RDS instance with tomcat & mysql

**Steps**

Go to the **RDS**

**create rds**

**service -> rds -> databases -> create database**

standard create -> select **free tier**

**Master username : admin**

**Master password : Admin$123**

**Virtual private cloud (VPC) : vpc-default AZ:- 1a**

**VPC security group (firewall) -> create new -> vpc-RDS-sg**

**\*add below ports after create instance -> click on database -> click on Security VPC security groups -> inbound rule**

**http 80**  **all port in anywhere**

**mysql/aurora 3306**

**custom tcp 8080**

**ssh 22**

**#create instance**

**Amazon Linux**

**Network settings -> edit ->**

**vpc : default**

**subnet : 1a**

**Auto-assign public IP : enable**

**Select existing security group : vpc-one-sg**

**#go to git bash**

**ssh -i key.pem ec2-user@public ip of instance**

**yum update -y**

**yum install mariadb -y**

**mysql -h database-1.cl77p3lwlrcp.us-east-1.rds.amazonaws.com -u admin -p**

**Admin$123**

Now you enter the mariadb

**CREATE DATABASE student\_info;**

**use student\_jnfo;**

**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)**

**);**

**describe students;** students is the name of table

**exit**

#install tomcat only from below link (no updated version will work on with this project)

**Sudo yum update -y**

**Sudo yum install java-openjdk -y**

**Sudo wget** [**https://dlcdn.apache.org/tomcat/tomcat-8/v8.5.83/bin/apache-tomcat-8.5.83.tar.gz**](https://dlcdn.apache.org/tomcat/tomcat-8/v8.5.83/bin/apache-tomcat-8.5.83.tar.gz)

Now you see the file first unzip

**Sudo unzip apache-tomcat-8.5.83.tar.gz**

**cd /apache-tomcat-8.5.83/webapps/**

**sudo wget https://s3-us-west-2.amazonaws.com/studentapi-cit/student.war**

**cd /apache-tomcat-8.5.83/lib/**

**sudo wget https://s3-us-west-2.amazonaws.com/studentapi-cit/mysql-connector.jar**

**cd /apache-tomcat-8.5.83/conf/**

**sudo vim context.xml**

**at line no.21-> exact below <Context>**

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

**maxTotal="500" maxIdle="30" maxWaitMillis="1000"**

**username="admin" password="Admin$123" driverClassName="com.mysql.jdbc.Driver"**

**url="jdbc:mysql://database-1.cl77p3lwlrcp.us-east-1.rds.amazonaws.com:3306/student\_info?useUnicode=yes&amp;characterEncoding=utf8"/>**

**this dns is important go to the rds select databse see the endpoint copy the dns and put above the script**

this highlights is most important if you didn’t put the correct then your task not perform

**cd /apache-tomcat-8.5.83/bin/**

**sudo chmod +x Catalina.sh**

**sudo ./catalina.sh stop**

**sudo ./catalina.sh start**

**<instance public ip>:8080/student/ #go to browser and enter into address bar**

**Full fill the registration from**

**Save now you see the new page**

**But if you want to check the then go to the terminal**

**mysql -h database-1.cl77p3lwlrcp.us-east-1.rds.amazonaws.com -u admin -p**

**Admin$123**

**Show databases ;**

**Use student\_info**

**Select \* from students --- now you see the details when put the from**