

Tomcat

Overview

How to install Tomcat

Requirements

Install Tomcat

In the interface

On the command line

Uninstall Tomcat

In the interface

On the command line

Configuration

Default configuration

Add Tomcat support for a user

In the interface

On the command line

Jailshell user considerations

Running Tomcat

Proxy an app with Apache JServ Protocol (AJP)

LiteSpeed Web Server

Differences between Tomcat in EasyApache 3 and EasyApache 4

Additional documentation

Overview

Note:

This document only applies to Tomcat in cPanel & WHM version 76 and later.

Apache Tomcat® allows you to serve Java-based applications. EasyApache 4 provides the option to install Tomcat 8.5.

For more information about the Apache Tomcat open-source project, visit the [Apache Tomcat website](#).

Important:

- We **strongly** recommend that only experienced Tomcat administrators install [Tomcat](#).
- Tomcat can present security issues on systems with multiple users. We **strongly** recommend that you understand the risks of this feature before you use it. For more information, read Tomcat's [Security Considerations](#) documentation.

How to install Tomcat

Requirements

Tomcat requires `root`-level access to install.

Install Tomcat

In the interface

To install Tomcat, use WHM's [EasyApache 4](#) interface (*WHM >> Home >> Software >> EasyApache 4*). Tomcat appears in the *Additional Packages* section.

On the command line

To install Tomcat, run the following command on the command line as the `root` user:

```
yum install ea-tomcat85
```

Uninstall Tomcat

In the interface

To uninstall Tomcat, use WHM's [EasyApache 4](#) interface (*WHM >> Home >> Software >> EasyApache 4*). Tomcat appears in the *Additional Packages* section.

On the command line

To uninstall Tomcat, run the following command on the command line as the `root` user:

```
yum remove ea-tomcat85
```

Configuration

In EasyApache 4, Tomcat runs as a per-user private instance. This increases security and allows the user to manage their own Tomcat services, but increases memory load on the server. We **strongly** recommend that you consider your server's configuration carefully before you enable Tomcat for many users. For more information, read our [Tomcat Private Instances](#) documentation.

Tomcat 8.5 places its configuration files in the following location, where `user` represents the name of the user for which you installed Tomcat:

```
/home/user/ea-tomcat85/conf
```

Default configuration

EasyApache 4 makes the following configuration changes to the default Tomcat 8.5 behavior in the `~/ea-tomcat85/conf/server.xml` file:

- Disable the shutdown port by default.
- Set the `xpoweredBy` attribute of all Connectors to a false value.
- Remove the `redirectPort` attribute.
- Add the `ErrorReportValue` class to all Hosts with the `showServerInfo` value set to a false value.
- Set the following Host attributes to a false value:
 - `autoDeploy`
 - `deployOnStartup`
 - `deployXML`

Note:

You may need to make additional security changes, depending on your system's Tomcat requirements. For more information, read Tomcat's [Security Considerations](#) documentation.

Add Tomcat support for a user

In the interface

To add Tomcat 8.5 support to a user, use WHM's [Tomcat Manager](#) interface (*WHM >> Home >> Software >> Tomcat Manager*).

On the command line

To add Tomcat 8.5 support to a user, run the following command as the `root` user:

```
/usr/local/cpanel/scripts/ea-tomcat85 [argument] [option]
```

The `/usr/local/cpanel/scripts/ea-tomcat85` script accepts the following arguments, where `user` represents the user you wish to change and `command` represents an argument for the script:

Argument	Description	Example
<code>add user</code>	Add Tomcat 8.5 support to a user.	<code>/usr/local/cpanel/scripts/ea-tomcat85 add user123</code>
<code>rem user</code>	Remove Tomcat 8.5 support from a user.	<code>/usr/local/cpanel/scripts/ea-tomcat85 rem user123</code>
<code>list</code>	View the users with a Tomcat 8.5 instance.	<code>/usr/local/cpanel/scripts/ea-tomcat85 list</code>
<code>hint [command]</code>	Display the abbreviated help information. Note: The <code>command</code> is optional. If you specify a command, only that command's abbreviated help information will display.	<code>/usr/local/cpanel/scripts/ea-tomcat85 hint add</code>
<code>help [command]</code>	Display the script's help information. Note: The <code>command</code> is optional. If you specify a command, only that command's help information will display.	<code>/usr/local/cpanel/scripts/ea-tomcat85 help</code>

Jailshell user considerations

Jailshell users **cannot** see the status of their previously started Tomcat service. The default jailshell permissions **only** allow users to view their current session's processes. If they attempt to restart an already active service with `ubic`, the system will launch a duplicate process.

You can address this behavior with one of the following actions:

- The system administrator can select *Always mount a full /proc* under the *Jailed /proc mount method* option of the *System* section of WHM's *Tweak Settings* interface (*WHM >> Home >> Server Configuration >> Tweak Settings*). If you enable this functionality, a jailshelled user can see **all** running processes. This can allow the jailshell user to break out of their shell.
- The system administrator can assign the user a normal shell.
- The system administrator can do nothing. We do **not** recommend this action, as it may cause confusion and the user may start duplicate processes.

Running Tomcat

Note:

Tomcat may take a long time to start to serve requests on initial startup. This usually happens on virtual machines. For suggestions of ways to start your Tomcat server faster, read the [Tomcat Faster Startup](#) documentation. System administrators **must** choose the solution that best fits their needs.

Custom configurations

When you add a user with either WHM's *Tomcat Manager* interface (*WHM >> Home >> Software >> Tomcat Manager*) or the `/usr/local/cpa`

`nel/scripts/ea-tomcat85` script, the script creates an environment that the user can configure for their unique requirements.

When you assign Tomcat access to a cPanel user, the script assigns two ports to the user. You can find these port assignments in the `/etc/cpanel/cpuser_port_authority.json` file and the user's `~/ea-tomcat85/conf/server.xml` file.

You **must** configure any custom behavior manually. To change how Tomcat interacts with Apache, edit or create the appropriate file in the `/etc/apache2/conf.d/userdata/` directory. For more information, read our [Advanced Apache Configuration](#) and [Modify Apache Virtual Hosts with Include Files](#) documentation.

Proxy an app with Apache JServ Protocol (AJP)

Tomcat 8.5 can use AJP to serve applications in EasyApache 4. For more information, read our [Tomcat Proxies](#) documentation.

LiteSpeed Web Server

Versions of LiteSpeed earlier than 5.3.5 (build 6) are **not** compatible with the `ProxyPassMatch` directive. This causes LiteSpeed to **not** proxy from the assigned port to port 80. Update your LiteSpeed server to a newer, compatible version or use the Tomcat instance's assigned port.

Differences between Tomcat in EasyApache 3 and EasyApache 4

EasyApache 3 handles Tomcat differently than EasyApache 4. EasyApache 4 provides Tomcat 8.5, rather than Tomcat 7.

In EasyApache 3, Tomcat existed as a shared service and all applications ran as the `tomcat` user. The server created a container within a shared `server.xml` file.

In EasyApache 4, Tomcat runs as a per-user private instance and allows the user to configure their instance themselves. Tomcat runs as the individual user, rather than as the `tomcat` user. This increases security and places management of the Tomcat instance in the user's control, but may affect your server's performance due to the memory requirements. For more information, read our [Tomcat Private Instances](#) documentation.

For more information about managing services in Tomcat, read our [The `cpuser_service_manager` script and the Uvic subsystem](#) documentation.

EasyApache 4 provides the `mod_proxy_ajp` Apache module rather than the `mod_jk` connector.

Additional documentation

Suggested documentation For cPanel users For WHM users For developers

- [The `cpuser_service_manager` script and the Uvic subsystem](#)
- [The `cpuser_port_authority` script](#)
- [Advanced Apache Configuration](#)
- [Modify Apache Virtual Hosts with Include Files](#)

Content by label

There is no content with the specified labels



- [Tomcat Private Instances](#)
- [Tomcat](#)
- [Tomcat Proxies](#)
- [EasyApache 4 Release Notes](#)
- [EasyApache 4 Recommendations](#)

- WHM API 1 Functions - ea4_tomcat85_rem
- WHM API 1 Functions - ea4_tomcat85_add
- WHM API 1 Functions - ea4_tomcat85_list
- WHM API 1 Functions - ea4_metainfo
- WHM API 1 Functions - php_set_vhost_versions