crowd database.
- · Or export your database to XML, then re-import it into your new Crowd installation.

Further details are given in the instructions below. Follow the steps and choose your preferred option when prompted.

On this page:

- · Step 1. Optional Export your Crowd Database to XML
- Step 2. Shut down Crowd and All Integrated Applications
- Step 3. Back Up your Crowd Files
- Step 4. Re-Install Crowd
- Step 5. Start Crowd and Run the Setup Wizard
- Step 6. Update your Integrated Applications

Step 1. Optional Export your Crowd Database to XML

You can choose to export your Crowd database to XML and then re-import it when upgrading. You might choose this option if you want to use a different database configuration in your new Crowd installation, such as when you are moving from the HSQLDB evaluation database to an external database.

If you choose this option, follow the instructions on backing up your Crowd database to an XML file.

Step 2. Shut down Crowd and All Integrated Applications

Shut down Crowd and all Crowd-connected applications.

Step 3. Back Up your Crowd Files

- 1. Make a backup of your <u>Crowd database</u> and your <u>CrowdID database</u>. We highly recommend this step, in case something goes wrong during the upgrade process and you need to restore your data from backup.
- 2. Make backup copies of the following files:
 - The <u>crowd.properties file</u> for the Crowd Administration Console application, located at {CROWD_INSTALL}\crowd-webapp\WEB-INF\classes\crowd.properties you will need to copy this file to your new Crowd installation.
 - The <u>crowd.properties file</u> for the CrowdID application, located at
 {CROWD_INSTALL}/crowd-openidserver-webapp/WEBINF/classes/crowd.properties you
 will need to copy this file to your new Crowd installation.
- 3. If you have <u>installed Crowd on a separate application server</u>, you need to back up your customised configuration files.
- 4. We recommend that you rename your existing {CROWD_INSTALL} directory, as legacy files may cause problems if you unzip the new Crowd installation into an existing directory.

Step 4. Re-Install Crowd

1. Download Crowd.

- 2. Unzip the download archive into a directory of your choice, taking note of the following:
 - Please check your unzip program before extracting the downloaded archive see the note on the Crowd installation front page.
 - Do not specify directory names that contain spaces.
 - We'll refer to this installation directory as {CROWD_INSTALL}.
 - Please make sure that your new {CROWD_INSTALL} directory has a different name from your old {CROWD_INSTALL} directory.
- 3. Specify a Crowd Home directory for your new Crowd installation, by editing the configuration file at {CROWD_INSTALL}\crowd-webapp\WEB-INF\classes\crowd-init.properties.

The Crowd Home directory is where Crowd will store its configuration information. If you are using the embedded HSQL database, supplied for evaluation purposes, Crowd will also store its database in this directory. To specify the directory:

- Open the crowd-init.properties file.
- Choose the appropriate line in the file, depending upon your operating system (see below).
- Remove the # at the beginning of the line.
- Enter the name of the directory you want Crowd to use as its Home directory. For example,
 - on Windows:

crowd.home=c:/data/crowd-home

Note: On Windows, make sure you use forward slashes as shown above, not backward slashes.

On Mac and Unix-based systems:

crowd.home=/var/crowd-home

- Save the crowd-init.properties file.
- 4. Copy the following files, saved in Step 3 above, to your new Crowd installation:
 - Copy the crowd.properties file for the Crowd Administration Console to your new {CROWD_INSTALL}\crowd-webapp\WEB-INF\classes directory.
 - Copy the crowd.properties file for the CrowdID application to your new {CROWD_INSTALL}/ crowd-openidserver-webapp/WEBINF/classes directory.
 - If you have <u>installed Crowd on a separate application server</u>, copy your customised configuration files.

Step 5. Start Crowd and Run the Setup Wizard

- 1. Run the start-up script, found in your {CROWD_INSTALL} directory:
 - start_crowd.bat for Windows.
 - start_crowd.sh for Mac and Unix-based systems.
- 2. Point a web browser at http://localhost:8095/crowd where you will see the Crowd Setup Wizard.
- 3. Enter your license key on the 'License' screen, as described in the instructions on the <u>Setup Wizard</u>.
- 4. When asked for your <u>Installation Type</u>, choose one of the following options:
 - 'Import data from an XML Backup' Choose this option if you want to import your Crowd data from an XML file which you exported in Step 1 <u>above</u>.
 - 'Upgrade the Database from Crowd Version 1.2.x or Earlier' Choose this option if you want the Crowd upgrade process to automatically upgrade your existing database.
- 5. The Setup Wizard will now ask you to configure your database.
 - If you want the upgrade process to update your existing Crowd database, supply the JNDI datasource or JDBC connection details of your existing database.
 - If you are planning to import your data from an XML backup, supply connection details to a new database or to your existing database.

Lif you decide to import directly into your existing database, please ensure that you have made a backup first.

- 6. If you have chosen to import from XML, the <u>Import Existing Crowd Data</u> screen will now appear. Enter the location of your XML backup file.
- 7. The Setup Wizard is now complete. You are now ready to log in to the <u>Crowd Administration Console</u>, using your administrator account from your existing Crowd installation.

Step 6. Update your Integrated Applications

From Crowd 1.3.0 onwards, there is just a single Crowd integration library. You will need to remove the legacy integration libraries. Perform the following steps in the web-inf/lib folder of each Crowd-integrated application:

- Copy the new {CROWD_INSTALL}\client\crowd-integration-client-X.X.X.jar file into the folder.
- 2. Remove the existing <code>crowd-core-X.X.X.jar</code> and <code>crowd-atlassian-user-X.X.X.jar</code> files from the folder.

For details please see the configuration instructions for each application:

- 3.2.01 Integrating Crowd with Apache
- 3.2.02 Integrating Crowd with Subversion
- 3.2.03 Integrating Crowd with Atlassian Confluence
- 3.2.04 Integrating Crowd with Atlassian CrowdID
- 3.2.05 Integrating Crowd with Atlassian FishEye
- 3.2.06 Integrating Crowd with Atlassian JIRA
- 3.2.07 Integrating Crowd with Jive Forums
- 3.2.08 Integrating Crowd with Atlassian Bamboo
- 3.2.09 Integrating Crowd with Acegi Security
- 3.2.10 Integrating Crowd with Atlassian Crucible
- 3.2.11 Integrating Crowd with a Custom Application

If you have installed Crowd on a new server, or changed Crowd's URL or port number, you will also need to edit the <code>crowd.properties</code> file in each integrated application accordingly.

Lif you are using <u>CrowdID</u> with an external database, you will still need to use the manual JNDI datasource configuration method to <u>configure an external database connection</u>.

RELATED TOPICS

- · Crowd Release Notes
- Installing Crowd
- · Upgrading Crowd

Upgrade Notes

This page last changed on Feb 18, 2008 by smaddox.

- Crowd 1.0 Upgrade Notes
 Crowd 1.1 Upgrade Notes
 Crowd 1.2 Upgrade Notes
 Crowd 1.3 Beta Upgrade Notes
 Crowd 1.3 Upgrade Notes

Crowd 1.0 Upgrade Notes

This page last changed on Feb 18, 2008 by smaddox.

- All LDAP configuration now need to have filters set
 If you are using PostgreSQL you need to change the column name attributevalues.attributevalueid to attributevalues.ATTRIBUTEVALUEID (make it uppercase).

Crowd 1.1 Upgrade Notes

This page last changed on Feb 18, 2008 by smaddox.

To upgrade to Crowd 1.1.x from 1.0.x or earlier,

- Follow the usual steps for upgrading crowd.
- Configure two additional web applications, as described below.

Configuring OpenID Server and OpenID Demo Client applications

In Crowd 1.1, two new web applications have been added to Crowd, along with the Crowd Administration Console and the Demo Application. The new applications are:

Application	Description
OpenID Server	Note: Logically, the OpenID Server is a client application of the Crowd Server, and must be configured as such. The OpenID Server requires a database. By default, a HSQL database is used.
OpenID Demo Client	A simple web application which can be used as a starting point to develop OpenID-enabled Java applications. This application is lightweight. It has no persistence store and does not talk to the Crowd Security Server.

Perform the following steps to finish the upgrade:

- 1. Create a database to house the data specific to the OpenID Server.
- 2. Point the application context to the new database. The application context for the OpenID Server is in atlassian-crowd-1.1.0/apache-tomcat-5.5.20/conf/catalina/localhost/openidserver.xml More information on how to modify this file for your particular database can be found in 2.2 Connecting CrowdID to a Database.
- 3. Update the atlassian-crowd-1.1.0/crowd-openidserver-webapp/WEB-INF/classes/jdbc.properties to reflect the dialect of your database.
- 4. Update atlassian-crowd-1.1.0/crowd-openidserver-webapp/WEB-INF/classes/crowd.properties to use a secure password for the OpenID Server application.
- 5. Add the application via the <u>Crowd Administration Console</u>. The default name of the application is crowd-openid-server and the password is whatever you specified in <u>crowd.properties</u> in the previous step. For more information on how to add an application, see <u>3.2 Adding an Application</u>.
- 6. Restart the server. This should set up the OpenID Server in Crowd.

Crowd 1.2 Upgrade Notes

This page last changed on Feb 18, 2008 by smaddox.

Upgrade Procedure

To upgrade to Crowd 1.2.x from 1.1.x or earlier,

• Follow the instructions on upgrading Crowd.

Upgrade Notes

Application Directory Permissions

With Crowd 1.2, directory permissions can now be set at <u>application level</u>. When you upgrade to Crowd 1.2:

- The upgrade procedure will set all application-level permissions equal to your existing directory-level permissions. This means that, for a particular directory, all applications will have the same permissions immediately after the upgrade i.e. the permissions which were set at directory level before the upgrade.
- You can alter the permissions for each application after the upgrade is complete, if you wish.

Developer Notes

SOAP Service API

There are changes to the <u>Crowd API</u>, including new SOAP methods (see <u>CWD-459</u> and <u>CWD-537</u>), so you should re-generate your WSDL bindings to the Crowd server.

Crowd 1.3 Beta Upgrade Notes

This page last changed on Feb 19, 2008 by smaddox.

Crowd 1.3 will be launched in early March 2008. A beta release is currently undergoing internal testing. These upgrade notes apply to Crowd 1.3 beta. We'll publish the final upgrade notes with the release of Crowd 1.3.0.

Upgrade Procedure

To upgrade to Crowd 1.3.x from 1.2.x or earlier, please follow these upgrade instructions.

Upgrade Notes

Database Configuration

Crowd database configuration is now part of the <u>Setup Wizard</u>. You can choose between a JNDI datasource (i.e. server-managed) or a JDBC configuration.

If you are using <u>CrowdID</u> with an external database, you will still need to use the manual JNDI datasource configuration method to <u>configure an external database connection</u>.

Database Import

You can now import an XML backup of your Crowd database when upgrading. So you don't have to go through the whole Setup Wizard again, nor do a manual backup and restore of your Crowd database files. Full instructions are in the <u>Upgrade Guide</u>.

Integrated Applications

Crowd's client libraries have been slimmed down to a single JAR file containing all required classes for a Crowd client. (See <u>CWD-767</u>.)

Before upgrading, please remove all previous client libraries (crowd-XXXX-X.X.x.jar) from each Crowd-integrated application's WEB-INF/lib folder.

Developer Notes

Restructuring of Crowd Client Library

In Crowd 1.3, the Java client library API has been upgraded. This affects applications using the Crowd Client libraries and connectors. Read more about the Client API Changes.

Spring Configuration Upgrade for Crowd Acegi Connector

Applications using the Crowd Acegi connector will need to upgrade their Spring configuration. Refer to the updated <u>documentation</u> for more information.

Crowd 1.3 Upgrade Notes

This page last changed on Mar 03, 2008 by smaddox.

On this page:

- <u>Upgrade Notes</u>
 - Database Configuration
 - Database Import
 - Integrated Applications
- <u>Developer Notes</u>
- Restructuring of Crowd Client Library
 - Spring Configuration Upgrade for Crowd Acegi Connector
- Upgrade Procedure

Upgrade Notes

Database Configuration

Crowd database configuration is now part of the <u>Setup Wizard</u>. You can choose between a JNDI datasource (i.e. server-managed) or a JDBC configuration.

Lif you are using <u>CrowdID</u> with an external database, you will still need to use the manual JNDI datasource configuration method to <u>configure an external database connection</u>.

Database Import

You can now import an XML backup of your Crowd database when upgrading. So you don't have to go through the whole Setup Wizard again, nor do a manual backup and restore of your Crowd database files. Full instructions are in the Upgrade Guide.

Integrated Applications

Crowd's client libraries have been slimmed down to a single JAR file containing all required classes for a Crowd client. (See <u>CWD-767</u>.)

Before upgrading, please remove all previous client libraries (crowd-XXXX-X.X.jar) from each Crowd-integrated application's WEB-INF/lib folder.

Developer Notes

Restructuring of Crowd Client Library

In Crowd 1.3, the Java client library API has been upgraded. This affects applications using the Crowd Client libraries and connectors. Read more about the <u>Client API Changes</u>.

Spring Configuration Upgrade for Crowd Acegi Connector

Applications using the Crowd Acegi connector will need to upgrade their Spring configuration. Refer to the updated <u>documentation</u> for more information.

Upgrade Procedure

To upgrade to Crowd 1.3.x from 1.2.x or earlier, please follow these upgrade instructions.

Crowd Knowledge Base

This page last changed on Feb 17, 2008 by smaddox.

General FAQ on the Atlassian Website

Concepts:

- What is single sign-on (SSO)?
- What is authorisation?
- · What is authentication?
- · What is centralised authentication?
- What is identity management?
- What is a directory?

Technical:

- How does Crowd work? How is Crowd an "application security framework"?
- What is an application connector?
- What is a directory connector?
- · How many users can Crowd manage?
- · How many applications can be used with Crowd?
- We already have an LDAP server for Confluence and/or JIRA. Do we really need Crowd?

Compatibility:

- · What are Crowd's system requirements?
- What directories and applications does Crowd support out-of-the-box?
- How can Crowd be connected to new or currently unsupported applications?
- · How does Crowd integrate with other Atlassian products?
- Does Crowd include kerberos integration?
- Does Crowd support SAML or Liberty Alliance?

Deployment FAQ

- Finding your Crowd Home Directory
- Recovering your Console application password
- · Resetting the Domain Cookie Value
- Restarting the Setup Wizard from Scratch
- Self Signed Certificate

Integration FAQ

- All Integrations
 - · If I delete a user from Crowd, how will this affect integrated applications?
 - Passing the crowd.properties File as an Environment Variable
- Atlassian Product Integration
 - Application Caching
 - JIRA integration
 - Public Signup Setup
- IBM Websphere Integration

More General FAQ

· Principals and Users

Troubleshooting

• Troubleshooting SSO with Crowd

RELATED TOPICS

• Troubleshooting your Configuration on Setup

Deployment FAQ

This page last changed on Mar 11, 2007 by rosie@atlassian.com.

- Finding your Crowd Home Directory
 Recovering your Console application password
 Resetting the Domain Cookie Value
 Restarting the Setup Wizard from Scratch
 Self Signed Certificate

Finding your Crowd Home Directory

This page last changed on Feb 19, 2008 by smaddox.

The Crowd Home directory is where Crowd stores its configuration information. If you are using the embedded HSQLDB database supplied for evaluation purposes, Crowd will also store its database in this directory.

Crowd's **System Information** screen shows the location of your Crowd Home directory.

Read more about:

- Setting your Home Directory during installation.
- The location and function of the Crowd Home directory and other important files and directories.

Recovering your Console application password

This page last changed on Oct 10, 2007 by smaddox.

The Crowd console itself must authenticate to the <u>Crowd framework</u> to perform authentication and authorisation calls.

Like an integrated application, if you have an improper password in the <code>crowd.properties</code> configuration file, the following exception will be thrown when the application attempts to connect to Crowd SOAP services:

```
Caused by: com.atlassian.crowd.integration.exception.InvalidAuthenticationException: Invalid
application client.
        at sun.reflect.NativeConstructorAccessorImpl.newInstanceO(Native Method)
        at
 \verb|sun.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:39)| \\
 \verb|sun.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java: 27)| \\
        at java.lang.reflect.Constructor.newInstance(Constructor.java:494)
        at org.codehaus.xfire.aegis.type.basic.BeanType.createFromFault(BeanType.java:235)
        at org.codehaus.xfire.aegis.type.basic.BeanType.readObject(BeanType.java:105)
org.codehaus.xfire.aegis.AegisBindingProvider.readParameter(AegisBindingProvider.java:169)
 org.codehaus.xfire.client.ClientFaultConverter.processFaultDetail(ClientFaultConverter.java:51)
        at org.codehaus.xfire.client.ClientFaultConverter.invoke(ClientFaultConverter.java:32)
        at org.codehaus.xfire.handler.HandlerPipeline.invoke(HandlerPipeline.java:131)
        at org.codehaus.xfire.client.Client.onReceive(Client.java:424)
        at org.codehaus.xfire.transport.http.HttpChannel.sendViaClient(HttpChannel.java:139)
        at org.codehaus.xfire.transport.http.HttpChannel.send(HttpChannel.java:48)
        at org.codehaus.xfire.handler.OutMessageSender.invoke(OutMessageSender.java:26)
        at org.codehaus.xfire.handler.HandlerPipeline.invoke(HandlerPipeline.java:131)
        at org.codehaus.xfire.client.Invocation.invoke(Invocation.java:79)
        at org.codehaus.xfire.client.Invocation.invoke(Invocation.java:114)
        at org.codehaus.xfire.client.Client.invoke(Client.java:336)
        at org.codehaus.xfire.client.XFireProxy.handleRequest(XFireProxy.java:77)
        at org.codehaus.xfire.client.XFireProxy.invoke(XFireProxy.java:57)
        at $Proxy8.authenticateApplication(Unknown Source)
 com.atlassian.crowd.integration.service.soap.client.GenericClient.authenticate(GenericClient.java:263)
        ... 73 more
Caused by: org.codehaus.xfire.fault.XFireFault: Invalid application client.
org.codehaus.xfire.fault.Soap11FaultSerializer.readMessage(Soap11FaultSerializer.java:31)
        at org.codehaus.xfire.fault.SoapFaultSerializer.readMessage(SoapFaultSerializer.java:28)
org.codehaus.xfire.soap.handler.ReadHeadersHandler.checkForFault(ReadHeadersHandler.java:111)
        at org.codehaus.xfire.soap.handler.ReadHeadersHandler.invoke(ReadHeadersHandler.java:67)
        at org.codehaus.xfire.handler.HandlerPipeline.invoke(HandlerPipeline.java:131)
        at org.codehaus.xfire.client.Client.onReceive(Client.java:406)
```

If the password for the Crowd console is lost, the only method of recovery is to reset the password in the crowd.properties configuration file to a known application password. To do this you will need to have access to the Crowd database server and run the following commands:

1. Get a list of the applications integrated with Crowd:

+----+

2. Choose an application for which you have the password, and where you're happy to use the same password for the Crowd application. Let's call your application 'X'. Use application X's ID to query the database and retrieve X's credentials:

3. Now query the database for the ID of the Crowd application and set Crowd's application credentials to the credential of your application X:

```
mysql> update applicationcredentials set credential = 'sQnzu7wkTrgkQZF
+0Glhi5AI3Qmzvv0bXgc5THBqi7mAsdd4Xll27ASbRt9fEyavWi6m0QP9B8lThf+rDKy8hg==' where applicationid
= 98305;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
```

- 4. Update your atlassian-crowd-1.1.2/crowd-webapp/WEB-INF/classes/crowd.properties application.password value to the value of X's password.
- 5. You may now start Crowd.

Further information

- If you have installed only Crowd and no other integrated applications, you'll need to clear all the database tables (if you've already hooked up to a database server) and re-install Crowd. This should not cause you to lose much data, since no other applications have yet been defined.
- The issue is that the password for the crowd application is being changed during the setup process for crowd. This problem will be resolved with Crowd 1.2 see CWD-488.
- You may be tempted to try changing the password back to 'password'. Alas, this won't work, because the passwords are encrypted using SHA1.

Resetting the Domain Cookie Value

This page last changed on Oct 09, 2007 by smaddox.

To reset the SSO (single sign-on) cookie domain, run the following SQL command on the Crowd database:

```
update serverproperty set value = '' where name = 7;
```

Once you have done this you will need to restart Crowd and then log in. This will reset any domain SSO token misconfiguration.

Restarting the Setup Wizard from Scratch

This page last changed on Feb 13, 2008 by smaddox.

If you get part-way through the <u>Crowd Setup Wizard</u> and then decide you want to start again from scratch, you can delete the Crowd Home directory. (See <u>Important Directories and Files</u>.)

Crowd uses the crowd.cfg.xml file, stored in the Crowd Home directory, to 'remember' the step you have reached in the setup procedure. Clearing the file will cause the Setup Wizard to start at the beginning again.

This strategy is useful if you want to re-do your setup without having to download Crowd again.

To restart the Crowd Setup Wizard:

- 1. Shut down Crowd.
- 2. Delete your Crowd Home directory.
- 3. Start Crowd again.
- 4. Go go http://localhost:8095/crowd.
- 5. The Crowd Setup Wizard will start. Follow the steps from the beginning, as described in <u>3. Running the Setup Wizard</u>.



Embedded database will disappear too

If you are using the <u>embedded database</u>, the database files are stored in the Crowd Home directory too. Deleting the Crowd Home directory will remove all your Crowd Administration Console data as well (users, groups, roles, directories, applications and other configuration data).

Self Signed Certificate

This page last changed on Nov 30, 2006 by justen.stepka@atlassian.com.

I have a self Signed Certificate

You will need to add the self-signed certificate to your JDK truststore using the JDK keytool: $\frac{http://}{java.sun.com/j2se/1.3/docs/tooldocs/win32/keytool.html}$

Integration FAQ

This page last changed on Sep 17, 2007 by smaddox.

- All Integrations
 - If I delete a user from Crowd, how will this affect integrated applications?
 Passing the crowd.properties File as an Environment Variable
- Atlassian Product Integration
 - Application Caching
 - JIRA integration
- Public Signup Setup
 IBM Websphere Integration

All Integrations

This page last changed on Oct 02, 2007 by smaddox.

- If I delete a user from Crowd, how will this affect integrated applications?
 Passing the crowd.properties File as an Environment Variable

If I delete a user from Crowd, how will this affect integrated applications?

This page last changed on Feb 17, 2008 by smaddox.

We recommend that you deactivate a user rather than deleting them, in case some applications contain historical data, e.g. documents that the user has created.

For example, a user may be a participant in a <u>JIRA</u> issue. If you remove the user from the directory managed by Crowd, JIRA will not be able to find the user details when referencing the issue. If you do need to remove the user from Crowd, you must first remove the user's involvement in any JIRA issues, as described in the <u>JIRA documentation</u>.

Read more about <u>deleting or deactivating users</u> in Crowd.

Passing the crowd.properties File as an Environment Variable

This page last changed on Feb 28, 2008 by smaddox.

When <u>integrating a client application</u> with Crowd, you need a <u>crowd.properties</u> file containing configuration details for that application. (See <u>4.1 Important Directories and Files.</u>)

You can pass the location of a client application's <code>crowd.properties</code> file to the client application as an environment variable when starting the client application. This means that you can choose a suitable location for the <code>crowd.properties</code> file, instead of putting it in the client application's <code>WEB-INF/classes</code> directory.

This applies to the Crowd Administration Console's <code>crowd.properties</code> file too. You may find this particularly useful when integrating with a WAR deployment of an integrated application.

Example:

-Dcrowd.properties={FILE-PATH}/crowd.properties

Atlassian Product Integration

This page last changed on Feb 17, 2008 by smaddox.

This section covers general questions around Crowd's integration with other Atlassian products.

General Integration Questions

Why don't my Groups and Users show up in Bamboo, Confluence, Fisheye or JIRA?

I want to allow public signups, but don't what 'public' users in my company LDAP repository. How should I configure Crowd?

Confluence Integration

JIRA Integration

What is the difference between JIRA's direct LDAP integration & Crowd's JIRA integration? If I delete a user from Crowd, how will this affect JIRA?

Bamboo Integration

Fisheye Integration

Application Caching

This page last changed on Feb 05, 2008 by smaddox.

When Crowd is deployed into Bamboo, Confluence, Fisheye or JIRA, the Crowd client may be using caching. If you notice that changes made in Crowd do not appear in one of Crowd's configured applications, this will most likely mean that the changes have not yet propagated into the client caches.

For more information, refer to:

- <u>Caching</u> information on turning the cache on or off on the Crowd server.
 <u>Configuring Caching for an Application</u> information on fine tuning the caching properties of the client application.

JIRA integration

This page last changed on Nov 26, 2007 by smaddox.

What is the difference between JIRA's LDAP integration and Crowd's JIRA integration?

<u>JIRA's LDAP integration</u> only delegates authentication to LDAP. This means that you still need to create groups and users in JIRA, and those users must have usernames that match your users in LDAP.

When you use <u>Crowd's JIRA integration</u>, all user and group management is delegated to Crowd. This means that you no longer have to create users and groups in JIRA. Crowd gives you access to all these users and groups in your underlying LDAP directories.

Public Signup Setup

This page last changed on Sep 17, 2007 by smaddox.

This tip applies if you:

- · Have public-facing JIRA, Confluence and Bamboo servers and private LDAP repositories.
- Allow public signup via JIRA, Confluence and/or Bamboo.
- Want to partition where users are created via the public signup functionality.

Crowd allows for multiple directories to be assigned to an application. Follow these steps to direct all public signups into your chosen Crowd directory:

- 1. Define two directories:
 - a. An internal directory for 'public' users.
 - b. An LDAP directory for staff and contractors.
- 2. Assign both these directories to the 'JIRA' application in Crowd.
- 3. Use the 'ordering' arrows to move the internal 'public' directory into the first position.

Using this configuration, when Crowd receives a request from JIRA to create a user, Crowd will create the user in the 'public' internal directory only.

In future releases of Crowd, this functionality will be refined so that directory permissions can be set for each application. You will then be able to nominate the directories where users are created on a per-application basis.

IBM Websphere Integration

This page last changed on Sep 11, 2007 by justin.

If your client application is running in Websphere, there is a known problem with Websphere's XML libraries.

Crowd uses XFire to handle the requests between the client application (JIRA, Confluence, Bamboo etc.) and Crowd, XFire requires a newer version of an XML library than what is shipped with Websphere 5.1.

More information and a link to a newer version of the relevant JAR file is available on the XFire website

You will need to add the qname.jar file to the $WebSphere \AppServer \lib$ directory and remove the old file.

Some users have also reported errors like the following:

```
java.lang.VerifyError:
(class: org/codehaus/xfire/aegis/type/basic/ObjectType, method: writeSchema signature:
(Lorg/jdom/Element;)V) Incompatible argument to method
```

This is related to the following XFire issue the suggested fix for this is to upgrade the version of JDOM that is shipped with Websphere to something greater than 1.0 (Websphere ships with JDOM Beta 6).

If you add a later version of $\underline{\mathtt{DOM}}$ to the $\mathtt{WebSphere} \setminus \mathtt{AppServer} \setminus \mathtt{lib}$ directory and remove the old version, this should fix the above problem.

More General FAQ

This page last changed on Feb 13, 2008 by smaddox.

• Principals and Users

Principals and Users

This page last changed on Feb 13, 2008 by smaddox.

As far as Crowd is concerned, the terms 'principals' and 'users' are equivalent — they mean the same thing. Earlier versions of Crowd used the term 'principals'. From Crowd 1.3 onwards, we call them 'users'.

Troubleshooting

This page last changed on Feb 17, 2008 by smaddox.

- Troubleshooting SSO with Crowd
- Troubleshooting your Configuration on Setup

Troubleshooting SSO with Crowd

This page last changed on Feb 12, 2008 by donna@atlassian.com.

1. Confirm that you can log into each application with the same username and password.

Applications -> Click View next to the application -> Config Test

2. Ensure each Atlassian application's WEB-INF/classes/seraph-config.xml file is using the original authenticator class instead of the com.atlassian.crowd authenticator class. For example in JIRA:

<authenticator class="com.atlassian.crowd.integration.seraph.JIRAAuthenticator"/>

should revert to

<authenticator class="com.atlassian.seraph.auth.DefaultAuthenticator"/>

- 3. Once each application is using centralized authentication instead of SSO, confirm you can log in to each application with the same username and password.
- 4. Ensure that each application is using the same sub-domain. For example:
 - JIRA -> jira.example.com
 - Confluence -> confluence.example.com
 - Crowd -> crowd.example.com

SSO will only work with applications on the same sub-domain. Why? Crowd uses a cookie to manage SSO and your browser only has access to cookies in the same sub domain, (e.g. *.example.com).

This is the value that you set in the Domain property (e.g. .example.com) for Crowd to enable SSO, this is covered in the following documentation:

http://confluence.atlassian.com/display/CROWD/5.2.3+Domain

Still having trouble?

- 1. Change com.atlassian.crowd=INFO to com.atlassian.crowd=DEBUG in the <CROWD APP DIRECTORY>/ crowd-webapp/WEB-INF/classes/log4j.properties file.
- 2. Remove the existing <CROWD APP DIRECTORY>/atlassian-crowd.log file.
- 3. Restart Crowd and attempt to login again.
- 4. Attach the new <CROWD APP DIRECTORY>/atlassian-crowd.log to a Crowd support issue at http://support.atlassian.com.

CrowdID Administration Guide

This page last changed on Feb 19, 2008 by smaddox.

CrowdID is a free add-on that ships with Crowd versions 1.1 and later. It gives administrators a secure way to provide OpenID accounts for their users.

The CrowdID Administration Guide is for people who have <u>CrowdID administration rights</u>. For instructions on using CrowdID to access OpenID-enabled websites, please see the <u>CrowdID User Guide</u>.

Table of Contents

- 1. About CrowdID
 - 1.1 How CrowdID works with Crowd
 - 1.1.1 Determining the name of the CrowdID application
 - 1.1.2 Locating the Crowd Server that CrowdID is using
 - 1.1 How OpenID sites interact with CrowdID
- 2. Allowing users to access CrowdID
 - 2.1 Granting CrowdID access rights to a user
 - 2.2 Granting CrowdID Administration Rights to a User
- 3. Specifying the sites to which users can login
 - 3.1 Allowing all hosts
 - 3.2 Allowing all except specified hosts ('Blacklist')
 - 3.3 Allowing specified hosts only ('Whitelist')
- 4. Configuring CrowdID system settings
 - 4.1 Specifying the CrowdID URL
 - 4.2 Enabling localhost authentication
 - 4.3 Enabling immediate authentication requests
 - 4.4 Enabling communication with stateless clients

1. About CrowdID

This page last changed on Jun 19, 2007 by rosie@atlassian.com.

{*}CrowdID* is a free add-on that ships with Crowd versions 1.1 and later. It gives administrators a secure way to provide [OpenID|http://openid.net/] accounts for their users.

Crowd is a middleware application that connects web applications (such as CrowdID, JIRA and Confluence) to specified directories (e.g. Microsoft Active Directory, OpenLDAP). For details please see 1.1 Concepts in the Crowd Administration Guide.

- 1.1 How CrowdID works with Crowd
 - 1.1.1 Determining the name of the CrowdID application
 1.1.2 Locating the Crowd Server that CrowdID is using
- 1.1 How OpenID sites interact with CrowdID

To access CrowdID, go to http://localhost:8095/openidserver.

1.1 How CrowdID works with Crowd

This page last changed on Aug 14, 2007 by rosie@atlassian.com.

CrowdID is a free add-on that ships with Crowd versions 1.1 and later. It gives administrators a secure way to provide OpenID accounts for their users.

Crowd is a middleware application that connects web applications (such as CrowdID, JIRA and Confluence) to specified directories (e.g. Microsoft Active Directory, OpenLDAP). For details please see 1.1 Concepts in the Crowd Administration Guide.

This means that:

- CrowdID is a Crowd-connected application.
- CrowdID users are authenticated against Crowd-connected directories.
- If a user has already logged into any other Crowd-connected application (and single sign-on is enabled), they will not be prompted for any further login once they have entered their OpenID URL at an OpenID-enabled website.
- Multiple CrowdID instances can use one Crowd instance. Large organisations often find this useful.

CrowdID is automatically installed when you install Crowd. When you start Crowd for the first time and run the <u>Setup Wizard</u>, you will be offered the option of configuring CrowdID. If you choose not to setup CrowdID at that time, you can always set it up later as described in <u>4. Configuring CrowdID system settings</u>. Note that you will also need to define the CrowdID application in Crowd, and map it to an appropriate directory — for details please see the <u>Crowd Administration Guide</u>.

To access CrowdID, go to http://localhost:8095/openidserver.

RELATED TOPICS

- 1.1 How CrowdID works with Crowd
 - 1.1.1 Determining the name of the CrowdID application
 - 1.1.2 Locating the Crowd Server that CrowdID is using
- 1.1 How OpenID sites interact with CrowdID

1.1.1 Determining the name of the CrowdID application

This page last changed on Jun 19, 2007 by rosie@atlassian.com.

CrowdID is a Crowd-connected application (for more information please see <u>3. Managing Applications</u> in the <u>Crowd Administration Guide</u>).

To change the details or users of your CrowdID application within Crowd, you will need to know the name by which your Crowd application is defined in your Crowd server.

To see the name of your CrowdID application,

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'Crowd Server' link in the left navigation column.
- 4. This will display the 'Crowd Server' details. The 'Application Name' field contains the name by which your CrowdID application is known to your Crowd server.

Screenshot: 'Application Name'



RELATED TOPICS

- 1.1 How CrowdID works with Crowd
 - 1.1.1 Determining the name of the CrowdID application
 - 1.1.2 Locating the Crowd Server that CrowdID is using
- 1.1 How OpenID sites interact with CrowdID

1.1.2 Locating the Crowd Server that CrowdID is using

This page last changed on Jun 15, 2007 by rosie@atlassian.com.

To change the details or users of your CrowdID application within Crowd, you will need to login to your Crowd server.

To determine the location of your Crowd server,

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'Crowd Server' link in the left navigation column.
- 4. This will display the 'Crowd Server' details. The 'Crowd Services' field contains the URL of your Crowd server. Go to this URL to login to Crowd.

Screenshot: 'Crowd Server'



RELATED TOPICS

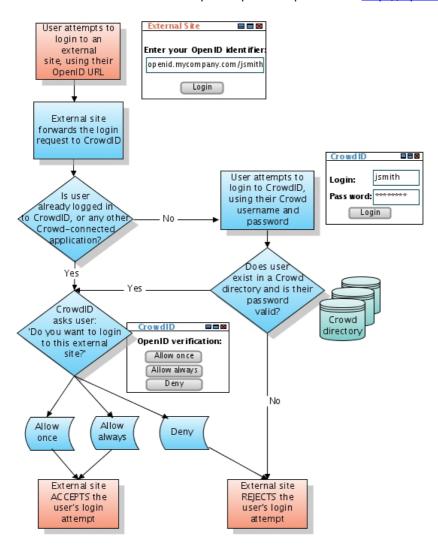
- 1.1 How CrowdID works with Crowd
 - 1.1.1 Determining the name of the CrowdID application
 - 1.1.2 Locating the Crowd Server that CrowdID is using
- 1.1 How OpenID sites interact with CrowdID

1.1 How OpenID sites interact with CrowdID

This page last changed on Jun 19, 2007 by rosie@atlassian.com.

This diagram shows how an OpenID-enabled website (known as a 'Relying Party') interacts with CrowdID (an 'OpenID Provider') to validate an end-user's login attempt.

For more information about the OpenID protocol please see http://openid.net.



RELATED TOPICS

- 1.1 How CrowdID works with Crowd
 - 1.1.1 Determining the name of the CrowdID application
 - 1.1.2 Locating the Crowd Server that CrowdID is using
- 1.1 How OpenID sites interact with CrowdID

2. Allowing users to access CrowdID

This page last changed on Feb 19, 2008 by smaddox.

Granting access to CrowdID is done through Crowd. You can grant people rights to:

- <u>use CrowdID</u> Granting CrowdID access rights to a user allows them to use CrowdID to access OpenID websites and perform all the actions described in the <u>CrowdID User Guide</u>.
- administer CrowdID Granting administration rights to a user allows them to use the 'Administration' menu within CrowdID, which enables them to perform the actions described in the <u>CrowdID Administration Guide</u>.

2.1 Granting CrowdID access rights to a user

This page last changed on Feb 14, 2008 by smaddox.

Granting CrowdID access rights to a user allows them to use CrowdID to access OpenID websites and perform all the actions described in the CrowdID User Guide.

Access to CrowdID is managed via Crowd. A user can only access CrowdID if they belong to a directory that is mapped to the CrowdID application within Crowd.

To grant CrowdID access rights to a particular user,

- 1. Login to your Crowd server¹.
- 2. View your CrowdID application² as described in <u>3.1 Using the Application Browser</u> in the <u>Crowd Administration Guide</u>.
- 3. Click the 'Directories' tab to see a list of directories that are mapped to your CrowdID application. You will need to add the user to one of these directories.
- 4. If your directory capabilities permit, add the user to the directory via Crowd as described in 4.02

 Adding a User in the Crowd Administration Guide. (Otherwise you may need to use your specific directory-management tool, instead of Crowd, to add the user to the directory.)

To grant CrowdID access rights to all the users in a particular directory,

- 1. Login to your Crowd server1.
- 2. Map the directory to your CrowdID application² as described in <u>3.3 Mapping a Directory to an Application</u> in the <u>Crowd Administration Guide</u>.

To grant CrowdID access rights to a particular group of users within a directory,

- 1. Login to your Crowd server1.
- 2. Map the group to your CrowdID application² as described in <u>3.4 Specifying which Groups can access an Application</u> in the <u>Crowd Administration Guide</u>.
- ¹ To find your Crowd server's URL, see 1.1.2 Locating the Crowd Server that CrowdID is using.
- ² To identify the name by which your CrowdID application is known within Crowd, see <u>1.1.1 Determining</u> the name of the CrowdID application.

RELATED TOPICS

- 2.1 Granting CrowdID access rights to a user
- 2.2 Granting CrowdID Administration Rights to a User

Crowd Documentation

RELATED TOPICS

- 2.1 Granting CrowdID access rights to a user
- 2.2 Granting CrowdID Administration Rights to a User

2.2 Granting CrowdID Administration Rights to a User

This page last changed on Feb 19, 2008 by smaddox.

Granting administration rights to a user allows them to use the 'Administration' menu within CrowdID, which enables them to perform the actions described in the <u>CrowdID Administration Guide</u>.

CrowdID administration rights are managed via Crowd. To grant administration rights to a user, you need to add them to the 'crowd-administrators' group as described below.

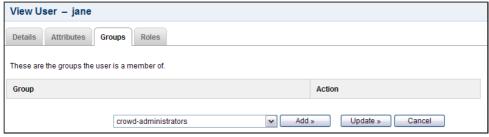
Note:

- Adding a user to the 'crowd-administrators' group will also give them Crowd administration rights
 (unless you choose to use a different group to contain Crowd administrators). See <u>4.08 Granting</u>
 Crowd Administration Rights to a User in the <u>Crowd Administration Guide</u>.
- The 'crowd-administrators' group always contains CrowdID administrators, regardless of whether you are using it to contain Crowd administrators.

To grant administration rights to a user,

- 1. Log in to your Crowd server¹.
- 2. Click the 'Users' tab in the top navigation bar.
- 3. This will display the <u>User Browser</u>. Select the directory that contains the user to whom you wish to grant administration rights.
- 4. Use the 'Search' to locate the user, then click the 'View' link that corresponds to the user.
- 5. This will display the 'User Details' screen. Click the 'Groups' tab.
- 6. A list of the user's current groups (if any) will be displayed. Select the 'crowd-administrators' group from the drop-down box below the list, then click the 'Add' button.
- ¹ To find your Crowd server's URL, see <u>1.1.2 Locating the Crowd Server that CrowdID is using</u>.

Screenshot: Granting Crowd administration rights



RELATED TOPICS

- 2.1 Granting CrowdID access rights to a user
- 2.2 Granting CrowdID Administration Rights to a User

3. Specifying the sites to which users can login

This page last changed on Jun 14, 2007 by rosie@atlassian.com.

There are three ways to specify which OpenID hosts (i.e. websites or IP addresses) your users can login to using their CrowdID:

- No restriction your CrowdID users can login to any OpenID host
- Blacklist your CrowdID users can login to any OpenID host except the one(s) that you specify
 Whitelist your CrowdID users can login to only those OpenID host(s) that you specify

3.1 Allowing all hosts

This page last changed on Jun 14, 2007 by rosie@atlassian.com.

There are three ways to specify which OpenID hosts (i.e. websites or IP addresses) your users can login to using their CrowdID:

- No restriction your CrowdID users can login to any OpenID host
- Blacklist your CrowdID users can login to any OpenID host except the one(s) that you specify
- Whitelist your CrowdID users can login to only those OpenID host(s) that you specify

To allow users to login to any OpenID host,

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'Trust Relationships' link in the left navigation column.
- 4. For 'Restriction Type', select 'None'.

Screenshot: 'Restriction Type - None'



RELATED TOPICS

- 3.1 Allowing all hosts
- 3.2 Allowing all except specified hosts ('Blacklist')
- 3.3 Allowing specified hosts only ('Whitelist')

3.2 Allowing all except specified hosts ('Blacklist')

This page last changed on Jun 14, 2007 by rosie@atlassian.com.

There are three ways to specify which OpenID hosts (i.e. websites or IP addresses) your users can login to using their CrowdID:

- No restriction your CrowdID users can login to any OpenID host
- Blacklist your CrowdID users can login to any OpenID host except the one(s) that you specify
- Whitelist your CrowdID users can login to only those OpenID host(s) that you specify

To specify an OpenID blacklist,

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'Trust Relationships' link in the left navigation column.
- 4. For 'Restriction Type', select 'Blacklist'.
- 5. Wait for a section titled 'Blacklist mode: hosts that can not login' to appear on the screen.
- 6. For each site to which you want to prevent users logging in,
 - a. Type the URL or IP address in the 'Address' field.
 - b. Click the 'Add' button.

<u>Screenshot: 'Restriction Type — Blacklist'</u>



RELATED TOPICS

- 3.1 Allowing all hosts
- 3.2 Allowing all except specified hosts ('Blacklist')
- 3.3 Allowing specified hosts only ('Whitelist')

3.3 Allowing specified hosts only ('Whitelist')

This page last changed on Jun 14, 2007 by rosie@atlassian.com.

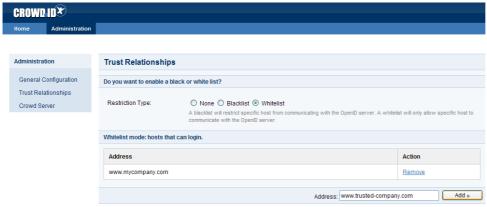
There are three ways to specify which OpenID hosts (i.e. websites or IP addresses) your users can login to using their CrowdID:

- No restriction your CrowdID users can login to any OpenID host
- Blacklist your CrowdID users can login to any OpenID host except the one(s) that you specify
- Whitelist your CrowdID users can login to only those OpenID host(s) that you specify

To specify an OpenID whitelist,

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'Trust Relationships' link in the left navigation column.
- 4. For 'Restriction Type', select 'Blacklist'.
- 5. Wait for a section titled 'Whitelist mode: hosts that can login' to appear on the screen.
- 6. For each site to which you want to allow users to login,
 - a. Type the URL or IP address in the 'Address' field.
 - b. Click the 'Add' button.

Screenshot: 'Restriction Type — Whitelist'



RELATED TOPICS

- 3.1 Allowing all hosts
- 3.2 Allowing all except specified hosts ('Blacklist')
- 3.3 Allowing specified hosts only ('Whitelist')

4. Configuring CrowdID system settings

This page last changed on Jun 13, 2007 by rosie@atlassian.com.

- 4.1 Specifying the CrowdID URL
 4.2 Enabling localhost authentication
 4.3 Enabling immediate authentication requests
 4.4 Enabling communication with stateless clients

4.1 Specifying the CrowdID URL

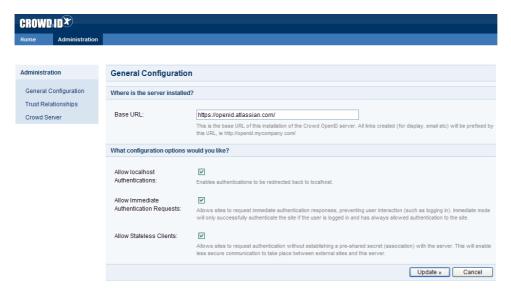
This page last changed on Jun 18, 2007 by smaddox.

The CrowdID URL is the URL that your end-users will type when logging into OpenID-enabled websites.

To define the URL of your CrowdID instance,

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'General Configuration' link in the left navigation column.
- 4. Type the URL into the 'Base URL' field.
- 5. Click the 'Update' button.

Screenshot: 'General Configuration'



RELATED TOPICS

- 4.1 Specifying the CrowdID URL
- 4.2 Enabling localhost authentication
- 4.3 Enabling immediate authentication requests
- 4.4 Enabling communication with stateless clients

4.2 Enabling localhost authentication

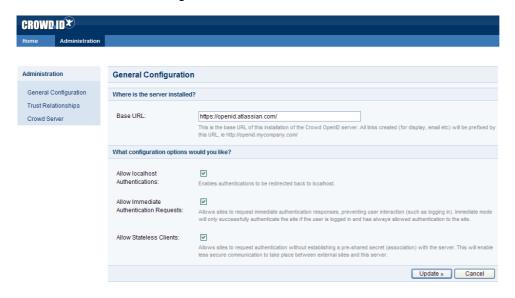
This page last changed on Jun 18, 2007 by rosie@atlassian.com.

Enabling localhost authentication prevents OpenID-enabled sites from directly accessing your end-users' local machines.

To enable localhost authentication,

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'General Configuration' link in the left navigation column.
- 4. Select the 'Allow localhost authentications' checkbox.
- 5. Click the 'Update' button.

Screenshot: 'General Configuration'



RELATED TOPICS

- 4.1 Specifying the CrowdID URL
- 4.2 Enabling localhost authentication
- 4.3 Enabling immediate authentication requests
- 4.4 Enabling communication with stateless clients

Crowd Documentation

RELATED TOPICS

- 4.1 Specifying the CrowdID URL
- 4.2 Enabling localhost authentication
- 4.3 Enabling immediate authentication requests
- 4.4 Enabling communication with stateless clients

4.3 Enabling immediate authentication requests

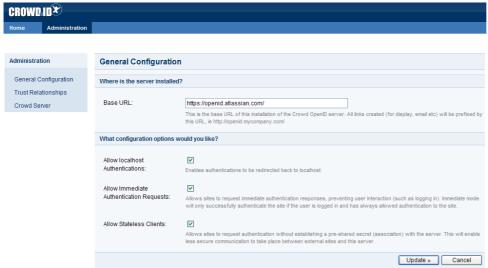
This page last changed on Jun 18, 2007 by rosie@atlassian.com.

Enabling 'Allow immediate authentication requests' allows an OpenID-enabled site to check whether the user is logged in, without actually prompting the user to login. Known as pass-through authentication, this provides greater convenience for end-users, particularly when an end-user visits a site for which they have previously selected 'Allow Always' (see <u>2.4 Allowing or denying a login</u> in the <u>CrowdID User Guide</u>).

To enable 'Allow immediate authentication requests',

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'General Configuration' link in the left navigation column.
- 4. Select the 'Allow immediate authentication requests' checkbox.
- 5. Click the 'Update' button.

Screenshot: 'General Configuration'



RELATED TOPICS

- 4.1 Specifying the CrowdID URL
- 4.2 Enabling localhost authentication
- 4.3 Enabling immediate authentication requests
- 4.4 Enabling communication with stateless clients

Crowd Documentation

RELATED TOPICS

- 4.1 Specifying the CrowdID URL
- 4.2 Enabling localhost authentication
- 4.3 Enabling immediate authentication requests
- 4.4 Enabling communication with stateless clients

4.4 Enabling communication with stateless clients

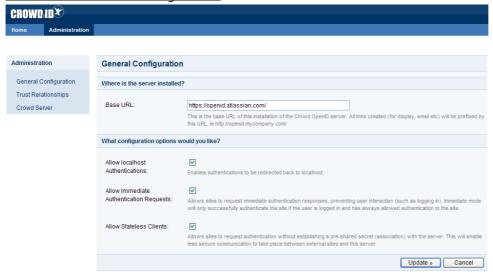
This page last changed on Jun 20, 2007 by shamid.

Some OpenID-enabled sites do not support pre-shared secrets (associations). Selecting allow stateless clients enables your CrowdID server to communicate with such sites.

To allow stateless clients,

- 1. Login to CrowdID.
- 2. Click the 'Administration' link in the top navigation bar.
- 3. Click the 'General Configuration' link in the left navigation column.
- 4. Select the 'Allow stateless clients' checkbox.
- 5. Click the 'Update' button.

Screenshot: 'General Configuration'



RELATED TOPICS

- 4.1 Specifying the CrowdID URL
- 4.2 Enabling localhost authentication
- 4.3 Enabling immediate authentication requests
- 4.4 Enabling communication with stateless clients

Crowd Documentation

RELATED TOPICS

- 4.1 Specifying the CrowdID URL
- 4.2 Enabling localhost authentication
- 4.3 Enabling immediate authentication requests
- 4.4 Enabling communication with stateless clients

CrowdID User Guide

This page last changed on Nov 26, 2007 by smaddox.

1 With Crowd comes CrowdID, your OpenID provider.

CrowdID is an Atlassian product which allows you to use a single login for all OpenID-enabled websites.

This means that you don't have to remember a separate username and password for each different site that you visit. You can just use your OpenID for all of them.

You can use CrowdID if your administrator has installed it for your organisation. For instructions on setting up CrowdID, please see the <u>CrowdID Administration Guide</u>. The CrowdID User Guide tells you how to

- · Log in to websites using CrowdID.
- Instruct CrowdID to always allow login to a specific site.
- Set up your own profile(s) within CrowdID.
- · Use CrowdID to change your password.

Contents of the CrowdID User Guide

- 1. Getting started with CrowdID
 - ° 1.1 What is OpenID?
 - 1.2 What is CrowdID?
 - 1.3 What is an OpenID URL or identifier?
 - 1.4 Viewing the CrowdID page
- 2. Logging in to a website using OpenID
 - 2.1 Does the website support OpenID?
 - 2.2 Entering your OpenID URL
 - 2.3 Logging in to CrowdID
 - 2.4 Allowing or denying a login
 - 2.5 Providing additional profile information to a website
- 3. Viewing your always-approved websites
- 4. Viewing your login history
- 5. Updating your profile
- 6. Using more than one profile
 - 6.1 Adding a profile
 - 6.2 Choosing a profile for a website
 - 6.3 Setting a default profile
 - 6.4 Deleting a profile
- 7. Changing or resetting your password
 - 7.1 Changing your password
 - 7.2 Resetting your password

1. Getting started with CrowdID

This page last changed on Jun 15, 2007 by smaddox.

CrowdID is an Atlassian product which allows you to use a single login for all OpenID-enabled websites.

This means that you don't have to remember a separate username and password for each different site that you visit. You can just use your OpenID for all of them.

You can use CrowdID if your administrator has installed it for your organisation.

- 1.1 What is OpenID?
- 1.2 What is CrowdID?
- 1.3 What is an OpenID URL or identifier?1.4 Viewing the CrowdID page

1.1 What is OpenID?

This page last changed on Jun 19, 2007 by smaddox.

The term 'OpenID' has two meanings:

- · The OpenID protocol, described below.
- · Your own identifier or URL.

<u>OpenID</u> is an open, free protocol which allows you to use a single <u>identifier</u> to login to any OpenID-enabled website. OpenID allows the website to communicate with your OpenID provider (e.g. your organisation's <u>CrowdID</u> server) when attempting to verify your login.



Do you have a zillion usernames and passwords, which you use for logging in to blogs and websites all over the place? OpenID allows you to throw them all away, for all websites that support it. More and more sites are coming on board.

RELATED TOPICS

- 1.1 What is OpenID?
- 1.2 What is CrowdID?
- 1.3 What is an OpenID URL or identifier?
- 1.4 Viewing the CrowdID page

1.2 What is CrowdID?

This page last changed on Jun 19, 2007 by smaddox.

CrowdID is an <u>Atlassian</u> product which makes use of the <u>OpenID</u> protocol to allow you to use a single login for a number of websites. To put it another way: CrowdID is an 'OpenID provider'. You can use CrowdID if your administrator has installed it for your organisation.

This means that you can:

- Securely store your username and password on your organisation's server.
- Use your OpenID as a single identifier to log in to all websites which support OpenID.
- Control how you allow or deny login requests from websites.
 - **②**

Your organisation can use CrowdID to set up an internal OpenID provider. There are also other OpenID providers, where you can get a free OpenID.

RELATED TOPICS

- 1.1 What is OpenID?
- 1.2 What is CrowdID?
- 1.3 What is an OpenID URL or identifier?
- 1.4 Viewing the CrowdID page

1.3 What is an OpenID URL or identifier?

This page last changed on Jun 19, 2007 by smaddox.

To log in to an OpenID-enabled website you need an OpenID identifier, also called an OpenID URL or simply an OpenID. Your OpenID is a URL (web address) which points to your organisation's CrowdID server. Here are some examples of what your OpenID may look like:

http://my.server.name/myname http://myname.mysite.com

To find your OpenID URL, you can:

- · Ask your system administrator, or
- Click the 'My OpenID' link on the 'Home' tab of the CrowdID page.

RELATED TOPICS

- 1.1 What is OpenID?
- 1.2 What is CrowdID?
- 1.3 What is an OpenID URL or identifier?
- 1.4 Viewing the CrowdID page

1.4 Viewing the CrowdID page

This page last changed on Jun 19, 2007 by smaddox.

The CrowdID page allows you to:

- View your OpenID URL.
- Set up your profile(s).
- View your list of <u>always-approved sites</u>.
- View your login history.
- Resume approval of a login. (This option appears only during a login process, if you move away from the 'OpenID Verification' page.)
- Change your password.

There are two ways to access the CrowdID page:

- · While you are logging in to another site.
- · Directly via the CrowdID URL.

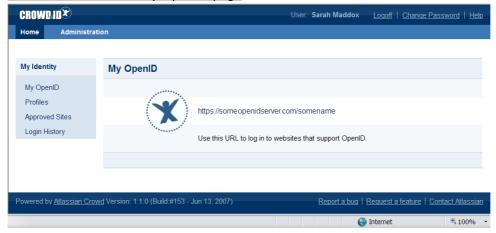
To access the CrowdID page while you are logging in to another site,

- 1. Use your OpenID to log in to the website you want to visit.
- 2. Log in to CrowdID if prompted.
- 3. The CrowdID 'OpenID Verification' page will appear, provided that you have not previously added the website to your list of always-approved sites. You can choose any of the CrowdID options on the left-hand navigation panel, even during the login process.
- 4. When you have finished your tasks in CrowdID, you can resume the login.

To access CrowdID directly via the CrowdID URL,

- 1. Ask your administrator for the CrowdID address (URL) as configured for your organisation.
- 2. Type or paste the address into the address or navigation bar of your internet browser.
- 3. The CrowdID Login page will appear. Type in your username and password.
- 4. Click the 'Login' button.
- 5. The CrowdID 'My OpenID' page will appear. The CrowdID options are displayed in the left-hand navigation panel and top menu bar.

Screenshot: CrowdID My OpenID page



RELATED TOPICS

- 1.1 What is OpenID?
- 1.2 What is CrowdID?
- 1.3 What is an OpenID URL or identifier?
- 1.4 Viewing the CrowdID page

2. Logging in to a website using OpenID

This page last changed on Jun 19, 2007 by smaddox.

CrowdID enables you to log in to a website using your <a>OpenID. The login process depends upon the following:

- Have you logged in to CrowdID already during this browser session?
- Have you previously added the website to your list of always-approved sites?
- Does the website you are visiting require additional profile information?

Steps in the login process:

- 1. Find the OpenID login page or section on the website you want to visit.
- 2. Enter your OpenID and click the login button.
- 3. If prompted, <u>log in to CrowdID</u>. (Required if you have not already logged in during this browser session.)
- 4. If prompted, instruct CrowdID to <u>allow the website login</u>. (Required if you have not previously added the website to your list of always-approved sites.)
- 5. If prompted, <u>supply additional profile information</u>. (Required if the website you are visiting wants more information.)
 - The login process can be very simple: just the first two steps above, provided that you have already logged in to CrowdID this session and have already added the website to your list of always-approved sites.

2.1 Does the website support OpenID?

This page last changed on Jun 19, 2007 by smaddox.

You can only use your OpenID (also called an <u>OpenID URL or identifier</u>) to log in to a website if the site supports the <u>OpenID</u> protocol. The number of websites that support OpenID is growing rapidly.

To see if a particular website supports OpenID, check the site's login page for one or more of the following:

- The word 'OpenID'.
- The OpenID logo

RELATED TOPICS

- 2.1 Does the website support OpenID?
- 2.2 Entering your OpenID URL
- 2.3 Logging in to CrowdID
- 2.4 Allowing or denying a login
- 2.5 Providing additional profile information to a website

2.2 Entering your OpenID URL

This page last changed on Jun 19, 2007 by smaddox.

With CrowdID, you can use your 'OpenID' (also called an <u>OpenID URL or identifier</u>) to log in to a website that <u>supports the OpenID protocol</u>.

To log in to a website which supports OpenID,

- 1. Go to the login page of the website you want to visit.
- 2. Look for the OpenID login section.
 - Sometimes the OpenID login will be on the same page as the standard login. Other sites will have a separate OpenID login page.
- 3. Type or paste your OpenID into the login text box.
 - Usually, you must enter the full OpenID. In some sites, you can enter the OpenID without 'http://'
- 4. Click the login button. The button will probably be labelled 'Log in', 'Sign in' or 'Go'.

One of the following things will happen now:

- If you have not already logged in to CrowdID during this browser session, you will see the CrowdID login page.
- If you have already logged in to CrowdID and you have previously instructed CrowdID to allow this website always, then you will be logged straight into the website.
- If you have already logged in to CrowdID but have not previously set this site to "Allow Always", then CrowdID will ask you to approve the login.
- If your administrator has blocked access to this website, CrowdID will display an 'OpenID Verification Error' message.

RELATED TOPICS

- 2.1 Does the website support OpenID?
- 2.2 Entering your OpenID URL
- 2.3 Logging in to CrowdID
- 2.4 Allowing or denying a login
- 2.5 Providing additional profile information to a website

2.3 Logging in to CrowdID

This page last changed on Jun 19, 2007 by smaddox.

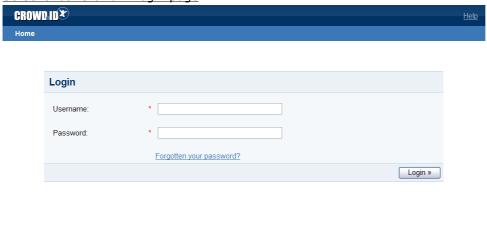
CrowdID will ask you to log in, if you have not already done so during this browser session or if your session has timed out. The CrowdID login may appear during the process of logging in to another website, or when you are accessing CrowdID directly.

To log in to CrowdID,

- 1. Type in your username and password.
- 2. Click the 'Login' button.

You can <u>reset your password</u>, if you have forgotten it.

Screenshot: CrowdID login page



If you are in the process of logging in to another web site, CrowdID will now ask you to approve the login.

RELATED TOPICS

- 2.1 Does the website support OpenID?
- 2.2 Entering your OpenID URL
- 2.3 Logging in to CrowdID
- 2.4 Allowing or denying a login
- 2.5 Providing additional profile information to a website

2.4 Allowing or denying a login

This page last changed on Jun 19, 2007 by smaddox.

When you use your OpenID to log in to a website, CrowdID will present the 'OpenID Verification' page where you can allow or deny the login.



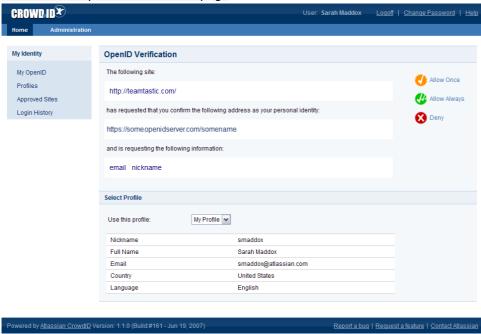
If you have previously instructed CrowdID to allow this site always, you will not see this page. You can remove a site from the 'Allow Always' list in CrowdID.

You can instruct CrowdID to:

- Allow the login for this session only ('Allow Once').
- Allow login to this site every time you use your OpenID ('Allow Always').
- Refuse login to this site ('Deny').
- Use a specific profile.

If you move away from the 'OpenID Verification' page within CrowdID, you can go back to the page and resume approval.

Screenshot: OpenID Verification page



To allow the login for this session only,

- 1. Click 'Allow Once' on the right of the CrowdID 'OpenID Verification' page.
- 2. CrowdID will send you back to the original site, passing your profile information as well as the confirmed login. The website you are visiting may ask you to <u>complete your profile information</u>.

To allow login to this site every time you use your OpenID,

- 1. Click 'Allow Always' on the right of the CrowdID 'OpenID Verification' page.
- 2. CrowdID will add the website to your list of <u>approved sites</u> and send you back to the original site, passing your profile information as well as the confirmed login. The website you are visiting may ask you to <u>complete your profile information</u>.

To refuse login to this site,

- 1. Click 'Deny' on the right of the CrowdID 'OpenID Verification' page.
- 2. CrowdID will send you back to the original site and refuse the login. The original site will probably show a message something like 'Verification cancelled'.

To use a specific profile,

- 1. If you have defined <u>more than one profile</u>, you can choose a specific profile for the website you are visiting. Select a profile from the dropdown list labelled 'Use this profile' on the CrowdID 'OpenID Verification' page.
- 2. The profile details will change in the 'Select Profile' section of the page. CrowdID will pass these profile details to the website when you <u>allow the login</u>.

To go back to the 'OpenID Verification' page and resume approval,

- 1. Click 'Resume Approval' in the left-hand navigation panel.
 - 1 This option will appear if you move away from the 'OpenID Verification' page during the login process.
- 2. CrowdID will return to the 'OpenID Verification' page, where you can allow the login.

RELATED TOPICS

- 2.1 Does the website support OpenID?
- 2.2 Entering your OpenID URL
- 2.3 Logging in to CrowdID
- 2.4 Allowing or denying a login
- 2.5 Providing additional profile information to a website

2.5 Providing additional profile information to a website

This page last changed on Jun 19, 2007 by smaddox.

When you <u>log in</u> to a website using your OpenID, CrowdID passes your <u>profile information</u> to the website. Some websites will then log you in immediately, while other websites may ask you to confirm or complete the profile information.

1 You are now outside CrowdID. Any dialogue here is between you and the website you are visiting.

To provide additional profile information to a website,

- 1. Check the profile information displayed, and add extra information as you wish.
- 2. Click the button or other option supplied by the website to complete the login process.



You can change your profile information and define more than one profile in CrowdID.

RELATED TOPICS

- 2.1 Does the website support OpenID?
- 2.2 Entering your OpenID URL
- 2.3 Logging in to CrowdID
- 2.4 Allowing or denying a login
- 2.5 Providing additional profile information to a website

3. Viewing your always-approved websites

This page last changed on Jun 19, 2007 by smaddox.

When logging in to a website, you can instruct CrowdID to <u>allow login</u> to the site every time you use your OpenID ('Allow Always').

The CrowdID 'Approved Sites' page allows you to:

- View your list of always-approved sites.
- Remove a site from the list.
- Choose a profile for use when logging in to a site.
 - 0
- If you have never instructed CrowdID to 'Allow Always' for any sites, The 'Approved Sites' page will display a message like 'You currently have no approved sites.'
- You can add profiles on the CrowdID 'Profiles' page.

To view your list of always-approved sites,

- 1. Access CrowdID.
- 2. Click 'Approved Sites' in the left-hand navigation panel.

To remove a site from the list,

- 1. Access CrowdID.
- 2. Click 'Approved Sites' in the left-hand navigation panel.
- 3. Your list of always-approved sites will appear. Click the remove button



next to the site which

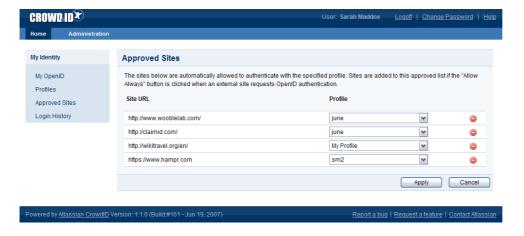
you want to remove.

- 4. Click the 'Apply' button.
- 5. 'Update Successful' message is displayed.
 - o If you do not click the 'Apply' button, your changes will be cancelled.

To choose a profile for use when logging in to a site,

- 1. Access CrowdID.
- 2. Click 'Approved Sites' in the left-hand navigation panel.
- 3. Your list of always-approved sites will appear. Select the profile you want from the dropdown list next to the applicable site.
- 4. Click the 'Apply' button.
- 5. 'Update Successful' message is displayed.
 - olumber 15 If you do not click the 'Apply' button, your changes will be cancelled.

Screenshot: CrowdID Approved Sites page



RELATED TOPICS

- 1. Getting started with CrowdID
- 2. Logging in to a website using OpenID
- 3. Viewing your always-approved websites
- 4. Viewing your login history
- 5. Updating your profile
- <u>6. Using more than one profile</u>
- 7. Changing or resetting your password

4. Viewing your login history

This page last changed on Nov 26, 2007 by smaddox.

The CrowdID 'Login History' page displays a list of the sites you have visited and the type of approval you gave on each visit:

- · 'Allow Always' At the time of this login, you instructed CrowdID to allow login to the site every time you use your OpenID.
- '(Auto) Allow Always' This login was allowed automatically, because you have previously instructed CrowdID to allow login to the site every time you use your OpenID.
- 'Allow Once' You instructed CrowdID to allow login to the site at that time only.
- 'Deny' You instructed CrowdID to refuse the login to the site at that time.

To view your login history,

- 1. Access CrowdID.
- 2. Click 'Login History' in the left-hand navigation panel.

If you have used your OpenID many times, the login history items will be shown on more than one page. To move from one page to another, click the page numbers or the 'Next' and 'Prev' links at the bottom of the page.

Report a bug | Request a feature | Contact Atla

CROWD ID* User: Sarah Maddox <u>Loqoff</u> | <u>Change Password</u> | <u>Hel</u> My Identity **Login History** My OpenID The following is a record of all authentication activity with external sites with your account. Action Approved Sites http://wikitravel.org/en/ 19-06-2007 09:24:18 Allow Always Login History 19-06-2007 09:23:32 http://www.wooblelab.com 19-06-2007 09:10:11 <u>http://wikitravel.org/en/</u> http://www.wooblelab.com/ 19-06-2007 12:49:03 Allow Once 19-06-2007 12:46:42 http://www.wooblelab.com/ Allow Once http://wikitravel.org/en/ 18-06-2007 11:30:06 (Auto) Allow Always http://wikitravel.org/en/ Allow Always 18-06-2007 11:26:06 http://wikitravel.org/en/ Allow Always http://teamtastic.com/ 18-06-2007 11:12:21 Allow Once 17-06-2007 11:35:46 http://*.openid.net/ 17-06-2007 11:25:46 https://www.hampr.com Allow Once https://www.hampr.com Allow Once 17-06-2007 11:24:23 17-06-2007 09:25:07 http://wikitravel.org/en/ 17-06-2007 09:22:15 (Auto) Allow Always http://wikitravel.org/en/ http://wikitravel.org/en/ 17-06-2007 09:20:34 Allow Always 17-06-2007 09:17:55 http://wikitravel.org/en/ Allow Once http://wikitravel.org/en/ 17-06-2007 09:12:06 (Auto) Allow Always http://claimid.com/ 17-06-2007 08:53:41 Allow Always 17-06-2007 08:51:03 http://www.wooblelab.com/ (Auto) Allow Always http://www.wooblelab.com/ 17-06-2007 08:49:28 Allow Always http://www.wooblelab.com/ Allow Always 15-06-2007 12:40:47 http://wikitravel.org/en/ Allow Always http://www.wooblelab.com 14-06-2007 08:57:06 Allow Once http://www.wooblelab.com/ Deny 14-06-2007 08:43:36 http://wikitravel.org/en/ Deny 1 2 Next >>

Screenshot: CrowdID Login History page

RELATED TOPICS

1. Getting started with CrowdID

wered by Atlassian CrowdID Version: 1,2-SNAPSHOT (Build:#180 - Jun 22, 2007)

- 2. Logging in to a website using OpenID
- 3. Viewing your always-approved websites
- 4. Viewing your login history

- 5. Updating your profile6. Using more than one profile7. Changing or resetting your password

5. Updating your profile

This page last changed on Jun 18, 2007 by smaddox.

When you log in to a website using your OpenID, CrowdID will pass some information to the website. The information is copied from your profile on CrowdID. When your profile is first created, CrowdID will autofill the information where possible, by copying:

- Country and language from the language information in your browser.
- Name and email address from your organisation's user directory.

You can update your profile information on CrowdID, as described below.

You can also:

- Add a new profile.
- Choose a profile for a website.
- Set a profile as default.
- · Delete a profile.

To update your profile,

- 1. Access CrowdID.
- 2. Click 'Profiles' in the left-hand navigation panel.
- 3. Select the required profile from the 'Profile' dropdown list, if you have more than one profile.
- 4. Update the profile details then click the 'Save' button.
- 5. 'Profile updated' message is displayed at the top of the page.

User: Sarah Maddox CROWD ID® My Identity My OpenID Select a profile to edit or create a new profile Profiles My Profile (default) Approved Sites Login History Update profile details My Profile Profile Name Nickname smaddox Full Name Sarah Maddox Email: smaddox@atlassian.com Day Month Year Gender Postcode United States Country Timezone: ~ English 💌 Language Save Delete Cancel ered by <u>Atlassian CrowdlD</u> Version: 1.1.0 (Build:#161 - Jun 19, Report a buq | Request a feature | Contact Atlas

Screenshot: CrowdID Profiles page

RELATED TOPICS

- 1. Getting started with CrowdID
- 2. Logging in to a website using OpenID
- 3. Viewing your always-approved websites

- 4. Viewing your login history
 5. Updating your profile
 6. Using more than one profile
 7. Changing or resetting your password

6. Using more than one profile

This page last changed on Jun 18, 2007 by smaddox.

You can create multiple profiles in CrowdID and then allocate specific profiles to specific websites.

- <u>6.1 Adding a profile</u>
- 6.2 Choosing a profile for a website
 6.3 Setting a default profile
 6.4 Deleting a profile

6.1 Adding a profile

This page last changed on Jun 17, 2007 by smaddox.

When you log in to a website using your OpenID, CrowdID will pass some information to the website. The information is copied from your profile on CrowdID. When your profile is first created, CrowdID will autofill the information where possible, by copying:

- Country and language from the language information in your browser.
- Name and email address from your organisation's user directory.

To add a profile,

1. Access CrowdID.

Screenshot: CrowdID adding a profile

- 2. Click 'Profiles' in the left-hand navigation panel.
- 3. Select '-- Create New Profile --' from the 'Profile' dropdown list.
- 4. CrowdID will auto-fill the information where possible. Update the profile details then click the 'Save' button.

Save Cancel

5. 'Profile updated' message is displayed at the top of the page.

CROWD ID* User: Sarah Maddox My Identity **Profiles** My OpenID Select a profile to edit or create a new profile -- Create New Profile --Approved Sites Login History Update profile details Profile Name The Profile Name is the unique name of the new profile to be created in your Crowd.ID acco Nickname smaddox A short name to describe yourself. Often used to identify you in places like an online forur Full Name Sarah Maddox Email smaddox@atlassian.com Day Month Year V Birth Date ~ Postcode Australia Timezone ~ English 🗸 Language

RELATED TOPICS

- 6.1 Adding a profile
- 6.2 Choosing a profile for a website
- 6.3 Setting a default profile
- 6.4 Deleting a profile

6.2 Choosing a profile for a website

This page last changed on Jun 20, 2007 by smaddox.

You can choose a specific profile for use when logging in to a website. There are different ways to choose a profile:

- Choose a profile for a specific login, during the <u>login process</u>. You can do this for sites which you have not set to 'Allow Always'.
- Choose a profile for a specific website, on the CrowdID 'Approved Sites' page. You can do this for sites which you have set to 'Allow Always'.
- Set your default profile on the CrowdID 'Profiles' page.

RELATED TOPICS

- 6.1 Adding a profile
- 6.2 Choosing a profile for a website
- 6.3 Setting a default profile
- 6.4 Deleting a profile

6.3 Setting a default profile

This page last changed on Jun 20, 2007 by shamid.

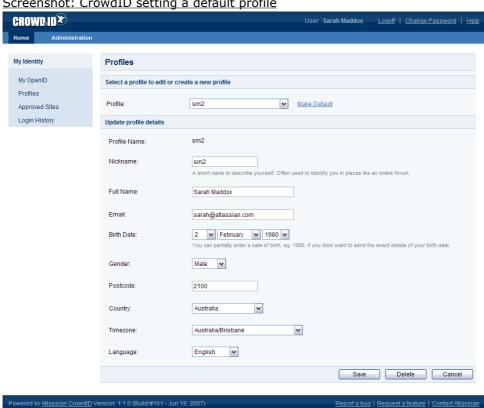
If you have more than one profile, you can choose one of them as default.

Effect of the 'default' profile when you are logging in to a website:

- If you have never logged in to the website before or have previously allowed or denied authentication to that site, the default profile will be pre-selected. You can still choose a different profile during the login.
- · If you have set the website to 'Always Allow', CrowdID will use the profile selected for the site on the Approved Sites page.

To set a default profile,

- 1. Access CrowdID.
- 2. Click 'Profiles' in the left-hand navigation panel.
- 3. Select the required profile in the 'Profile' dropdown list
- 4. Click the 'Make Default' link next to the 'Profile' dropdown list.
 - 🛈 The 'Make Default' link does not appear if the selected profile is already the default.
- 5. The word '(default)' appears next to the profile name in the dropdown list.



Screenshot: CrowdID setting a default profile

RELATED TOPICS

- 6.1 Adding a profile
- 6.2 Choosing a profile for a website
- 6.3 Setting a default profile
- 6.4 Deleting a profile

6.4 Deleting a profile

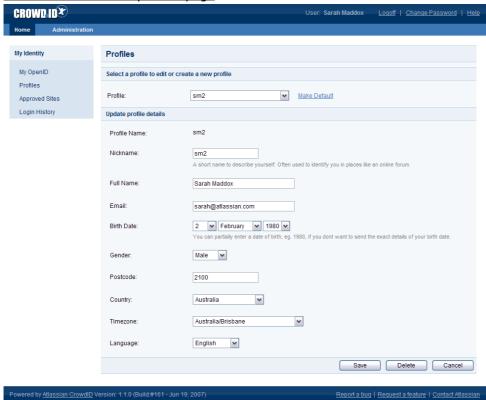
This page last changed on Jun 19, 2007 by smaddox.

You can delete one of your profiles on CrowdID, provided that it is not your default profile.

To delete a profile,

- 1. Access CrowdID.
- 2. Click 'Profiles' in the left-hand navigation panel.
- 3. Select the required profile in the 'Profile' dropdown list
- 4. Click the 'Delete' button.
- 5. 'Profile deleted' message is displayed at the top of the page.
 - If you delete a profile which is linked to one or more of your <u>always-approved websites</u>, CrowdID will remove the affected website(s) from the list.

Screenshot: CrowdID profiles page



RELATED TOPICS

- 6.1 Adding a profile
- 6.2 Choosing a profile for a website
- 6.3 Setting a default profile
- 6.4 Deleting a profile

7. Changing or resetting your password

This page last changed on Jun 19, 2007 by smaddox.

If your administrator has allowed it, you can use CrowdID to change your password across all Crowd applications. Note that you will need to be logged in to Crowd before you can do this.

When attempting to log in to Crowd, you can also <u>reset your password</u>, if you have forgotten the old one. A new password will be emailed to you.

7.1 Changing your password

This page last changed on Jun 17, 2007 by smaddox.

The CrowdID 'Change Your Password' page allows you to change your password across all applications in your organisation, provided that the application is linked to Crowd.

Note:

- Crowd will attempt to change your password in all the user directories linked to Crowd. This will be successful where the directory allows it.
- Your administrator may disable password-change via CrowdID. In that case, you will receive an error message when you apply the change.

To change your password,

- 1. Access CrowdID.
- 2. Click 'Change Password' in the top menu bar.
- 3. The 'Change Your Password' page will appear. Type in your old password once, and the new password twice.
- 4. Click the 'Update' button.
- 5. 'Password updated' message is displayed.



If the change is successful, your password may also have changed in other Crowdconnected applications.

Screenshot: CrowdID Change Your Password page



RELATED TOPICS

- 1. Getting started with CrowdID
- 2. Logging in to a website using OpenID
- 3. Viewing your always-approved websites
- 4. Viewing your login history
- 5. Updating your profile
- <u>6. Using more than one profile</u>
- 7. Changing or resetting your password

7.2 Resetting your password

This page last changed on Jun 19, 2007 by smaddox.

The CrowdID 'Login' page allows you to reset your password, which is useful when you have forgotten the password.



This will reset your password across all applications in your organisation, provided that the application is linked to Crowd.

To reset your password,

- 1. Access CrowdID.
- 2. Click the 'Forgotten your password?' link on the CrowdID Login page.
- 3. The 'Reset Your Password' page will appear. Type in your Crowd username and click the 'Continue' button.
- 4. A message will appear: 'Your new password is on the way!'. Click the 'Home' link at the top of the page.
- 5. You will receive an email message with your new password. Copy the password.
- 6. Log in to CrowdID using the new password.
- 7. Change your password to one you can remember easily.

⚠

If the change is successful, your password may also have changed in other Crowdconnected applications.

Screenshot: CrowdID Reset Your Password page



RELATED TOPICS

- 1. Getting started with CrowdID
- 2. Logging in to a website using OpenID
- 3. Viewing your always-approved websites
- 4. Viewing your login history
- 5. Updating your profile
- 6. Using more than one profile
- 7. Changing or resetting your password

__newreleaseCrowd

This page last changed on Mar 03, 2008 by smaddox.



⚠ Crowd 1.3 has now been released — see the Crowd 1.3 Release Notes