INSTALLING APACHE TOMCAT ON UBUNTU 18.04

Apache Tomcat is an open-source software implementation of the Java Servlet and Java Server Pages technologies. With this guide, you'll run applications within Tomcat using the OpenJDK implementation of the Java development environment.

Before You Begin

1. Ensure that your system is up to date and that you have completed the getting started guide. If you are new to Linux server administration, we recommend reviewing our beginner's guide and the article concerning systems administration basics.

2. Make sure you've followed our instructions for setting your hostname. Issue the following commands to make sure it is set properly:

```
hostname
hostname -f
```

The first command should show your short hostname, and the second should show your fully qualified domain name (FQDN).

3. You should also make sure your system is up to date. Enter the following command and install any available updates:

```
apt-get update && apt-get upgrade
```

> **Note**
> The steps in this guide require root privileges. Be sure to run the steps below as `root` or with the **sudo** prefix. For more information on privileges see our Users and Groups guide.

Install Apache Tomcat

1. Install Tomcat from the Ubuntu repository:

```
sudo apt-get install tomcat9
```

> **Note**
> OpenJDK will be installed as a dependency when you install the `tomcat9` package. The package `openjdk-11-jre-headless` is included with the `default-jre-headless` metapackage in Ubuntu.

2. You may also want to install the `tomcat9-docs`, `tomcat9-examples`, and `tomcat9-admin` tools which provide web-based applications that document, test, and allow you to administer Tomcat. You can install all three with the following command:

```
sudo apt-get install tomcat9-docs tomcat9-examples tomcat9-admin
```

3. Start the Tomcat service.

```
sudo systemctl start tomcat9
```

4. If you need to stop or restart Tomcat you can use the following commands, respectively:

```
sudo systemctl stop tomcat9
sudo systemctl restart tomcat9
```

Test and Use Tomcat

You can test your Tomcat installation by pointing your browser at your domain name, specifying port `8080`. For example, you might use `http://example.com:8080/`, replacing `example.com` with your domain name. Note that Tomcat listens on network port 8080 and does not accept forced HTTPS connections by default. By default, Tomcat configuration files are located in the `/var/lib/tomcat9/conf` directory.

Configure tomcat9-admin (optional)

If you installed the `tomcat9-admin` web application above, you can configure it by adding the following lines to the end of your `/var/lib/tomcat9/conf/tomcat-users.xml` file before the `</tomcat-users>` line, substituting your own username and secure password. If using Tomcat Admin, include both the "manager-gui" role for the manager and the "admin-gui" role for the host-manager application.

```
File: /var/lib/tomcat9/conf/tomcat-users.xml

1        <role rolename="manager-gui"/>
2        <role rolename="admin-gui"/>
3        <user username="username" password="password" roles="manager-gui,admin-gui"/>
```

Note
If you are not using the web application and plan to manage your application(s) from the command line only, you should not enter these lines, because doing so may expose your server to unauthorized login attempts.

Restart the Tomcat server, which will allow these changes to take effect:

```
sudo systemctl restart tomcat9
```

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Go to browser and enter <server-ip>:8080 and enter username and password.
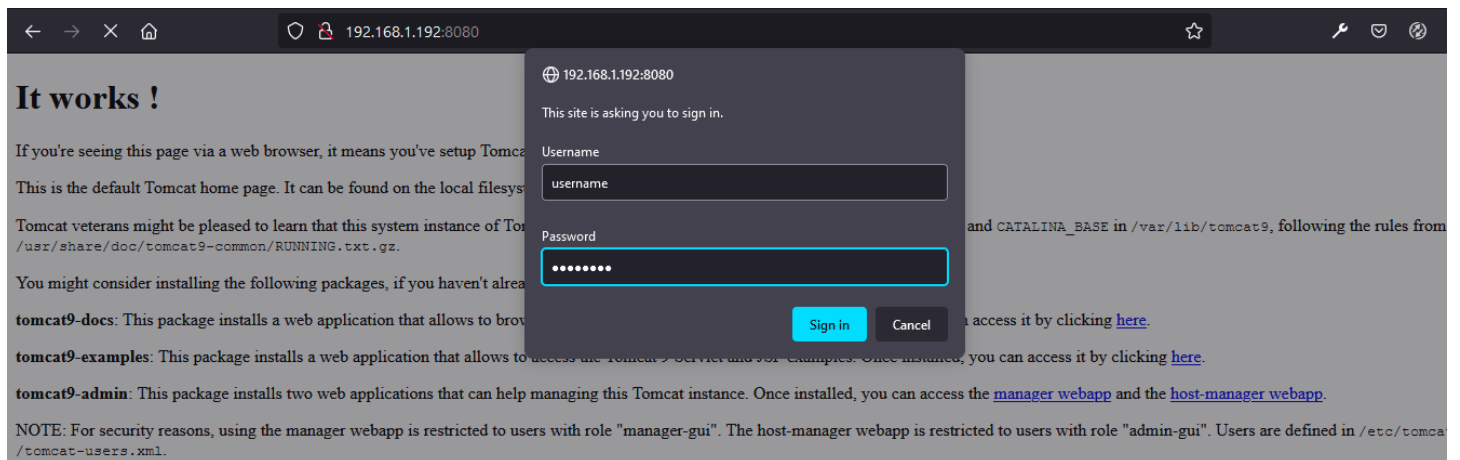
Build the mcsa web application into Web Archive or WAR file. Browse that WAR file to deploy the web app.

Below is the table of deployed web applications in tomcat. If the mcsa web app is successfully deployed, a row is added to Applications table with a /mcsa Path in it.

Tomcat Web Application Manager

Message:	OK

Manager

List Applications	HTML Manager Help	Manager Help	Server Status

Applications

Path	Version	Display Name	Running	Sessions	Commands
/	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes