**Project : Student App**

**GITHUB REPOSITORY LINK:**

<https://github.com/abhipraydhoble/Student-App-Project.git>

Prerequisite:

* Ec2 instance
* Java-1.8
* Tomcat
* Git
* RDS

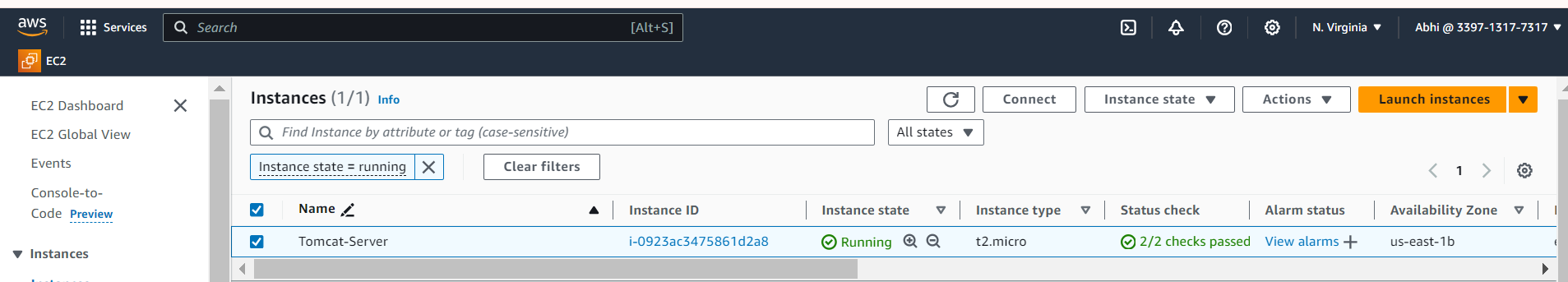
LAUNCH EC2 INSTANCE

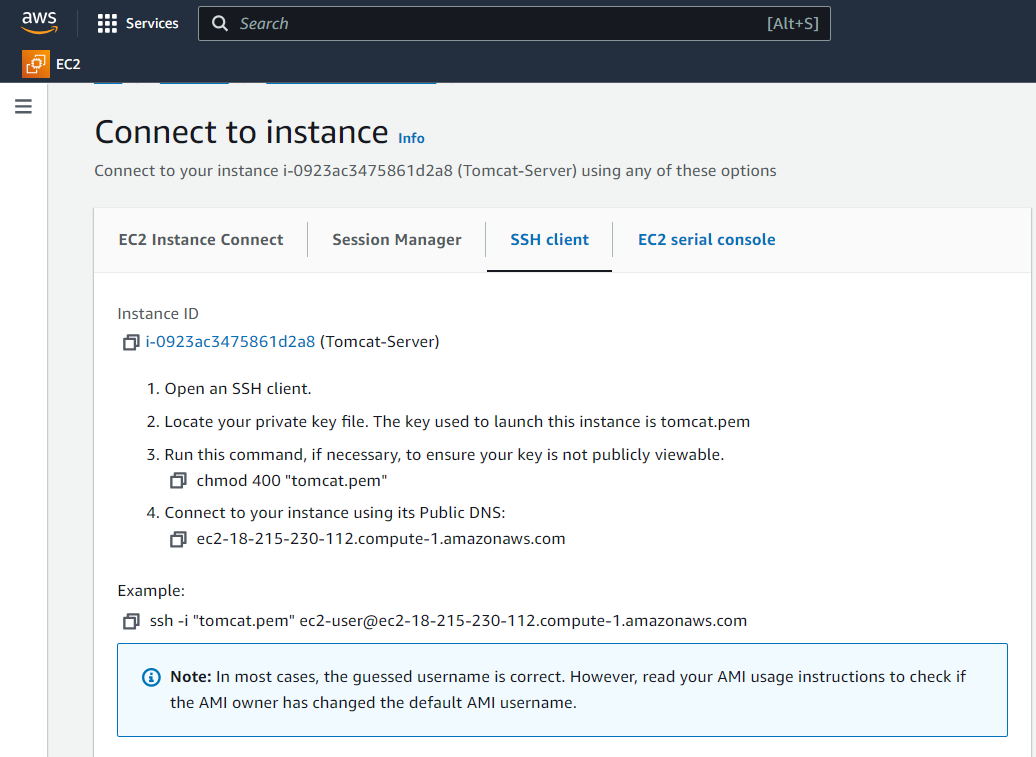
**Allow Ports security group:**

22 = SSH

8080 = Tomcat

3306 = Mysql / Mariadb

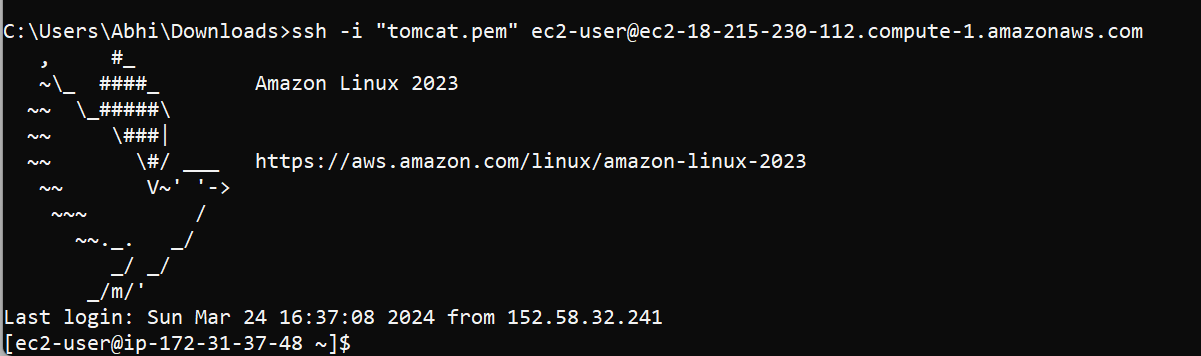




Connect to instance:

1. Connect Directly or
2. Open CMD or Git Bash

Go to directory where private key is downloaded

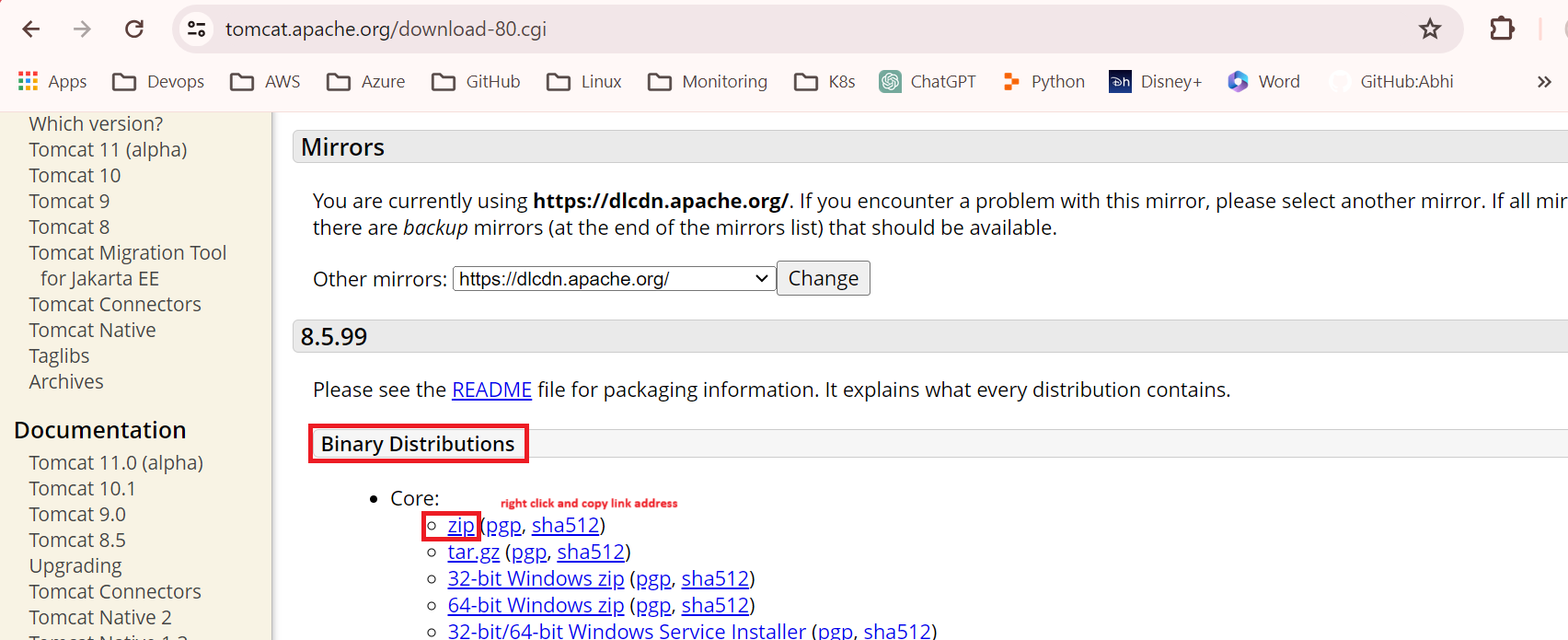


# sudo -i [use this command to switch as root user]

* java install-1.8

**# yum install java-1.8\* -y**

* **Install Tomcat**
* Search tomcat 8 download on browser



**# wget <https://dlcdn.apache.org/tomcat/tomcat->8/v8.5.99/bin/apache-tomcat-8.5.99.zip**

**# unzip apache-tomcat-8.5.99.zip**

**# cd apache-tomcat-8.5.99.zip**

**# cd bin**

* **[catalina.sh -->this file is neccessary to start tomcat]**

**# chmod +x catalina.sh [ give execute permission to file]**

**Start and Stop Tomcat using this command:**

**# sh catalina.sh start [** tomcat started ]

**# sh catalina.sh stop**

* **go to browser and public ip:8080**

**SETUP STUDENT APPLICATION**

**# yum install git -y**

**# git clone https://github.com/abhipraydhoble/Student-App-Project.git**

**# cd Student-App-Project**

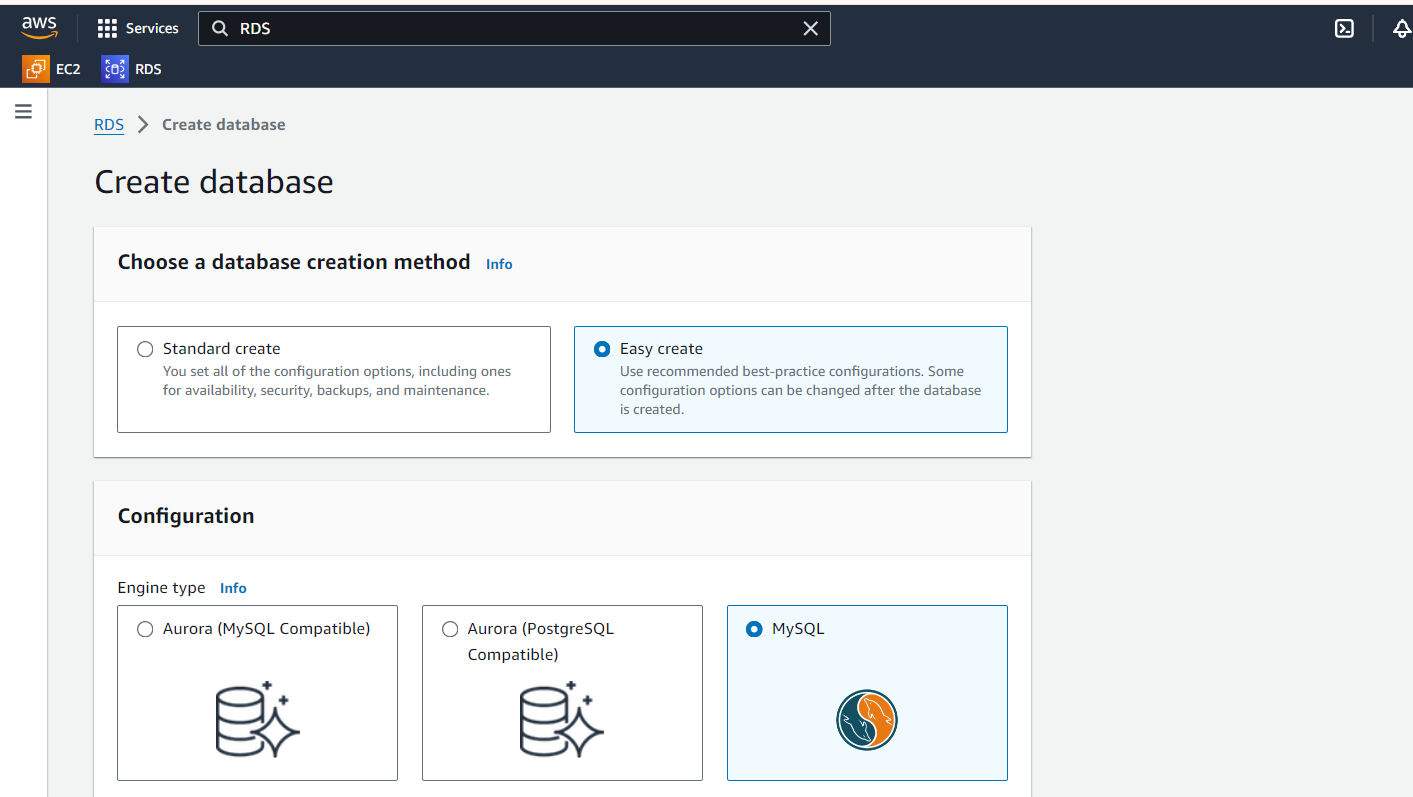
**\*\*\* Copy file from git directory to Tomcat \*\*\***

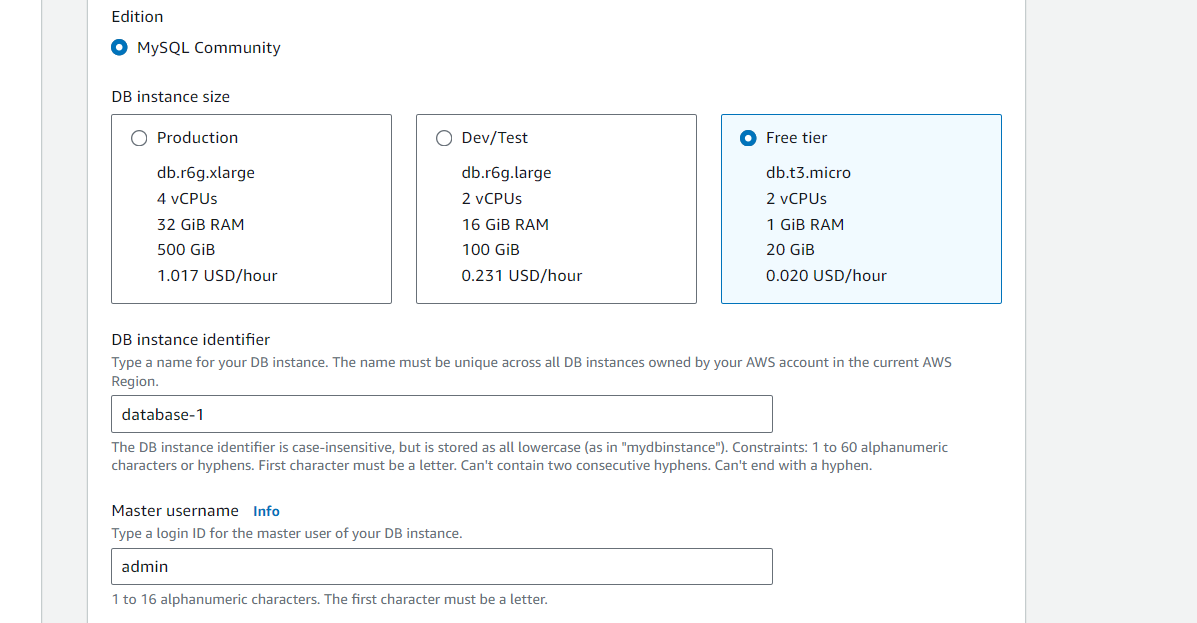
**# cp Student-App-Project/student.war apache-tomcat-8.5.93/webapps/**

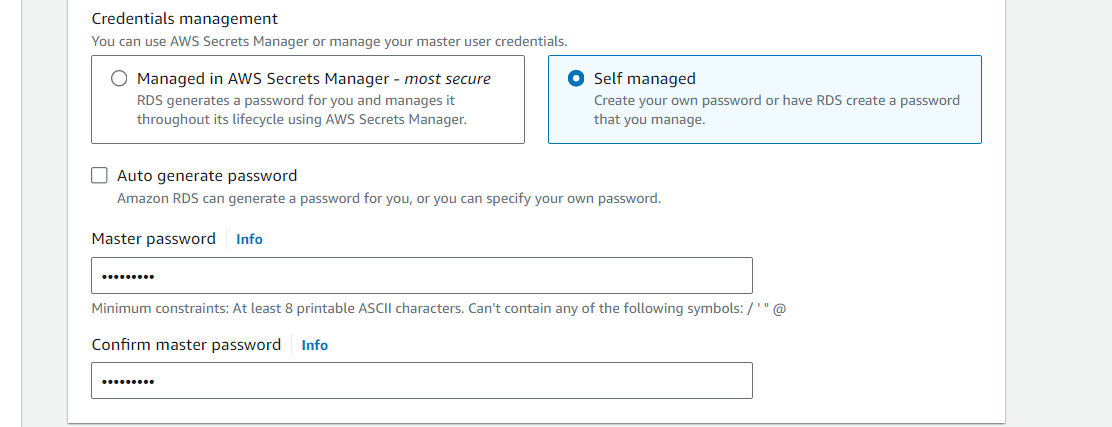
**# cp Student-App-Project/mysql-connector.jar apache-tomcat-8.5.93/lib/**

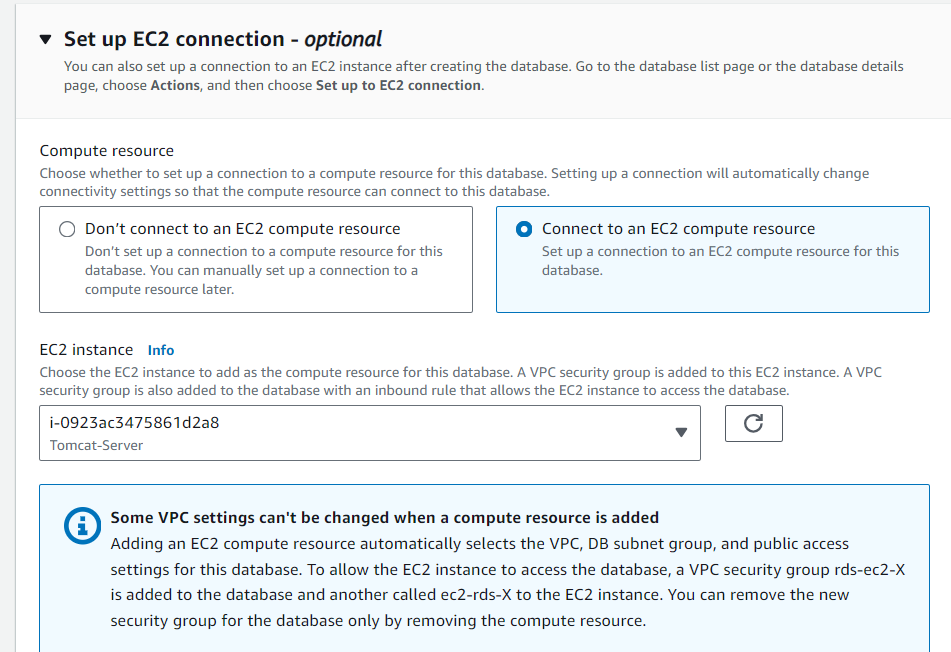
**SETUP DATABASE IN RDS:**

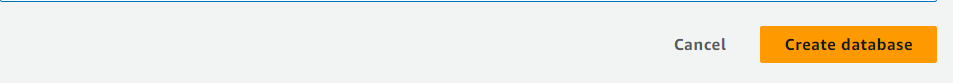
* **Go to RDS**

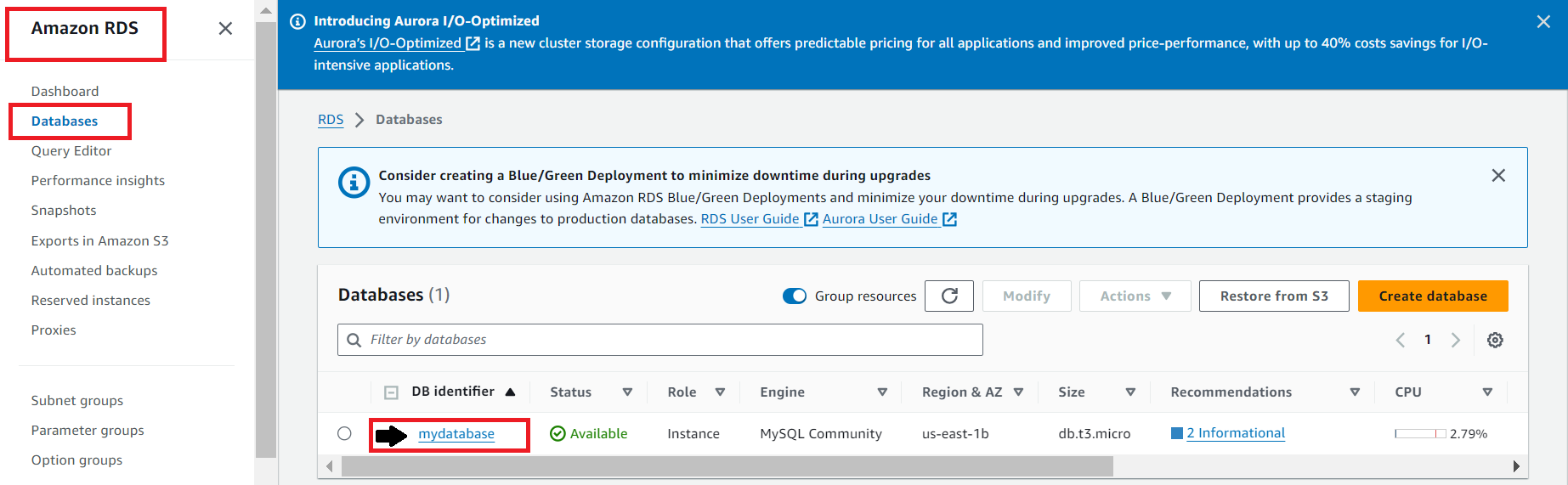


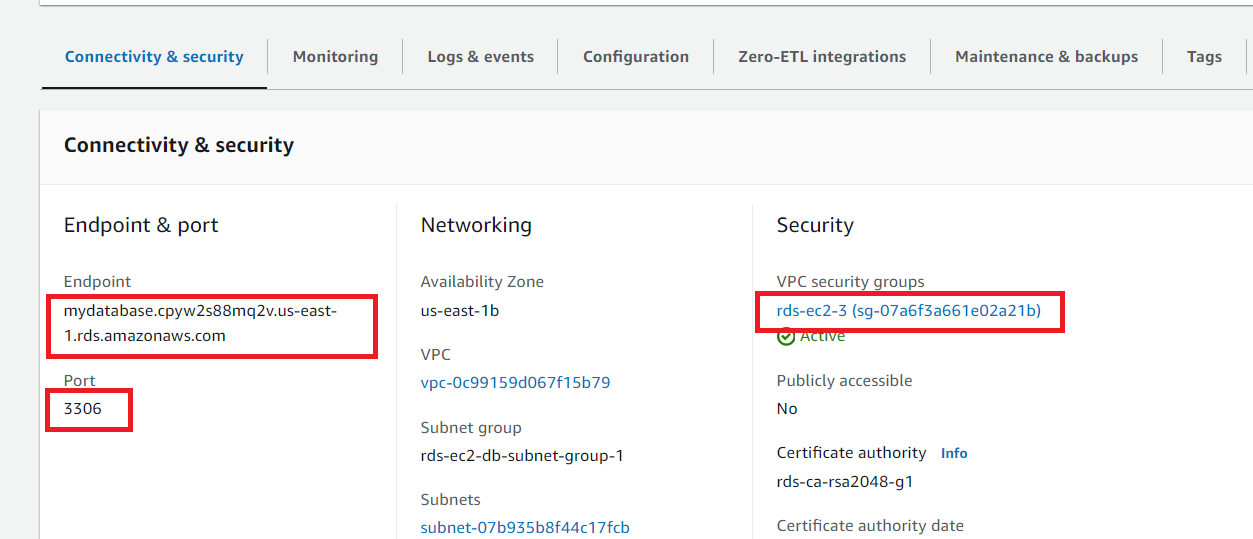


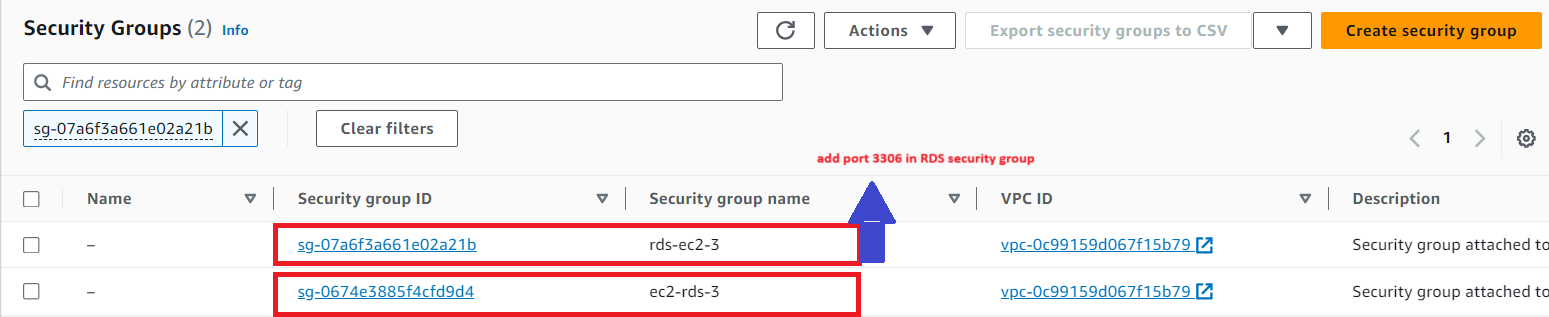










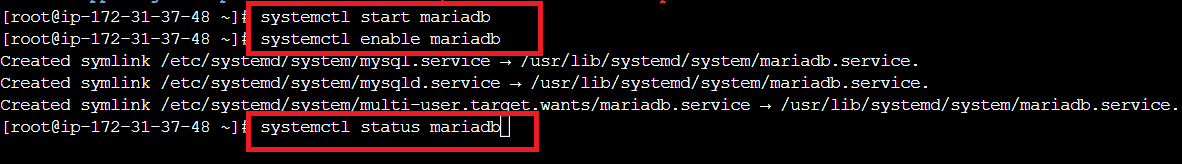


* download mariadb-server using below command
* dnf install mariadb105-server

systemctl start mariadb

* systemctl enable mariadb
* systemctl status mariadb





Log in into database

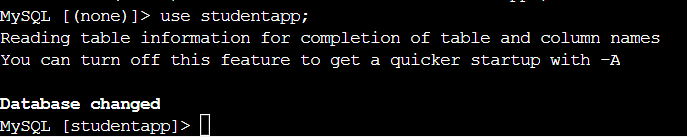


Create database with name studentapp

* Create database studentapp;
* Use studentapp;



Switch to newly created database



Run this query to create table:

CREATE TABLE if not exists students(student\_id INT NOT NULL AUTO\_INCREMENT,

student\_name VARCHAR(100) NOT NULL,

student\_addr VARCHAR(100) NOT NULL,

student\_age VARCHAR(3) NOT NULL,

student\_qual VARCHAR(20) NOT NULL,

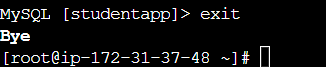
student\_percent VARCHAR(10) NOT NULL,

student\_year\_passed VARCHAR(10) NOT NULL,

PRIMARY KEY (student\_id)

);

Logout from database:



**MODIFY context.xml:**

# cd apache-tomcat-8.5.93/conf

# vim context.xml

add below line [connection string] at line 21

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

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

username="USERNAME" password="PASSWORD" driverClassName="com.mysql.jdbc.Driver"

url="jdbc:mysql://DB-ENDPOINT:3306/DATABASE"/>

* **Change**

Username

Password

DB-ENDPOINT

DATABASE Name

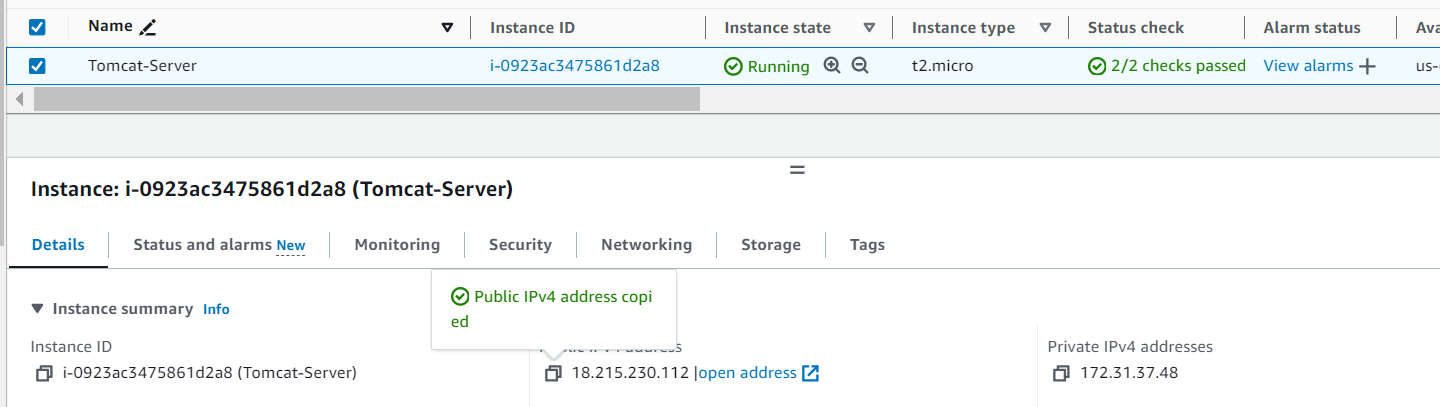
* **Start tomcat**

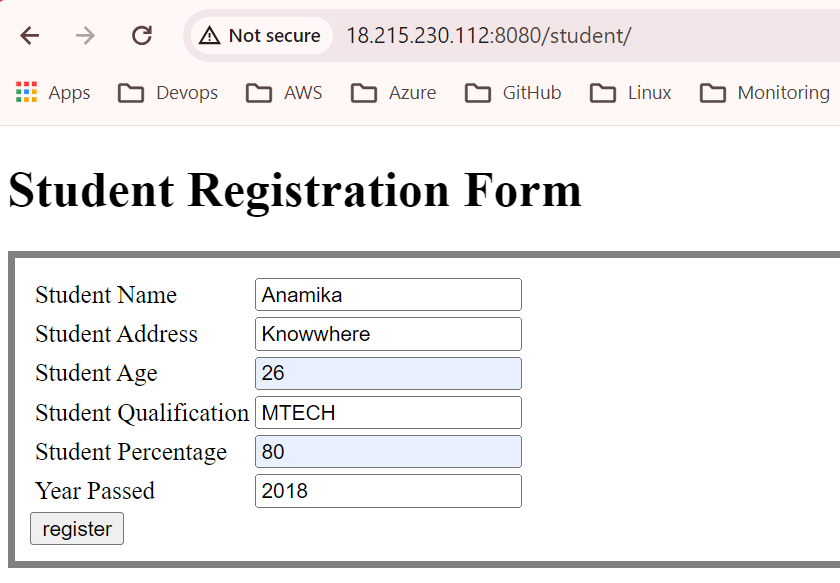
# cd apache-tomcat-8.5.93/bin

**# ./catalina.sh start** or **sh catalina.sh start**

* **google hit**

IP:8080/student





* **FINAL OUTPUT:**

