TitleTomcat Configuration

Lunch an EC2 instance and connect to it.

#sudo -i

Tomcat requires java so first install java package using this command.

#yum install java* -y

```
Complete!
[root&ip-172-31-31-190 -]# java -version
openjdk version "21.0.2" 2024-01-16 LTS
OpenJDK Runtime Environment Corretto-21.0.2.14.1 (build 21.0.2+14-LTS)
OpenJDK 64-Bit Server VM Corretto-21.0.2.14.1 (build 21.0.2+14-LTS, mixed mode, sharing)
[root&ip-172-31-31-190 -]#
```

Download Apache Tomcat using this command.

#curl -O https://dlcdn.apache.org/tomcat/tomcat-8/v8.5.99/bin/apachetomcat-8.5.99.tar.gz

We need to extract the gzip file.

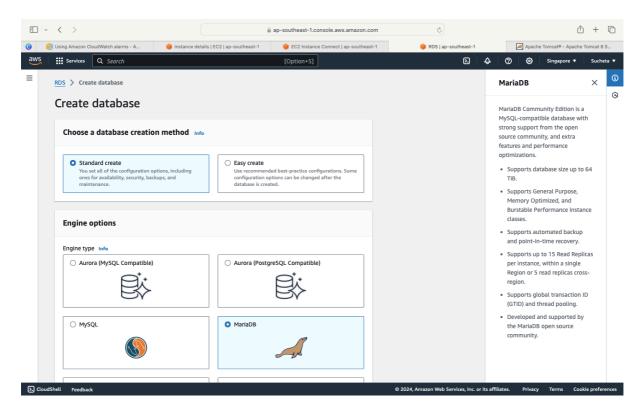
#tar -xvzf apache-tomcat-8.5.99.tar.gz

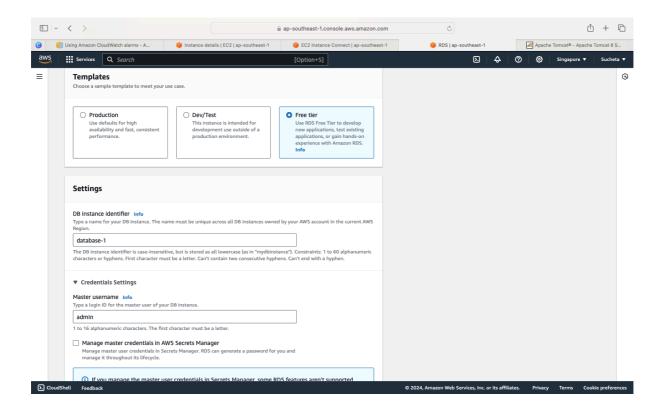
Remove gzip file.

#rm -rvf apache-tomcat-8.5.99.tar.gz

```
[root@ip-172-31-31-190 opt]# ls
apache-tomcat-8.5.99 apache-tomcat-8.5.99.tar.gz aws
[root@ip-172-31-31-190 opt]# rm apache-tomcat-8.5.99.tar.gz
rm: remove regular file 'apache-tomcat-8.5.99.tar.gz'? y
[root@ip-172-31-31-190 opt]# ls
apache-tomcat-8.5.99 aws
[root@ip-172-31-31-190 opt]#
```

Create RDS database and copy End point (This will take time to start so we are creating this simultaneously)

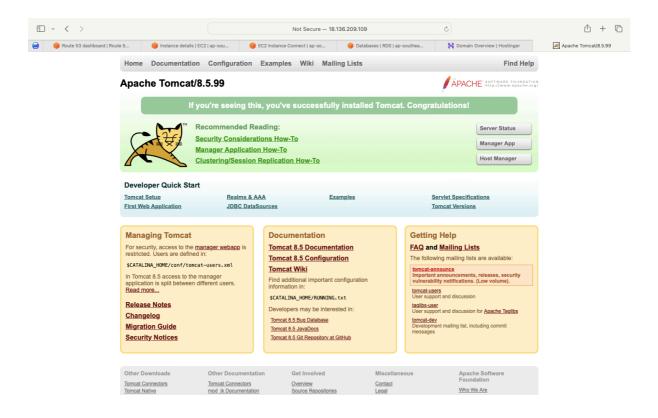




Move to /bin directory of Apache-tomcat #cd /opt/apache-tomcat-8.5.99/bin/

In Apache-Tomcat we need start catalina.sh bash catalina.sh start

Tomcat installation is successful, we can check that (http://18.136.209.109:8080) PublicIP:8080



In /lib directory of Apache-Tomcat we need to download mysql-connector.jar file using below command

#cd /opt/apache-tomcat-8.5.99/lib

#curl -O https://s3-us-west-2.amazonaws.com/mysql-connector.jar

```
[root@ip-172-31-31-190 lib]# curl -0 https://s3-us-west-2.amazonaws.com/mysql-connector.jar
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed

100 309 0 309 0 0 471 0 --:--:-- 471
[root@ip-172-31-31-190 lib]# ls
annotations-api.jar jaspic-api.jar tomcat-i18n-ja.jar
catalina-ant.jar jsp-api.jar tomcat-i18n-v.jar
catalina-ha.jar mysql-connector.jar tomcat-i18n-ru.jar
catalina-storeconfig.jar servlet-api.jar tomcat-i18n-zu.jar
catalina-tribes.jar tomcat-api.jar tomcat-jobc.jar
catalina.jar tomcat-coyote.jar tomcat-jobc.jar
catalina.jar tomcat-dbcp.jar tomcat-util-scan.jar
ecj-4.6.3.jar tomcat-i18n-ec.jar tomcat-util.jar
jasper-el.jar tomcat-i18n-es.jar tomcat-util.jar
jasper-jar tomcat-i18n-fr.jar websocket.jar
[root@ip-172-31-31-190 lib]#
```

In /webapps directory of Apache-Tomcat we need to download source code student.war file using below command.

#cd /opt/apache-tomcat-8.5.99/webapps

#curl -O https://s3-us-west-2.amazonaws.com/student.war

After that we need to mention our mysql username, password and RDS end point.

For that we can add below content to context.xml file in conf directory of Apache-Tomcat.

#vim /opt/apache.tomcat/conf/context.xml

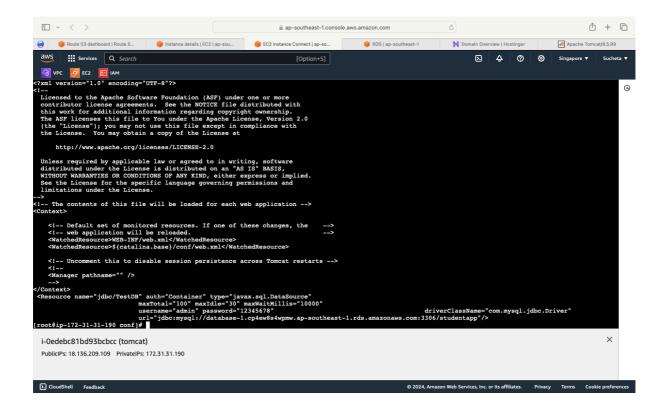
```
<Resource name="jdbc/TestDB" auth="Container" type="javax.sql.DataSource"

maxTotal="100" maxIdle="30" maxWaitMillis="10000"

username="admin" password="12345678"

driverClassName="com.mysql.jdbc.Driver"
```

url="jdbc:mysql://database-1.cp4ew8s4wpmw.apsoutheast-1.rds.amazonaws.com:3306/studentapp"/>



After that again stop and start catelina.sh file.

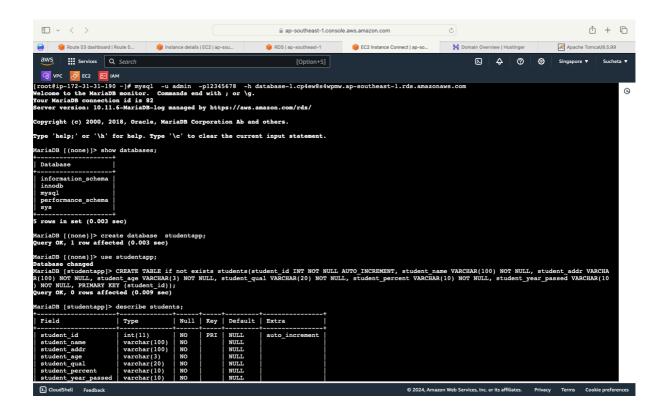
#bash catalina.sh stop

#bash catalina.sh start

For database we download mariadb-server using below command.

#yum install mariadb-server

#mysql -u admin -p12345678 -h database-1.<u>cp4ew8s4wpmw.ap-</u>southeast-1.rds.amazonaws.com





Add database using mysql command.

#bash catalina.sh stop

#bash catalina.sh start

Hit PublicIP:8080/student/ Fill the data and register.

Student ID	StudentName	Student Addrs	Student Age	Student Qualification	Student Percentage	Student Year Passed	Edit	Delete
1	Madhura	pune	22	12th	90.74	2021	edit	delete
	padmashri	kolhapur	21	12th	66	2017	edit	delete
	Yogeshree	kolhapur	21	11	78	2019	edit	delete
	MM	pune	21	12th	66	2017	edit	delete