Red Hat Enterprise Linux 8.XX

Zflow Installation

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

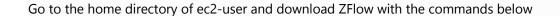
```
<?xml version="1.0" encoding="UTF-8"?>
  Licensed to the Apache Software Foundation (ASF) under one or more
  contributor license agreements. See the NOTICE file distributed with
  this work for additional information regarding copyright ownership.
  The ASF licenses this file to You under the Apache License, Version 2.0
  (the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at
      http://www.apache.org/licenses/LICENSE-2.0
  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
<!-- 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-mysgl-on-centos-8/

III. Installing Zflow



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 in 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.