

# Red Hat Enterprise Linux 8.XX

## Zflow Installation

**Only For RHEL Version 8.0 or Above**

## I. Installing Tomcat 9.0

For installation of Tomcat 9.0 follow the instructions mentioned here :

<https://www.tecmint.com/install-apache-tomcat-in-rhel-8/>

Once the Installation is done do make sure to do the following step. Add the following line to /usr/local/tomcat9/conf/context.xml :

```
<CookieProcessor className="org.apache.tomcat.util.http.LegacyCookieProcessor" />
```

It should look something like this

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
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-->
<!-- The contents of this file will be loaded for each web application -->
<Context>

    <!-- Default set of monitored resources. If one of these changes, the    -->
    <!-- web application will be reloaded.                                   -->
    <WatchedResource>WEB-INF/web.xml</WatchedResource>
    <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>

    <!-- Uncomment this to disable session persistence across Tomcat restarts -->
    <!--
    <Manager pathname="" />
    -->
    <CookieProcessor className="org.apache.tomcat.util.http.LegacyCookieProcessor" />
</Context>
```

## II. Installing Mysql 8.0.xx

For Installing and Configuring Mysql 8.0.xx, use the following steps provided in the Original documentation :

<https://www.tecmint.com/install-mysql-on-centos-8/>

### III. Installing Zflow

Go to the home directory of ec2-user and download ZFlow with the commands below

```
cd /home
```

Please send us an email or contact us for ZFlow distribution. ZFlow distribution is a tar file (zflow.tar.gz) that you can unzip and untar using the commands below

```
[ec2-user@ip-***** ~]$ gunzip zflow22.tar.gz  
[ec2-user@ip-***** ~]$ tar -xvf zflow22.tar
```

You should have the **zflow** directory with related application files listed once you have unzipped the file.

Move zflow directory to the webapps directory

```
sudo mv zflow /usr/local/tomcat9/webapps
```

Navigate to the /tomcat/webapps folder

```
cd /usr/local/tomcat9/webapps/
```

Change group and user ownership of zflow to tomcat

```
sudo chown -R tomcat:tomcat zflow
```

ZFlow configuration file is in the folder below. Navigate to the cfg folder using the command below

```
cd /usr/local/tomcat9/webapps/zflow/WEB-INF/classes/cfg
```

Use an editor (like vi or vim) to edit database configuration properties in the Configuration file

```
sudo vi ZFlowConfig.properties
```

Change the values of the database config properties as shown below. Use the actual names of the database user, database name and database password that you created in the MySQL section. Save changes to the file

```
DB_USER=userforzflowdatabase  
DB_URL=jdbc:mysql://localhost:3306/databaseforzflow  
DB_PASSWD=password_for_zflowdbuser
```

Since this is an initial install we should set the appropriate install properties to create the database tables as well as load initial data. Install properties file is in the folder below

```
cd /usr/local/tomcat9/webapps/zflow/WEB-INF/classes/inst
```

Use an editor (like vi or vim) to edit install properties file

```
sudo vi install.properties
```

Set the following install properties to true

```
INSTALL=true  
LOAD_SYS_DATA=true
```

Once this step is finished you can go back to the home directory and start tomcat server

```
sudo systemctl start tomcat
```

Once you've finished installing Zflow, there's one crucial step that needs to be done before the instance is launched.

You will need to navigate to :

```
cd /usr/local/tomcat9/webapps/zflow/WEB-INF/lib
```

and replace the **mysql-connector-java-5.0.xx.jar** connector with the latest **mysql-connector-java-8.0.xx.jar**

You can download the latest driver at this link <https://dev.mysql.com/downloads/connector/j/>

You can select the OS as platform independent and download and unzip it onto your local machine.

You can use Winscp or any other FTP client to access your machine and place the new <connector.jar> file onto the /tmp folder.

Once you have it on you machine navigate to the /tmp folder and use the command :

```
Sudo mv mysql-connector-java-8.0.xx.jar /usr/local/tomcat9/webapps/zflow/WEB-INF/lib
```

Then navigate to that folder using **mv /usr/local/tomcat9/webapps/zflow/WEB-INF/lib** and delete the older **mysql-connector-java-5.0.xx.jar** connector present there using the command :

```
Sudo rm -rf mysql-connector-java-5.0.xx.jar
```

Once this is done type in **reboot** and wait for the machine to be back up again.

ZFlow should be running now. You can go to *http://public\_ip\_of\_your\_ec2\_instance:8080/zflow* to complete the installation.