

# Crowd 2 Plugin

## Plugin Information

View [Crowd 2 Integration on the plugin site](#) for more information.

Older versions of this plugin may not be safe to use. Please review the following warnings before using an older version:

- [Credentials stored in plain text](#)
- [SSRF vulnerability](#)

**This plugin is up for adoption.** The maintainer is looking for a co-maintainer or successor. [Click here to learn more!](#)

## Crowd 2 Plugin

This plugin enables use of [Atlassian Crowd](#)  $\geq 2.1.x$  as an authentication source. Crowd is a commercial identity management and Single Sign-On (SSO) application.

## Configuration

To configure the plugin, you first need to create a new application in Crowd. <https://confluence.atlassian.com/crowd/adding-an-application-18579591.html> has more information on how to configure applications in Crowd.

The screenshot shows the 'Add application' page in the Atlassian Crowd web interface. The navigation bar at the top includes 'Crowd', 'Applications', 'Users', 'Groups', 'Directories', and 'Audit log'. The main content area is titled 'Add application' and features a progress indicator with five steps: 'Details' (active), 'Connection', 'Directories', 'Authorisation', and 'Confirmation'. The form includes the following fields and options:

- Application type:** A dropdown menu set to 'Generic Application'. Below it is a note: 'Are you connecting JIRA to Crowd, or perhaps Confluence or Bamboo?'
- Name:** A text input field containing 'jenkins'. Below it is a note: 'The unique name that the application will use to authenticate against the Crowd framework as a client.'
- Description:** A text input field containing 'Jenkins CI Server'. Below it is a note: 'A short description of the application. Often a URL is helpful.'
- Password:** A password input field with masked characters '\*\*\*\*\*'.
- Confirm password:** A second password input field with masked characters '\*\*\*\*\*'.

At the bottom of the form are two buttons: 'Next' (highlighted in blue) and 'Cancel'. The footer of the page contains the text: 'Powered by Atlassian Crowd Version: 3.2.1 (Build:#952 - 2018-05-09)' and links for 'Report a bug', 'Request a feature', 'About', and 'Contact Atlassian'. The Atlassian logo is centered at the bottom.

Be sure to also allow connections to Crowd from the server Jenkins runs on.

Next you need to configure a group that contains all users that are allowed to login into Jenkins. <https://confluence.atlassian.com/crowd/managing-users-and-groups-193223.html> has more information how to manage users and groups.

Crowd Applications Users Groups Directories Audit log

Search groups

Add group

Name\*   
The unique name of the group.

Description   
Description of the group.

Directory\*   
The directory the group belongs to.

Active

Powered by Atlassian Crowd Version: 3.2.1 (Build:#952 - 2018-05-09)

[Report a bug](#) · [Request a feature](#) · [About](#) · [Contact Atlassian](#)

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Once you have the application and group configured in Crowd, you can enable Crowd-based security in Jenkins on the "Manage Jenkins" page. Enter the URL of your Crowd server (will typically end with .../crowd) as well as the application name, password and group name you configured in Crowd.

Access Control

**Security Realm**

Delegate to servlet container

Crowd 2

Crowd URL

Application Name

Application Password

Group name for users

Click on the "Check Connection" button to ensure that your connection credentials are valid.

Crowd supports nested groups, i.e. groups which contain other groups as members and groups that are members of other groups (see <http://confluence.atlassian.com/display/CROWD/Nested+Groups+in+Crowd>). If you want to use this feature, click on the "Advanced..." button and enable it. This may degrade performance, depending on your server configuration.

This plugin doesn't support Crowd roles. As long as there's not enough interest, it's unlikely that they are supported in a future version because they are deprecated since Crowd 2.0 (see [here](#) for details).

## Requirements

This plugin has been tested with Jenkins 1.431 and Crowd 2.3.x, but was built using Jenkins core 1.398 so it should work with Jenkins  $\geq$  1.398.

This plugin uses Crowd REST APIs for connecting to Crowd and therefore requires Crowd  $\geq$  2.1 (see <http://developer.atlassian.com/display/CROWDDEV/Crowd+REST+APIs>). If you have an older Crowd server, use the older "Crowd Plugin" instead.

## FAQ

### Is Single-Sign-On (SSO) supported?

Yes :) That was the main reason I wrote this plugin.

### What's the difference between this plugin and "Crowd Plugin"?

Apart from SSO this plugin contains fixes for almost all open issues of the "Crowd Plugin". (If you look at the issue navigator, there are actually seven; five of them are almost or even older than one year. Looking at the source code at GitHub (<https://github.com/jenkinsci/crowd-plugin>), there doesn't seem to be much activity trying to fix them). I have to admit that I haven't tested [JENKINS-9924](#) so far, i.e. what happens when the Crowd server is down. This will be done in the near future.

A more technically answer is that this plugin code was written from scratch using a different API to connect to the Crowd server, i.e. the Crowd REST APIs. These are recommended by Atlassian for long-term compatibility.

In contrary, the "Crowd Plugin" uses Crowd's Java integration libraries that have the disadvantage that one perhaps has to re-compile the source code when a new Crowd release is available and one has to update these libraries.

### Why do I have to choose a group for users?

To restrict the number of your Crowd users that are allowed to login. I thought it's cool to have such a feature because for example Confluence and JIRA, other well known products from Atlassian, also work that way.

### Is there Localization support?

Yes.

Actually only German localization is included. If you can translate a couple of messages and info texts into other languages, please send me a note, and I'll include them in a newer version.

## Version History

### Version 2.0.1 (Sep 25, 2018)

- Fix security issues: [one](#), [two](#)

### Version 2.0.0 (Jul 23, 2018)

#### Fixed Bugs

- [JENKINS-16703](#) - Too many periodic requests to Crowd server
- [JENKINS-27070](#) - Plenty of "SEVERE: Host connection pool not found, hostConfig=HostConfiguration"

#### Improvements

- [JENKINS-40472](#) - Crowd2 plugin should allow blanks in parameter 'Restrict groups'
- Added possibility to enable caching to reduce remote calls to Crowd

Thanks a lot [Arnaud Héritier](#), [Zhenlei Huang](#) and all others who tested, gave input and had patience

### Version 1.8 (Aug 1, 2014)

- [\[JENKINS-23208\]](#) Fixed trace with enabled "remember me" checkbox.
- `isAuthenticated()` in `/whoAmI` page is now true.

### Version 1.7 (Apr 23, 2014)

- [\[JENKINS-21852\]](#) Added http proxy configuration.
- [\[JENKINS-18791\]](#) Session validation interval saved from ui.
- [\[JENKINS-13279\]](#) Don't use `ssoTokenHelper`, work with Embedded Crowd in Jira.
- [\[JENKINS-16703\]](#) More options for connection configuration.

- Updated rest-api library to 2.7.1

## Version 1.6 (Nov 23, 2013)

Note: **check that your group list uses CSV separator and you have SSO checkbox enabled (if you use it).**

- [pull #3](#) Fixed bug whereby bogus user IDs were created that included display names. **When upgrading, manual cleanup of `JENKINS_HOME/users/` may be required.**
- [JENKINS-15509](#): Don't require group.
- [JENKINS-15753](#): Allow spaces in group names.
- [JENKINS-19212](#): Make "useSSO" optional.
- Updated rest-api library to 2.6.6.

## Version 1.5 (Aug 23, 2012)

- [JENKINS-11829](#): Support more than one group
- [JENKINS-12339](#): misspelling in error message
- [JENKINS-13547](#): Jenkins runs extremely slow with remote crowd server

## Version 1.4 (Nov 25, 2011)

- Upgrade commons-httpclient version to 3.1.

## Version 1.3 (Oct 27, 2011)

Fixed the following bugs:

- [JENKINS-11418](#): Crowd2 doesn't always show full user name
- [JENKINS-11507](#): Single-sign-on isn't working correctly in the Crowd 2 plugin

## Version 1.2 (Oct 19, 2011)

- Fixed a problem that prevented you at least from adding pre- or post build steps when reconfiguring a build job.
- Added some debug log messages.

## Version 1.1 (Oct 11, 2011)

- Fix for a problem that I discovered in combination with the [Email-ext plugin](#): Sending emails to the logged-in user was not possible because a lookup operation in the Crowd server for details about a user failed.
- The Crowd user Id is now shown besides the display name of the logged-in user.
- Added more debug log messages.

The debug log messages are usually not shown in Jenkins' console output because they are logged with log level FINE or below. See [here](#) how to enable them (the plugin uses logger classes `de.thiet.jenkins.crowd.XXX`).

## Version 1.0 (Sep 23, 2011)

- Initial release