

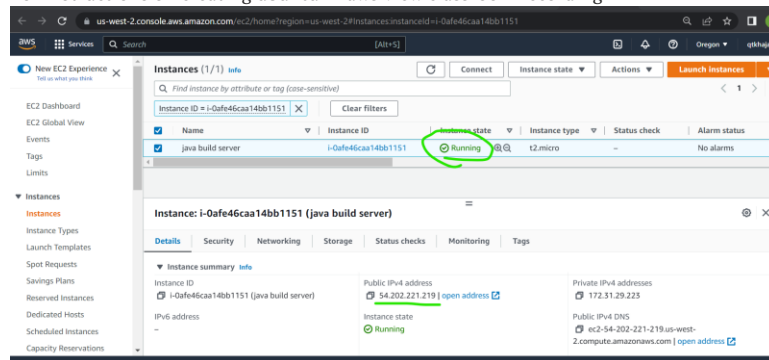


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DevOps Classroomnotes 03/Feb/2023

Manually Building a Java Project

- Lets try to build a Java Project
- To build this project we need
 - git
 - Java 11
 - Maven latest version
- Manual Steps:
 - Ubuntu Virtual Machine in AWS Free tier (t3.micro/t2.micro)
 - For instructions on creating ubuntu in aws view classroom recording



- To connect ssh -i <path to private key> ubuntu@<public ip>
- In the current vm, we have git but we need to install java and maven

```
ubuntu@ip-172-31-29-223:~$ git --version
git version 2.34.1
ubuntu@ip-172-31-29-223:~$ java -version
Command 'java' not found, but can be installed with:
sudo apt install openjdk-11-jre-headless # version 11.0.17+8-1ubuntu2~22.04, or
sudo apt install default-jre # version 2:1.11-72build2
sudo apt install openjdk-17-jre-headless # version 17.0.5+8-2ubuntu1~22.04
sudo apt install openjdk-18-jre-headless # version 18.0.2+9-2~22.04
sudo apt install openjdk-19-jre-headless # version 19.0.1+10-1ubuntu1~22.04
sudo apt install openjdk-8-jre-headless # version 8u352-ga-1~22.04
ubuntu@ip-172-31-29-223:~$ mvn --version
Command 'mvn' not found, but can be installed with:
sudo apt install maven
ubuntu@ip-172-31-29-223:~$
```

- Commands


```
sudo apt update
sudo apt install openjdk-11-jdk -y
sudo apt install maven -y
java -version
mvn --version
```
- To install java [Refer Here](#)
- Commands to get the code and build the package


```
git clone https://github.com/spring-guides/gs-maven.git
cd gs-maven/initial
mvn package
```

- Code: [Refer Here](#)
- Build step: mvn package
- artifact: gs-maven-0.1.0.jar

```
ubuntu@ip-172-31-29-223:~/gs-maven/initial$ ls
mvnw  mvnw.cmd  pom.xml  src  target
ubuntu@ip-172-31-29-223:~/gs-maven/initial$ ls target/
classes          gs-maven-0.1.0.jar  maven-status
generated-sources  maven-archiver      original-gs-maven-0.1.0.jar
ubuntu@ip-172-31-29-223:~/gs-maven/initial$
```

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