LAB ASSIGNMENTS 1: Spring boot application on EC2 instance

Instruction:

- 1. create aws account
- 2. aws iam user
- 3. Create EC2 instance as demonstrated in the session
- 4. Run spring boot application on EC2 instance



This project demonstrates the creation of a simple Spring Boot Java project using Maven. It starts with generating project structure via Spring Initializr. Then, it guides through creating Java source code. Next, it involves setting up an EC2 instance on AWS and connecting via MobaXterm. Configurations are done to ensure Maven works, followed by verifying Maven by compiling and building the Java code on EC2. This hands-on project provides practical insights into Maven, AWS setup, and Java project management in a cloud environment.

Learning Outcomes

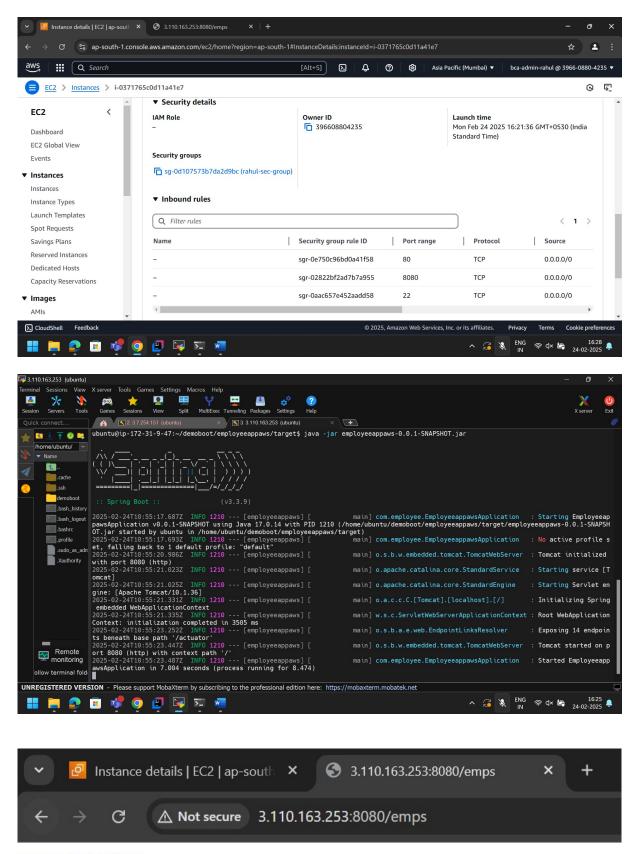
- •Gain proficiency in setting up a Spring Boot Java project using Maven.
- •Understand the process of generating project structure with Spring Initializr.
- •Learn to write and manage Java source code within a Spring Boot project.
- •Acquire skills in setting up and configuring an EC2 instance on AWS.
- •Develop competency in connecting to an EC2 instance using MobaXterm.
- •Learn to install and configure Maven on an EC2 instance.
- •Practice compiling and building Java code using Maven on a remote server.
- •Gain insights into cloud-based development workflows and infrastructure management.

- •Enhance problem-solving skills by troubleshooting and resolving configuration issues.
- •Develop a deeper understanding of software development best practices within a cloud environment.

Building a Simple Spring Boot Java Project on AWS EC2 Using Maven

Cloned the spring boot project

```
demoboot
ubuntu@ip-172-31-9-47:~$ cd demoboot
ubuntu@ip-172-31-9-47:~/demoboot$ ls
employeeappaws
ubuntu@ip-172-31-9-47:~/demoboot$ cd employeeappaws/
ubuntu@ip-172-31-9-47:~/demoboot/employeeappaws$ ls
mvnw mvnw.cmd pom.xml src target
ubuntu@ip-172-31-9-47:~/demoboot/employeeappaws$
```



emp v4: LOCAL