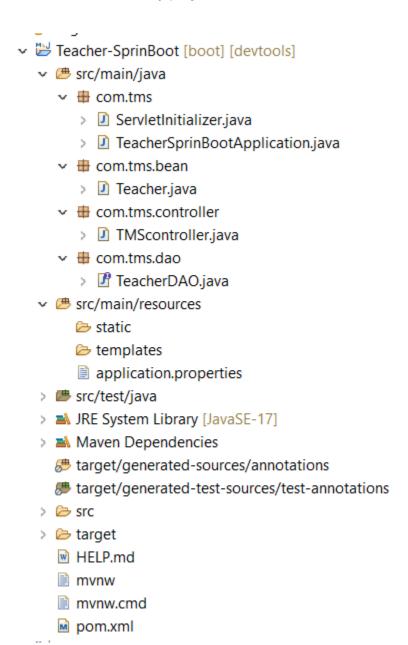
Cloud Computing-Assessment Jeban Ignesh J-11963

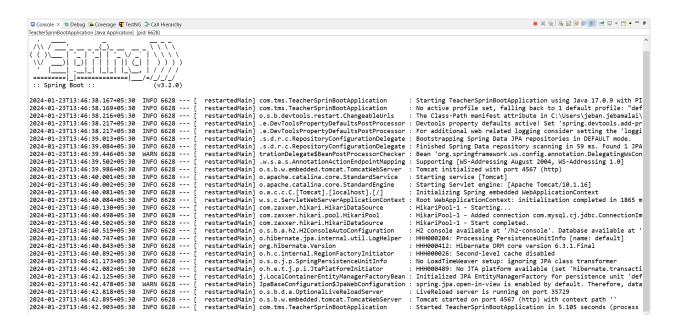
1.Problem Statement

A leading software company is developing a software application and the client wants you to deploy the application on cloud . The R&D team is working on the various solutions available for this requirement . You have been assigned the task of working with AWS Cloud EC2 feature:

- Am using my existing Spring Boot Project called Teacher Management System.
- I attached a screenshot for my project Structure below.



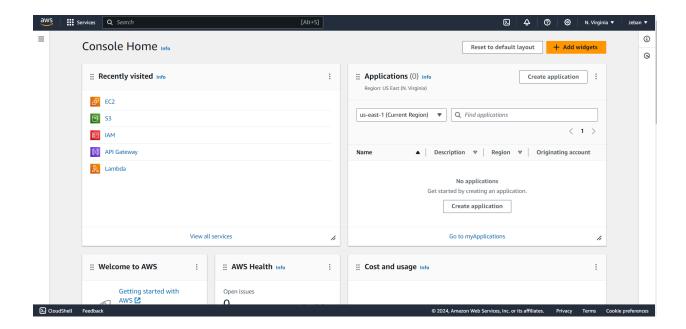
Step #1 : Make a maven web application , configure server runtime and verify your application is working.

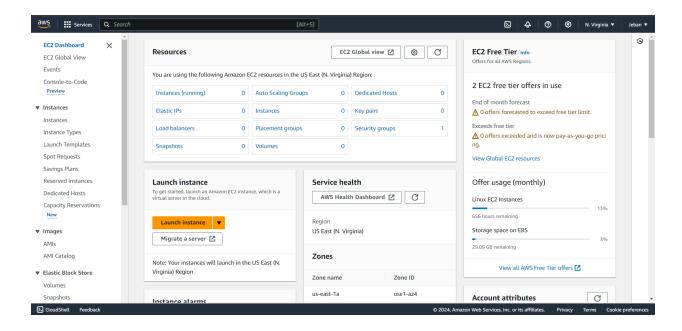


The application is working finely.

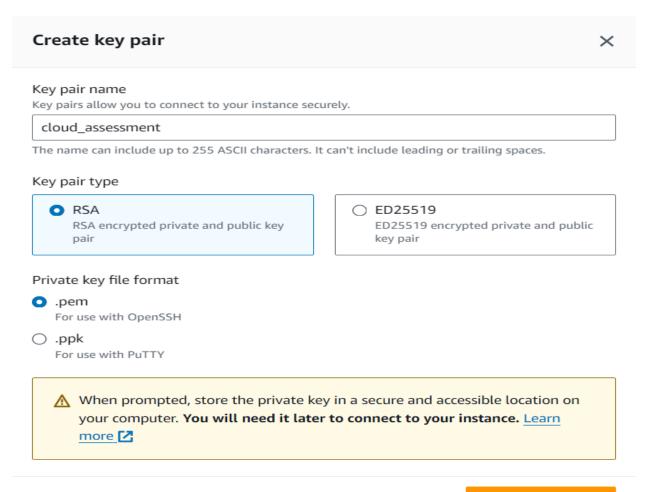
Step #2: Login to your AWS account and Create a new EC2 Instance.

Login AWS:

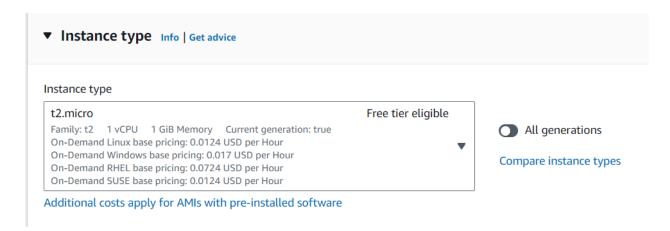




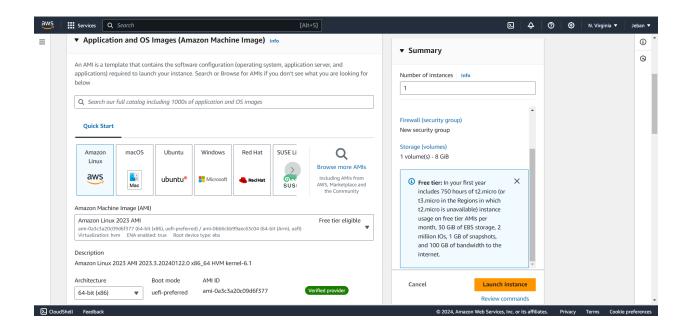
Creating Instance called clode_assessment:



Instance Type: t2.micro:



OS: Amazon Linux 2023 AMI xxx:



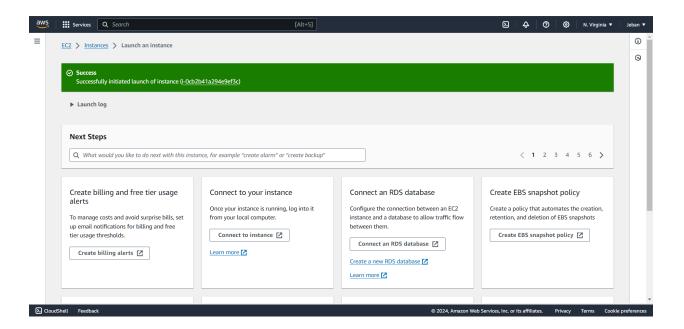
Zone: US East (N. Virginia)

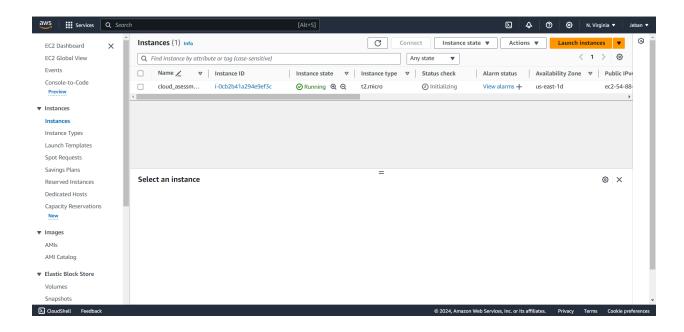


VPC: Default

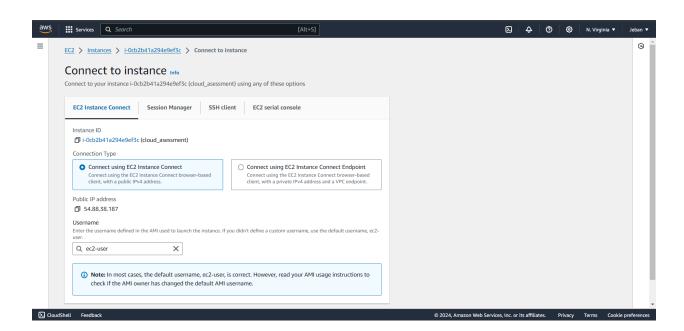
Key Pair: Create New

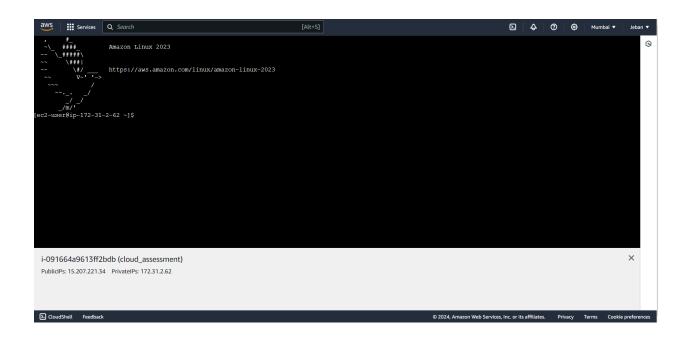
Successfully creating a new instance.





Step #3 : Configure your EC2 Instance and Connect to it.

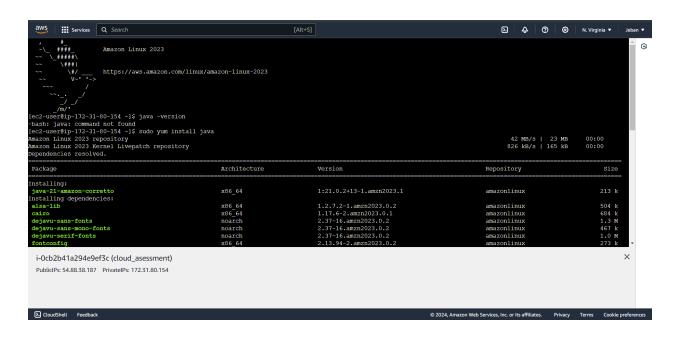


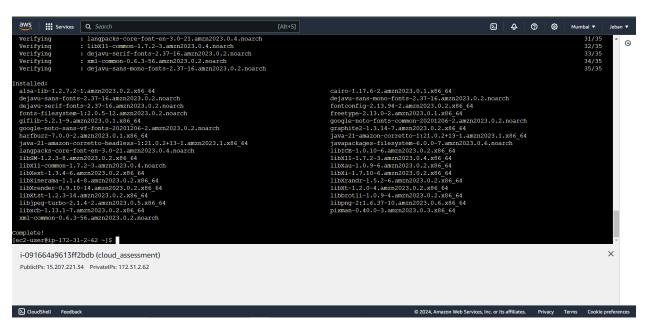


Step #4: Install JAVA and Tomcat Server inside EC2 Instance

```
[ec2-user@ip-172-31-2-62 ~]$ java -version -bash: java: command not found [ec2-user@ip-172-31-2-62 ~]$
```

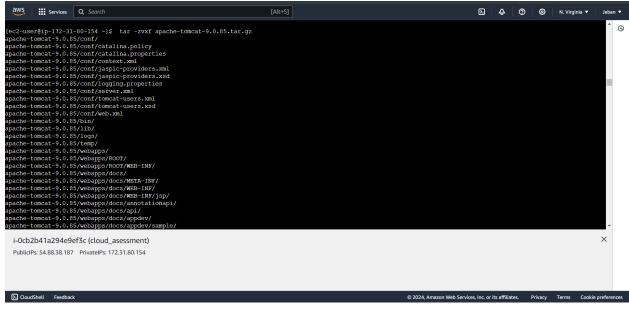
For Java installation I use sudo yum install java command

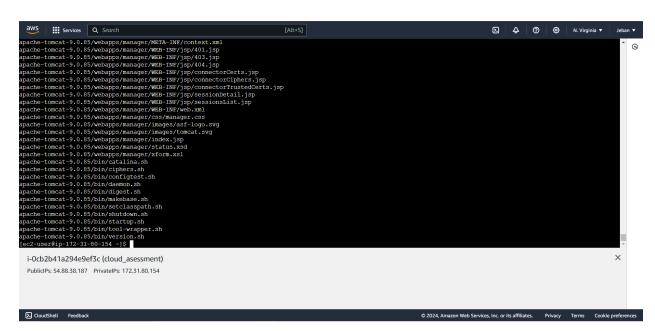




[ec2-user@ip-172-31-2-62 ~]\$ java -version
openjdk version "21.0.2" 2024-01-16 LTS
OpenJDK Runtime Environment Corretto-21.0.2.13.1 (build 21.0.2+13-LTS)
OpenJDK 64-Bit Server VM Corretto-21.0.2.13.1 (build 21.0.2+13-LTS, mixed mode, sharing)

Install Tomcat server:





```
[ec2-user@ip-172-31-80-154 ~]$ cd apache-tomcat-9.0.85/
[ec2-user@ip-172-31-80-154 apache-tomcat-9.0.85]$
```

```
[ec2_user@ip=172_31=80-154 ~]$ cd apache-tomcat=9.0.85/
[ec2_user@ip=172_31=80-154 apache-tomcat=9.0.85]$ cd bin/
[ec2_user@ip=172_31=80-154 bin]$ ./startup.sh

Using CATALINA_BASE: /home/ec2_user/apache-tomcat=9.0.85

Using CATALINA_HOME: /home/ec2_user/apache-tomcat=9.0.85

Using CATALINA_TMPDIR: /home/ec2_user/apache-tomcat=9.0.85/temp

Using JRE_HOME: /usr

Using CLASSPATH: /home/ec2_user/apache-tomcat=9.0.85/bin/bootstrap.jar:/home/ec2_user/apache-tomcat=9.0.85/bin/tomcat-juli.jar

Using CATALINA_OPTS:
Tomcat started.
```

Step #5: Copy your Project WAR file into the EC2 Instance Tomcat's WebApp folder

Note: Either use WinSCP/Putty or Upload to S3 and copy to Ec2

