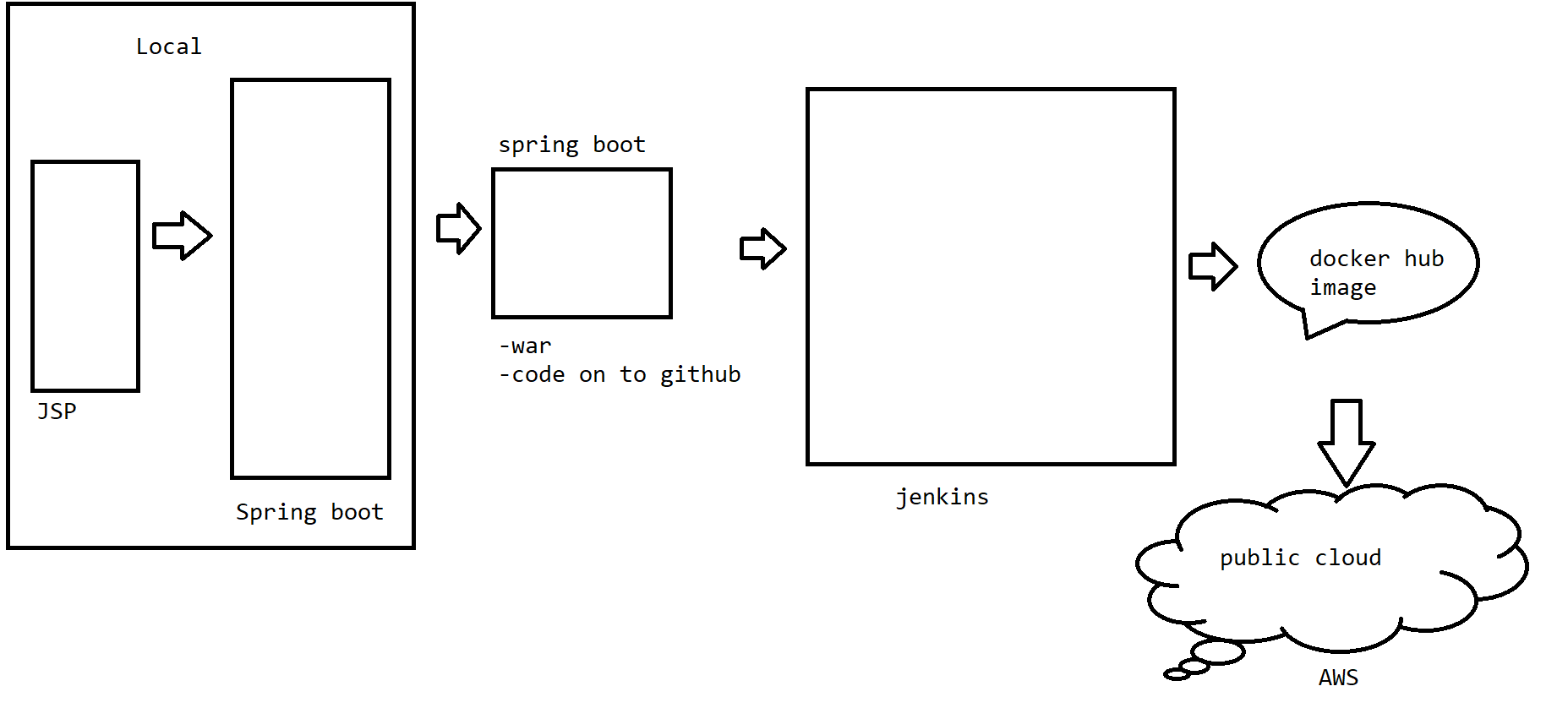


-FE

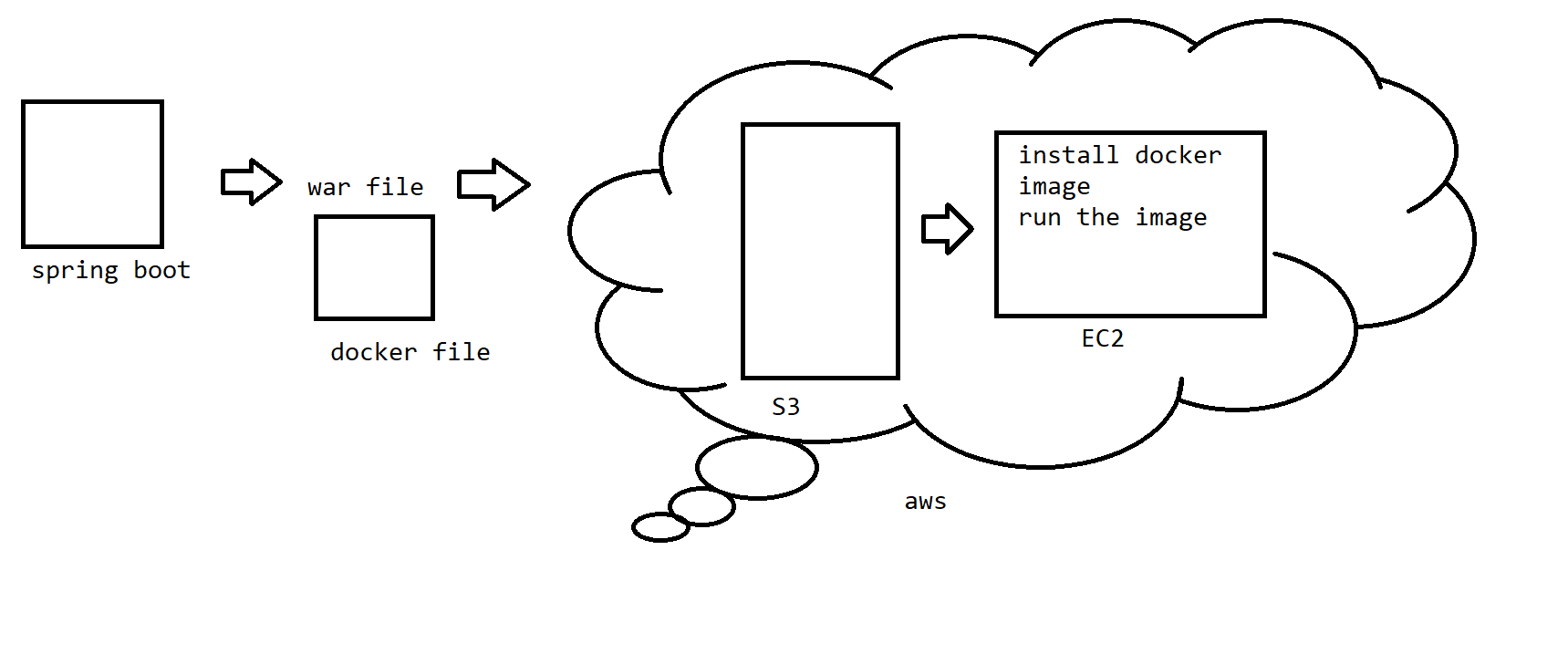
-BE

-DevOps->github->jenkins->docker->aws

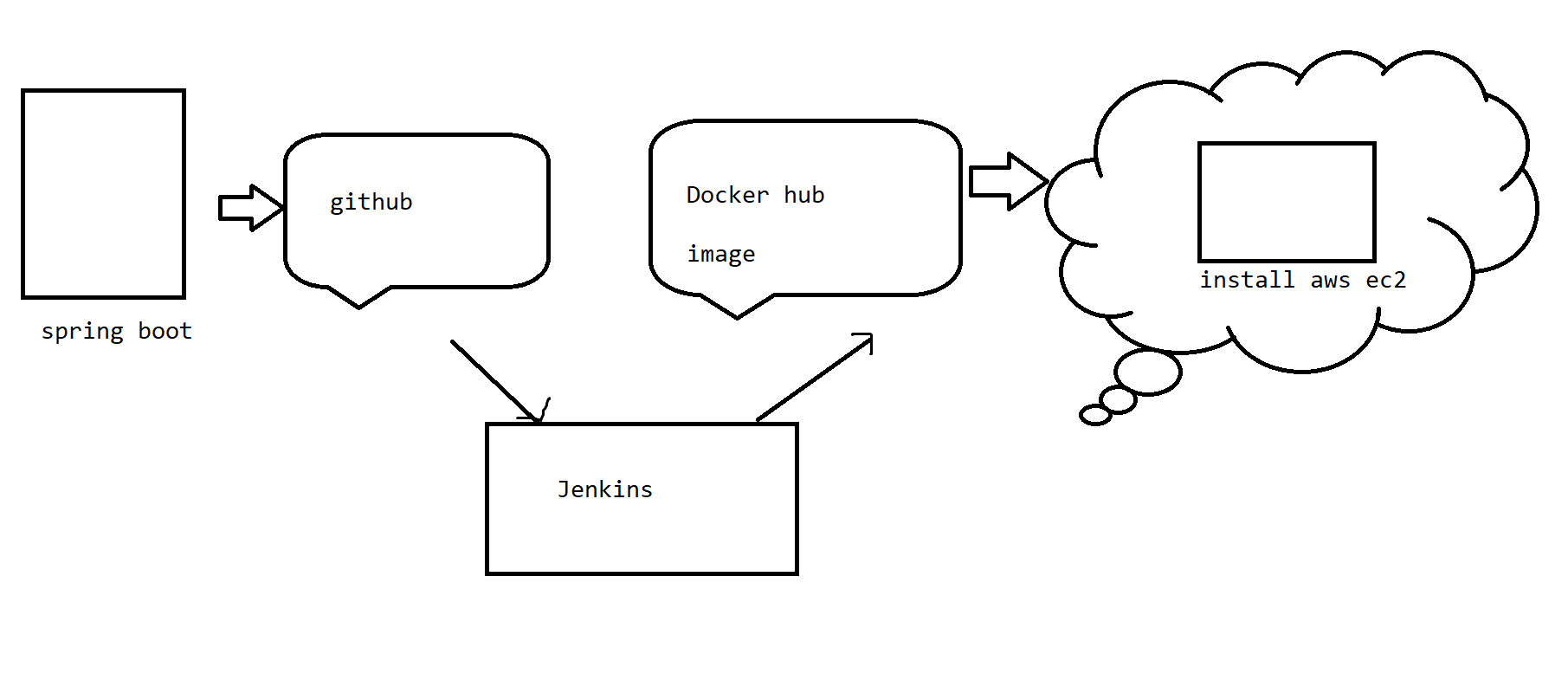
-Testing-Selenium + TestNg / Junit



Process -1



Process -2



//Take any spring boot application on your local with the JPA database

1. Change the service name of the dB in the properties file that you have configured on the aws cloud.

#server

server.port=8088

#Jpa hibernate

spring.jpa.hibernate.ddl-auto=update

spring.jpa.hibernate.show-sql=true

spring.jpa.hibernate.dialect=org.hibernate.dialect.MySQLDialect

#datasource

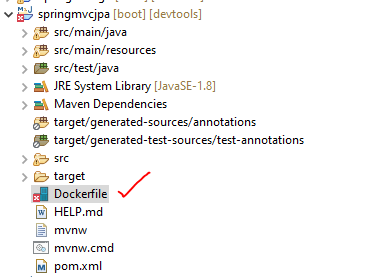
spring.datasource.driver-class-name=com.mysql.jdbc.Driver

spring.datasource.url=jdbc:mysql://docker-mysql:3306/db7

spring.datasource.username=root

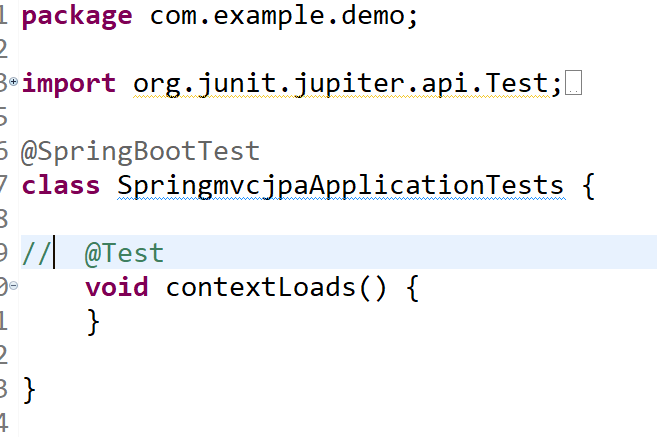
spring.datasource.password=123456

1. Configure the docker file which is required to make this entire application an image of the docker type



If the build failed :





Docker file -

From openjdk:8

EXPOSE 8088

Add springmvcjpa-0.0.1-SNAPSHOT.war springmvcjpa-0.0.1-SNAPSHOT.war

ENTRYPOINT ["java","-jar","/springmvcjpa-0.0.1-SNAPSHOT.war"]

1. Push the code on to github

* git init
* git add .
* git commit -m "Add existing project files to Git"
* git remote add origin **https://github.com/kkarthik46/herbatch.git**
* git push -u -f origin master

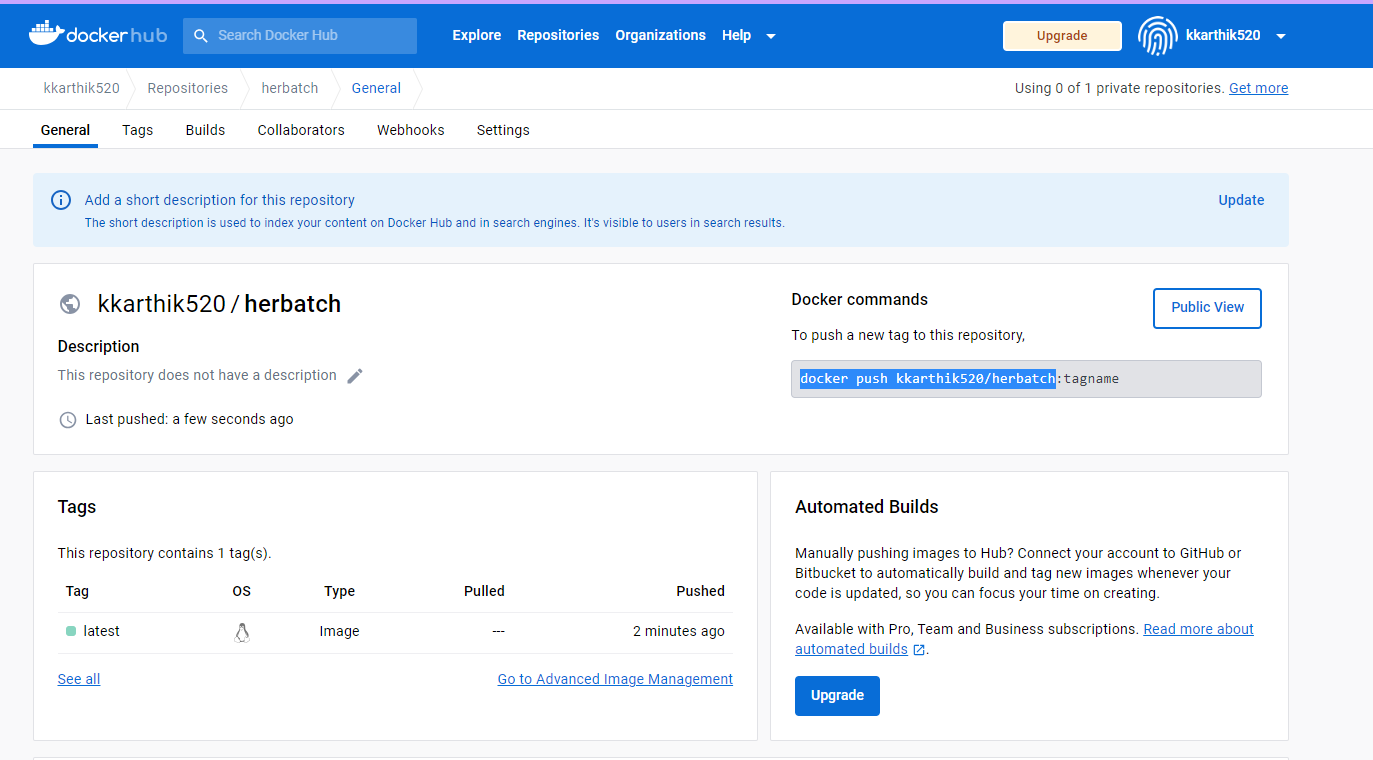
<https://github.com/kkarthik46/herbatch>

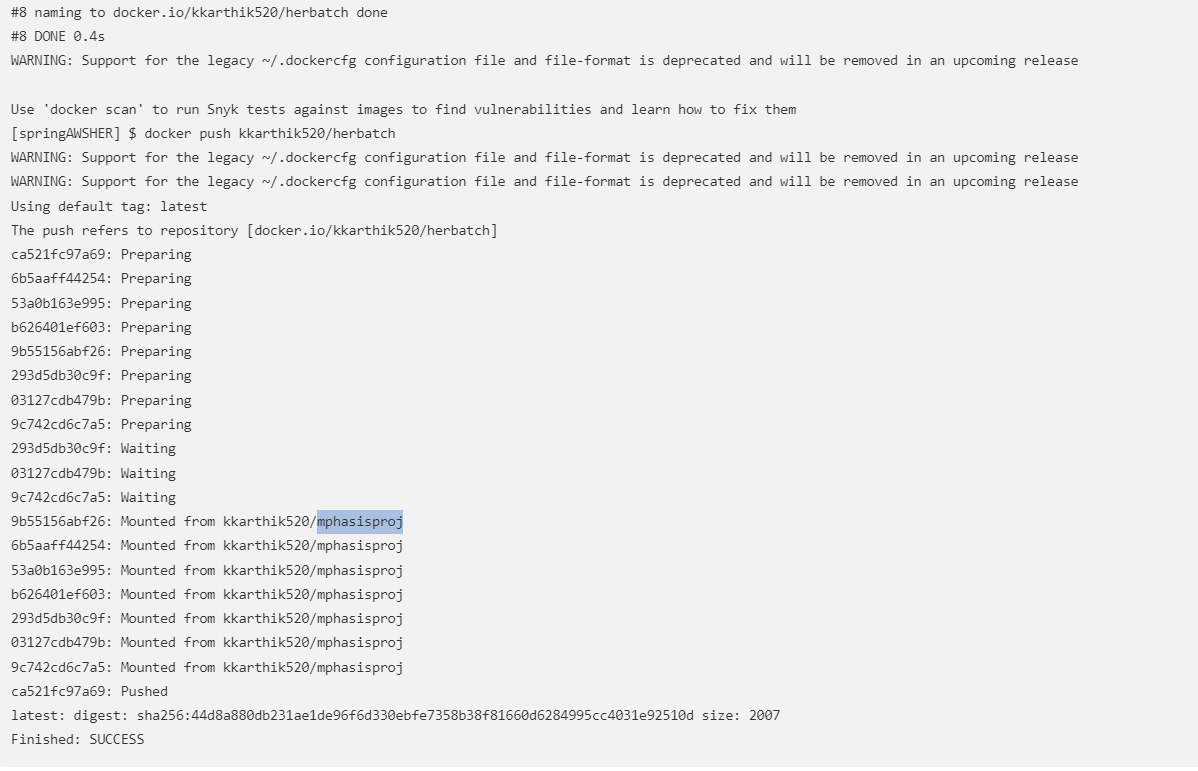
//Jenkins

Username : admin

Password :

C:\ProgramData\Jenkins\.jenkins\secrets





-Jenkins

<https://phoenixnap.com/kb/install-jenkins-on-windows>

<https://phoenixnap.com/kb/install-jenkins-on-mac>

-Docker

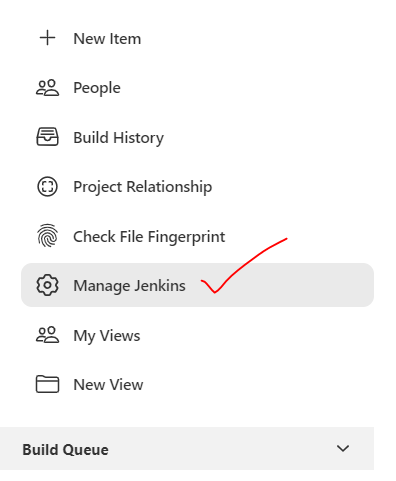
<https://www.geeksforgeeks.org/how-to-install-docker-on-windows/>

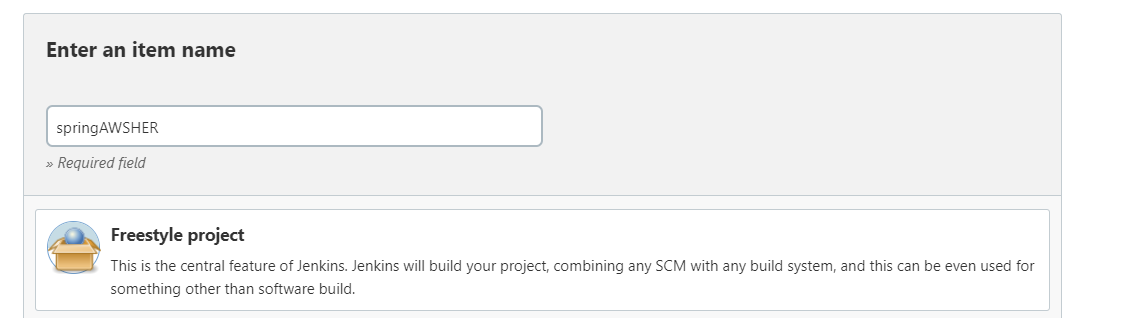
<https://docs.docker.com/desktop/install/mac-install/>

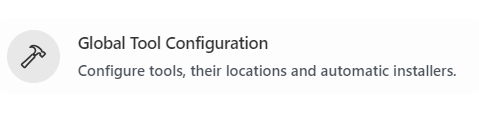
-AWS on Simplilearn portal

Java 11

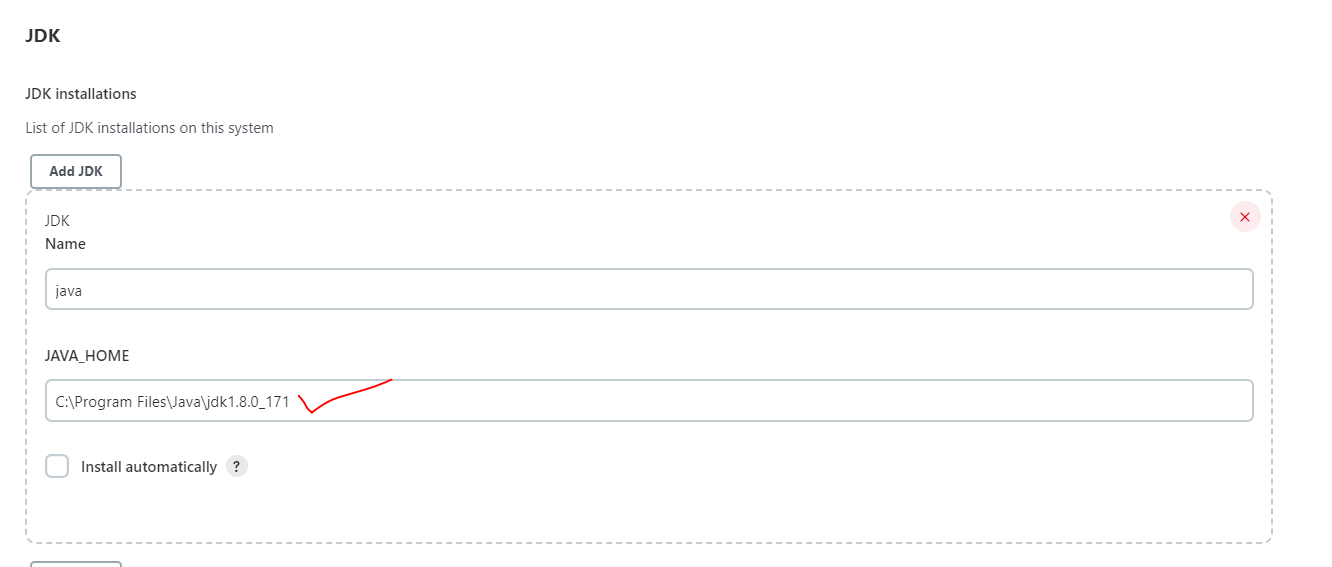
<https://www.oracle.com/in/java/technologies/javase/jdk11-archive-downloads.html>

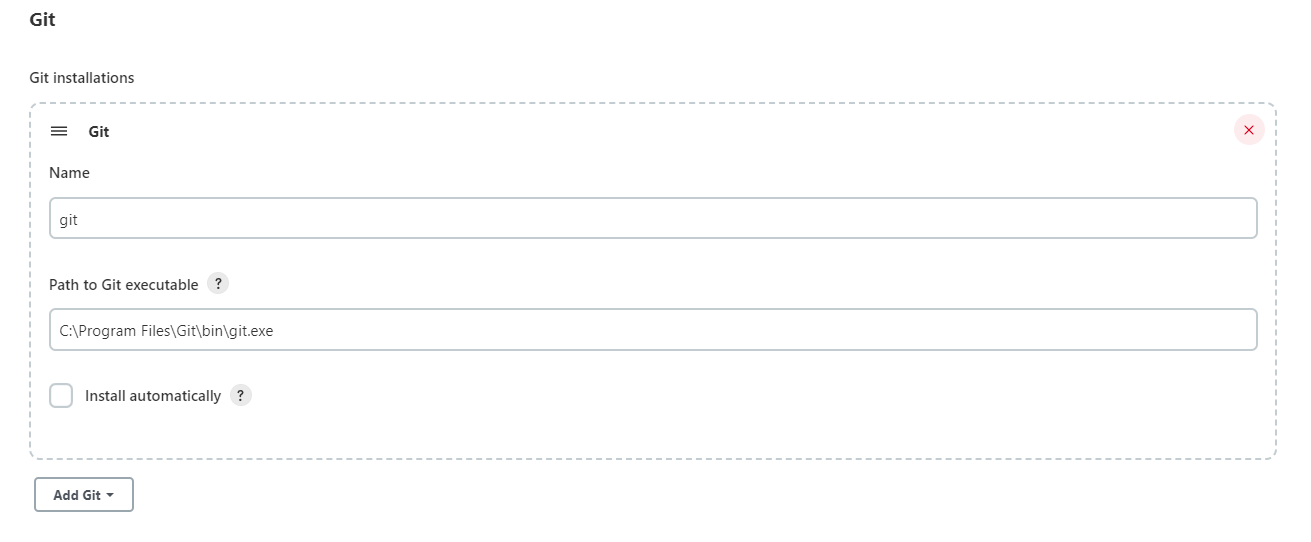


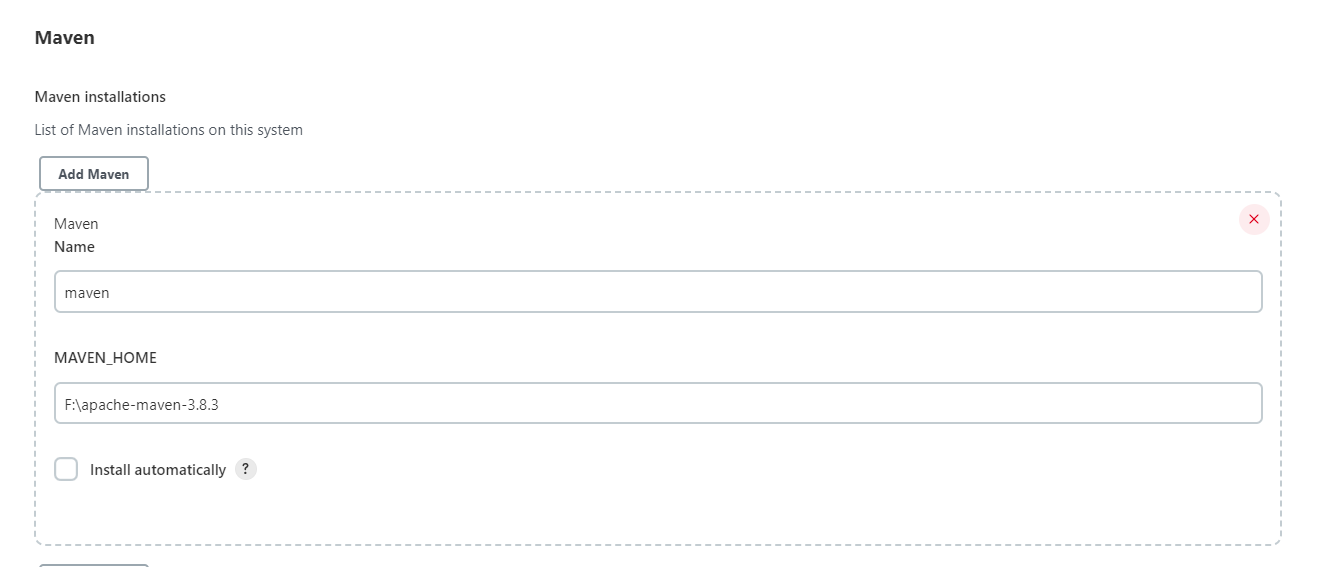




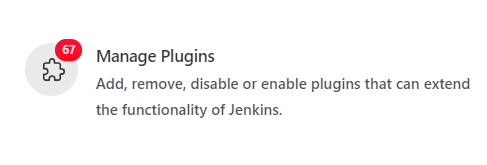
JAVA , GIT , MAVEN

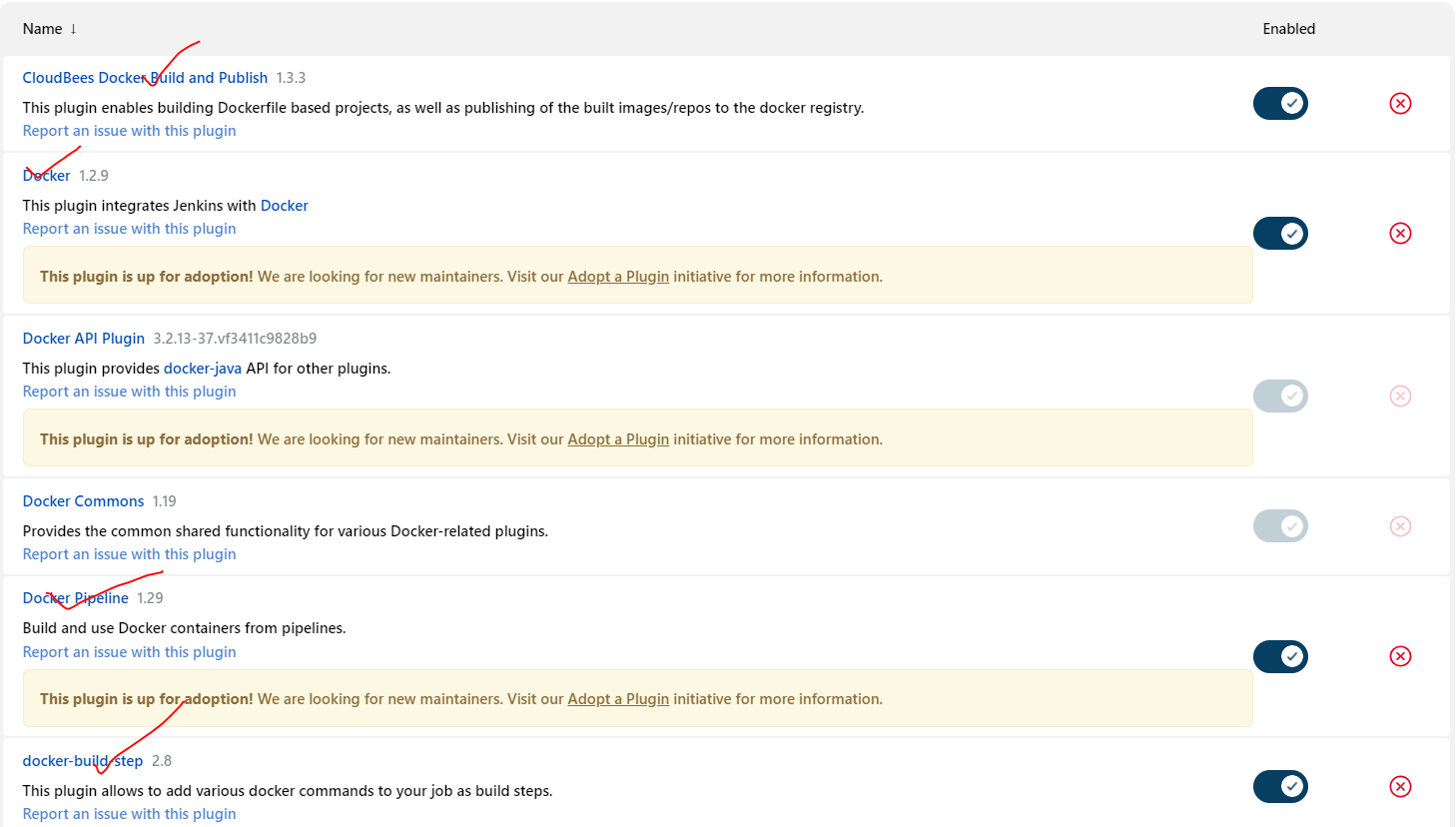


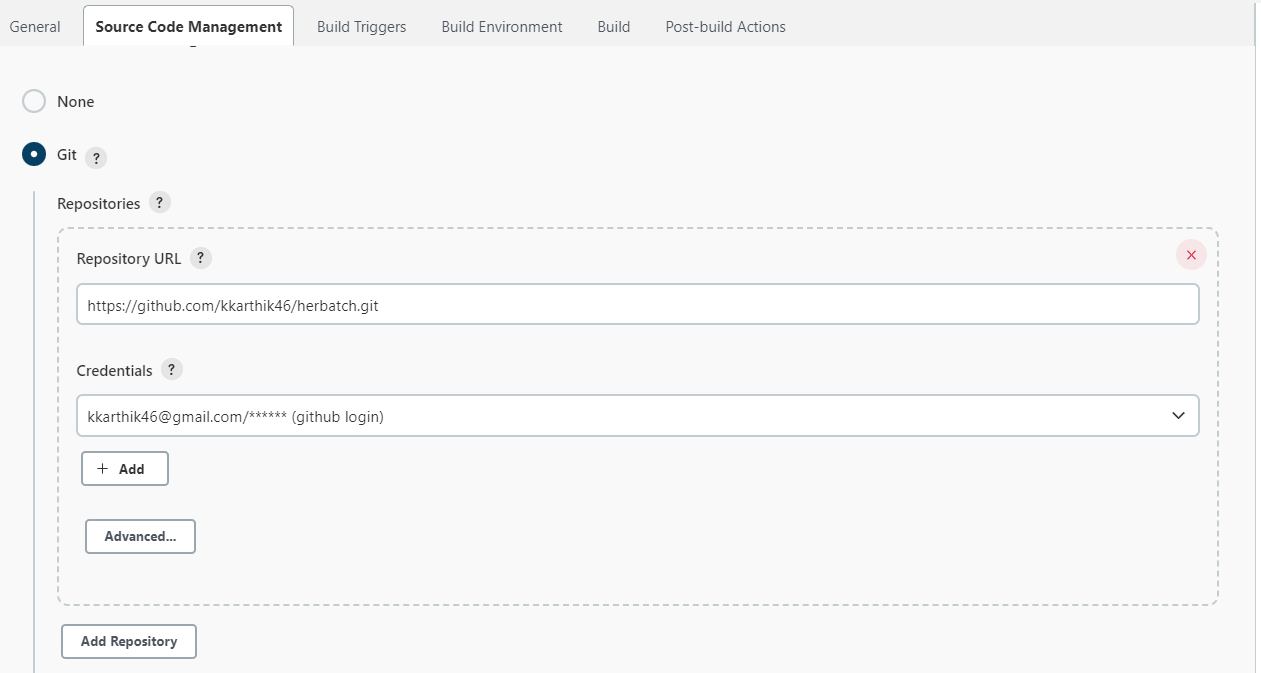


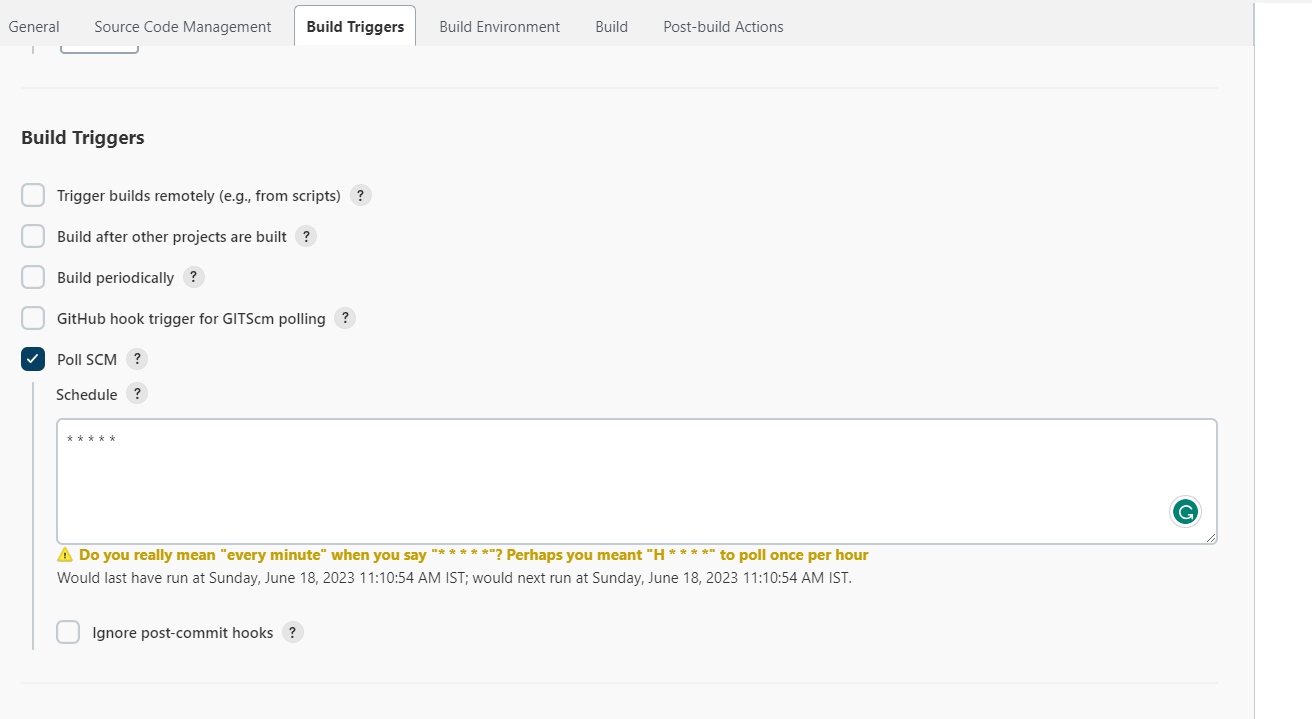


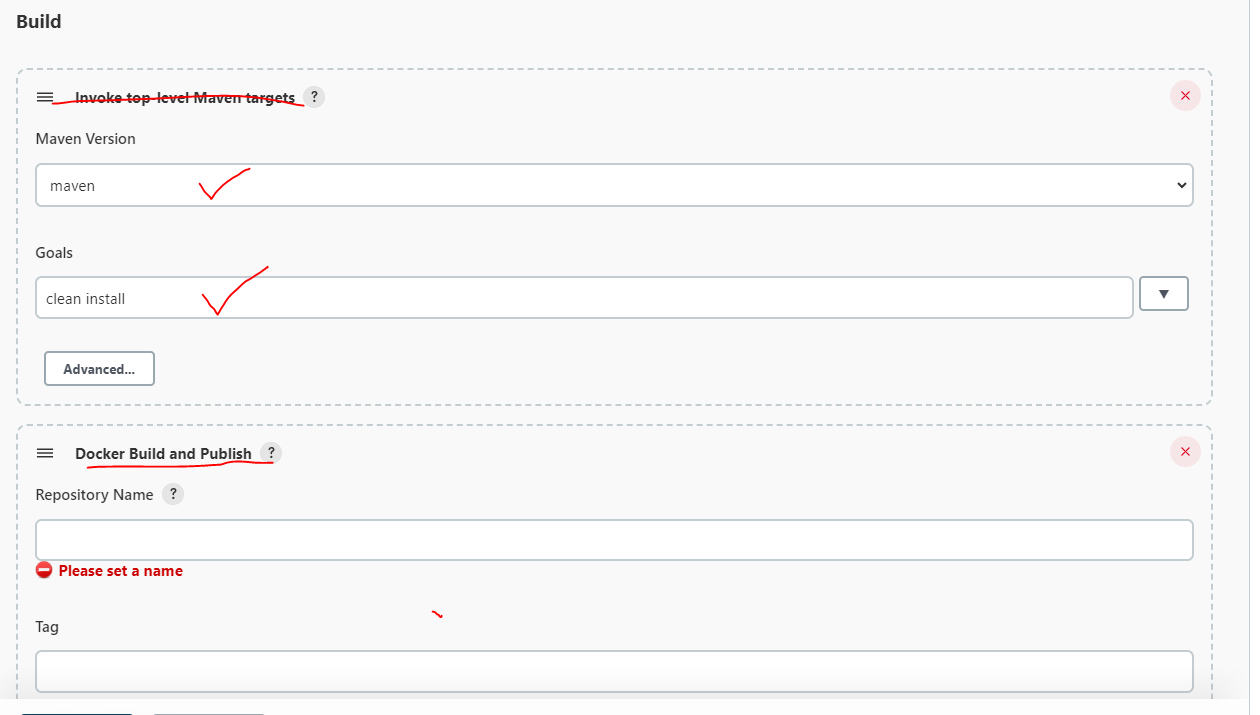
Save and Apply



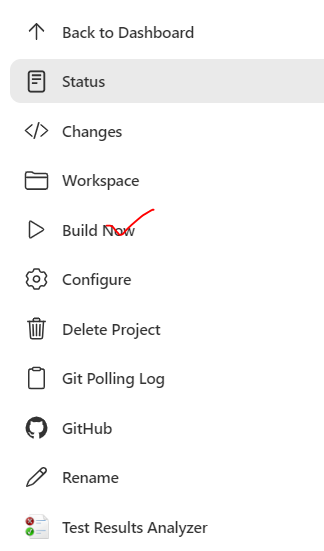


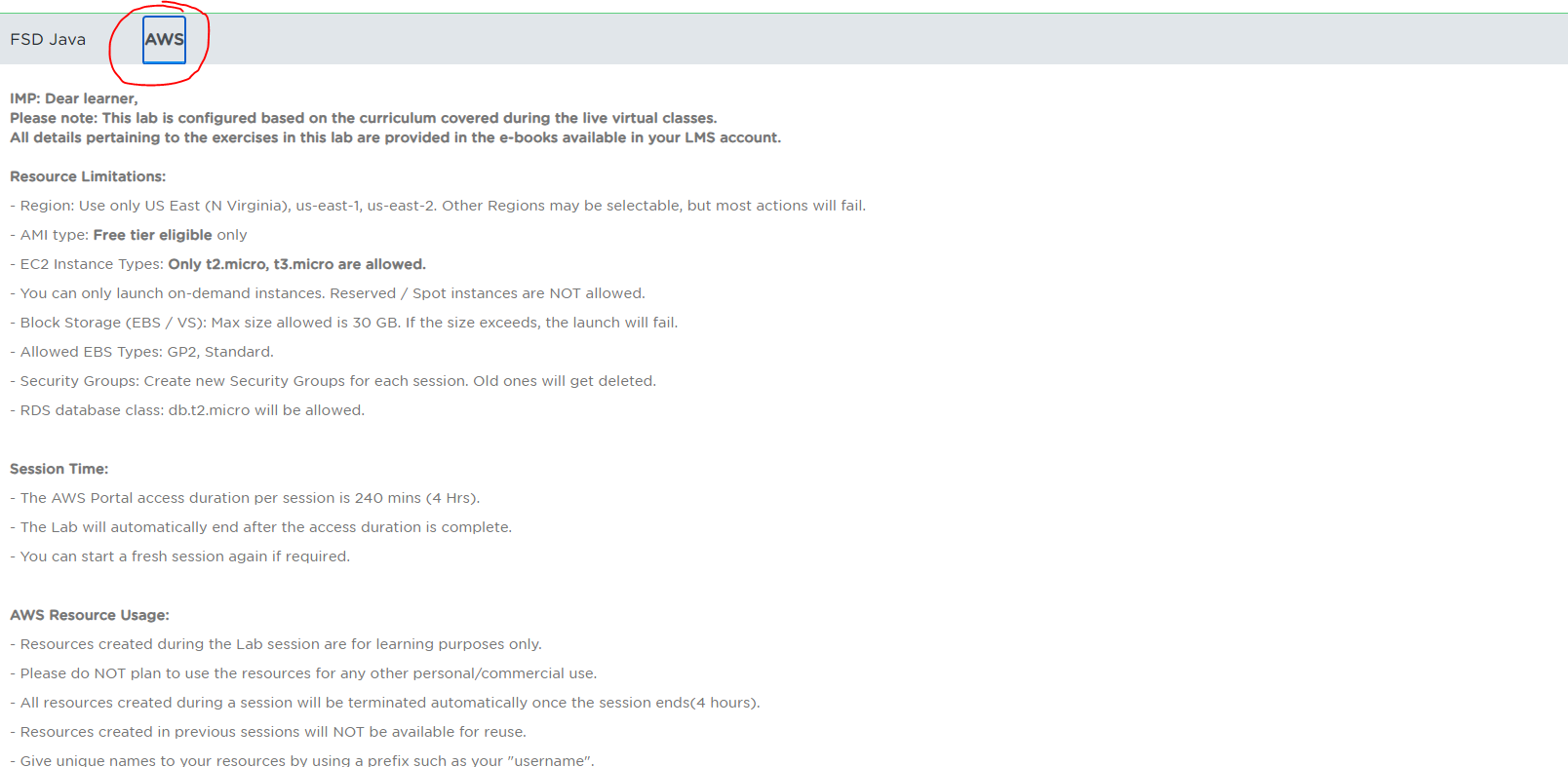


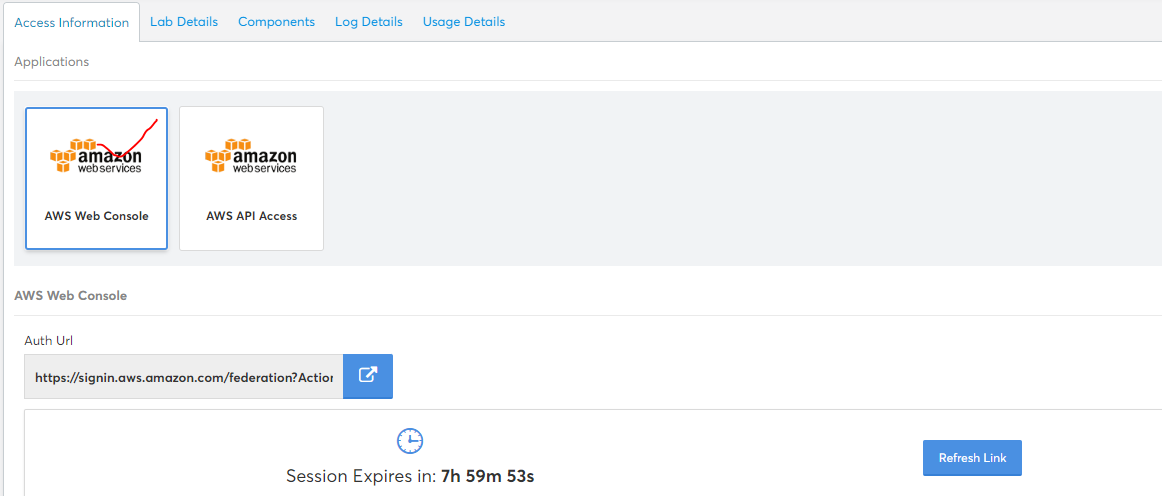


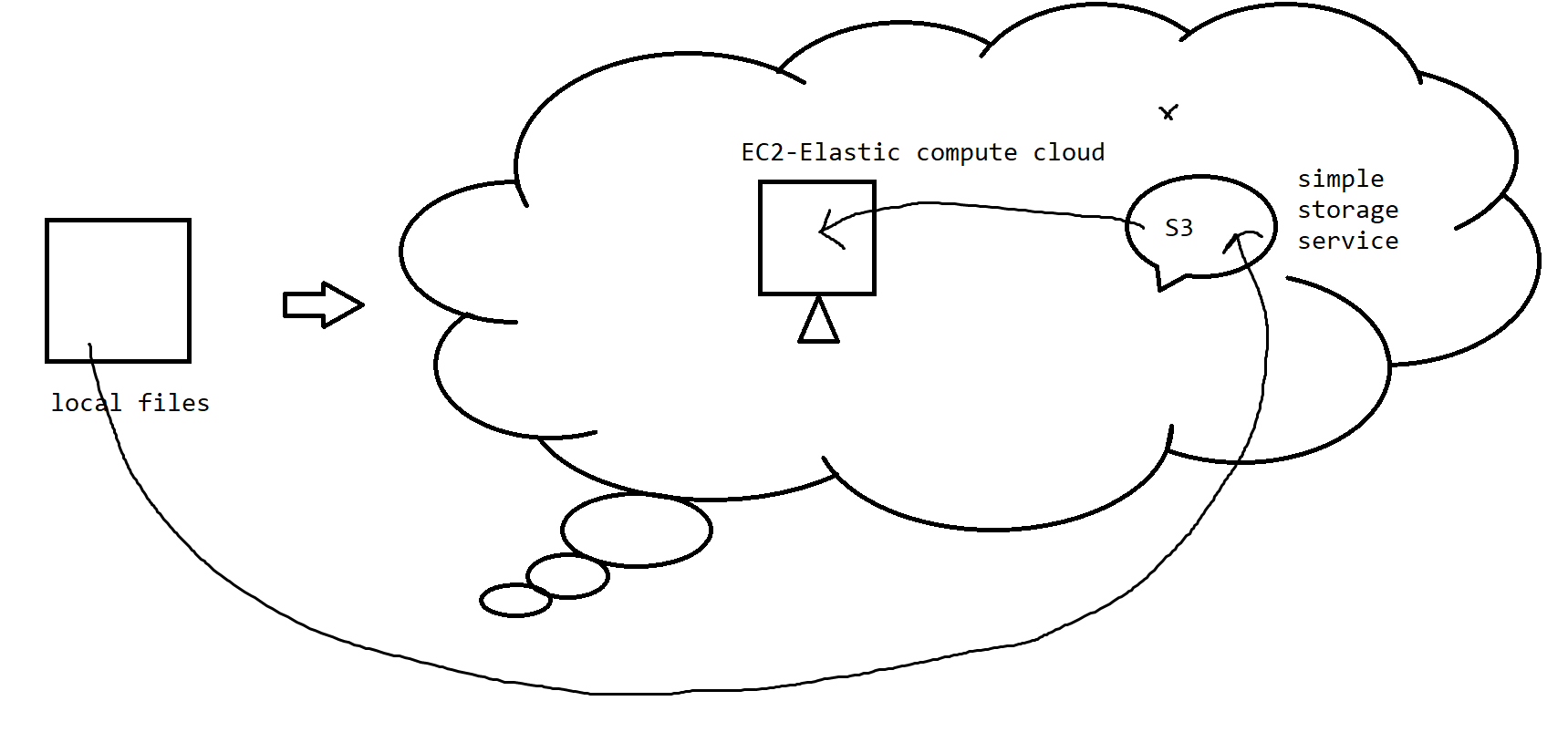


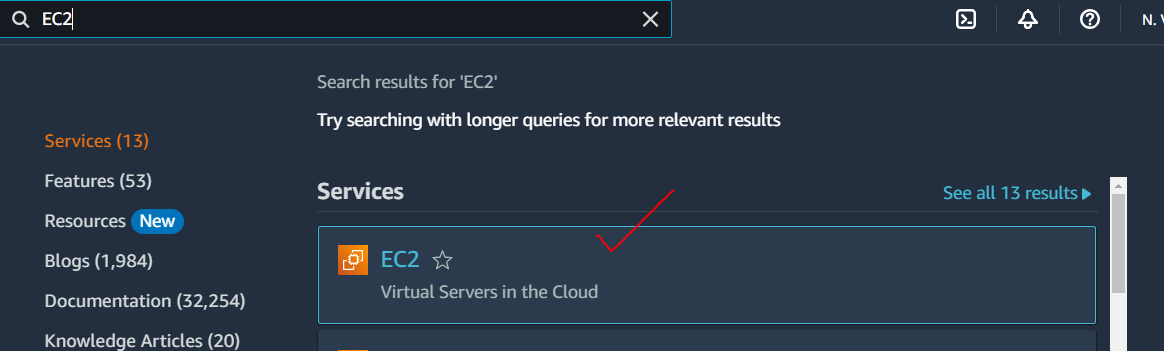


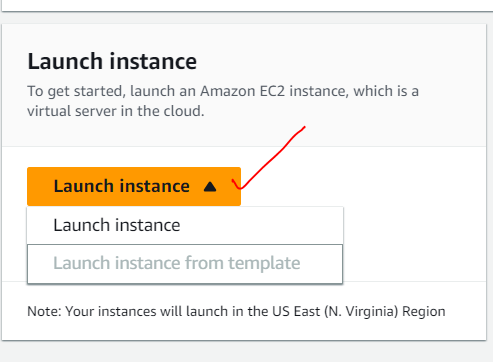


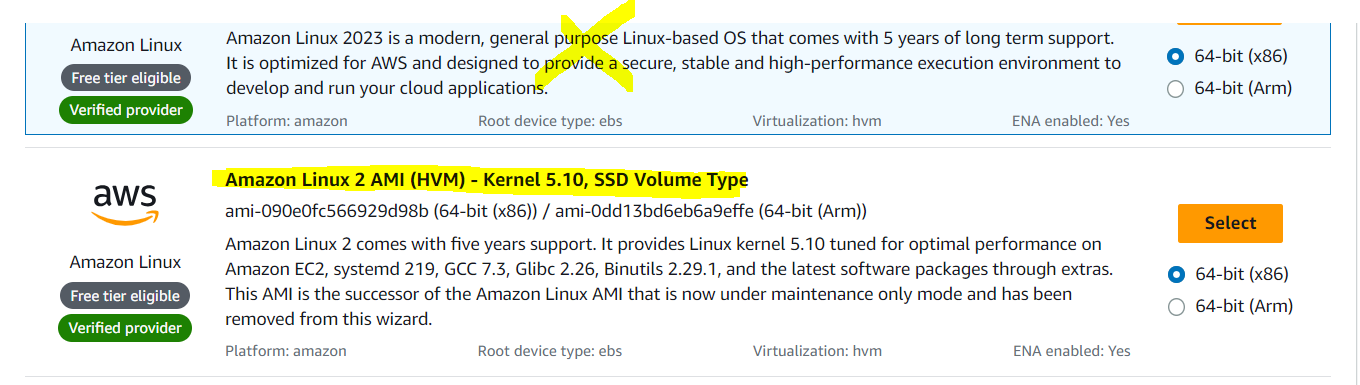


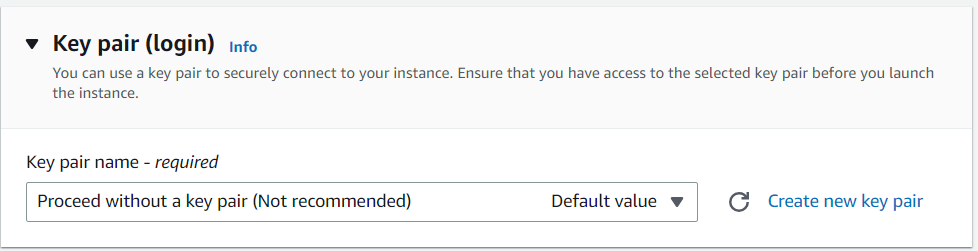


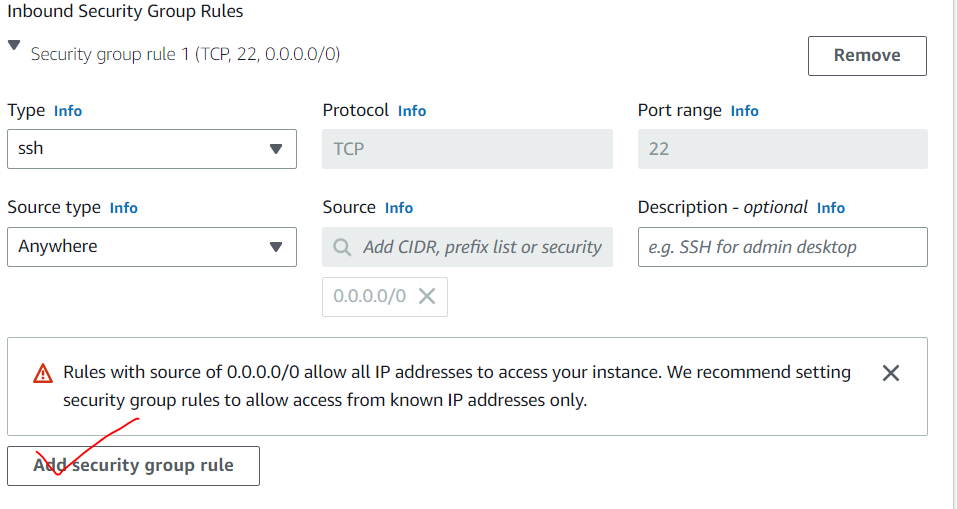


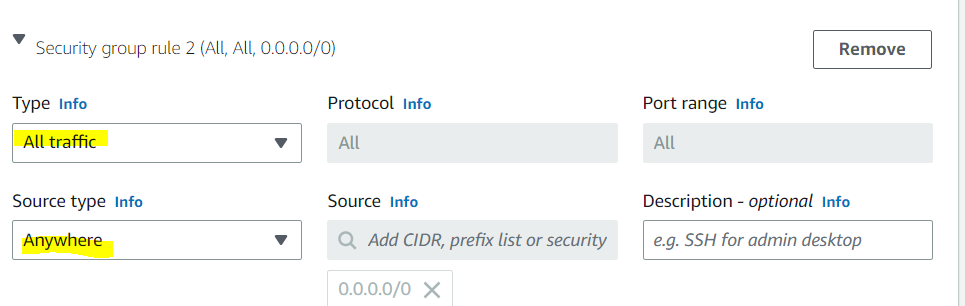


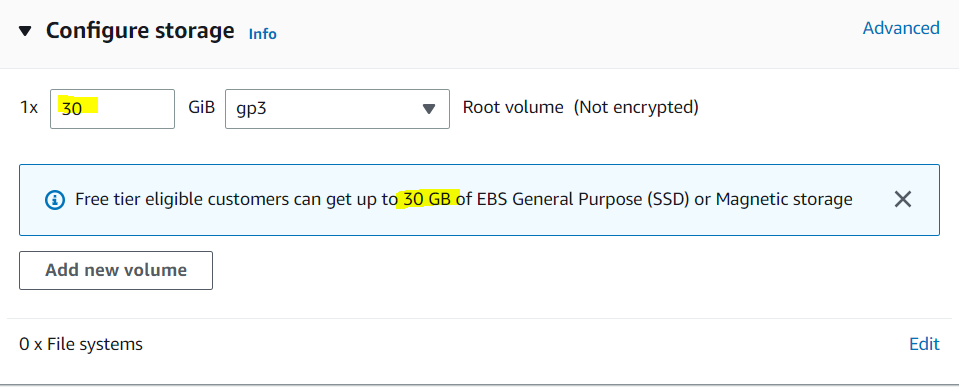


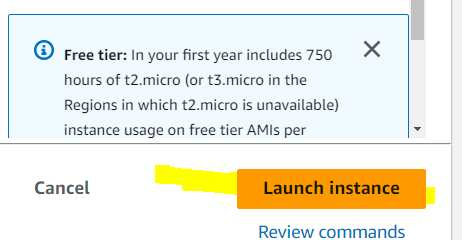


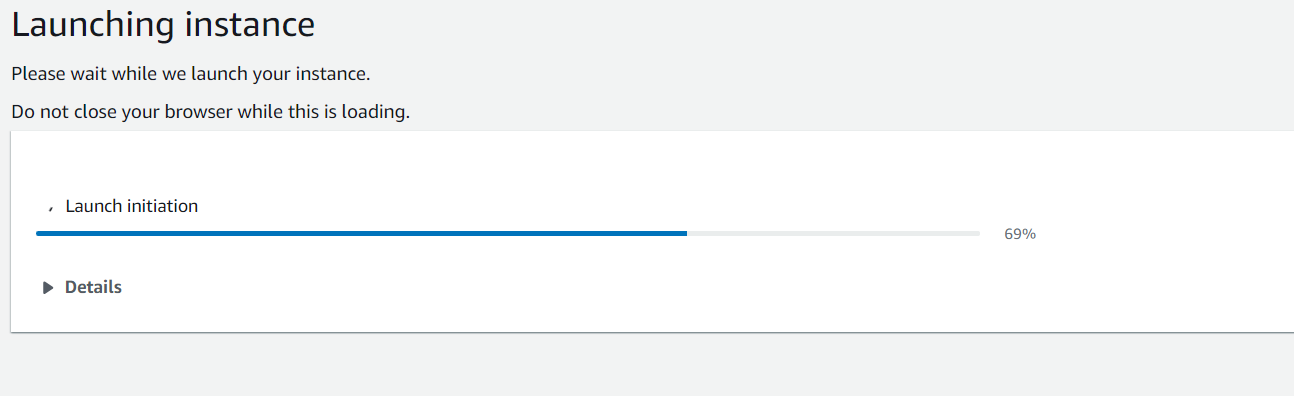


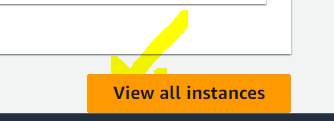


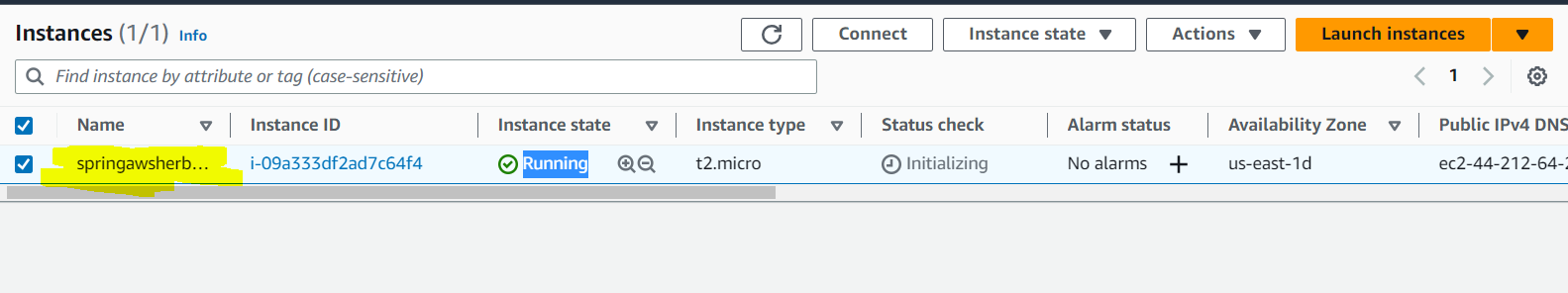


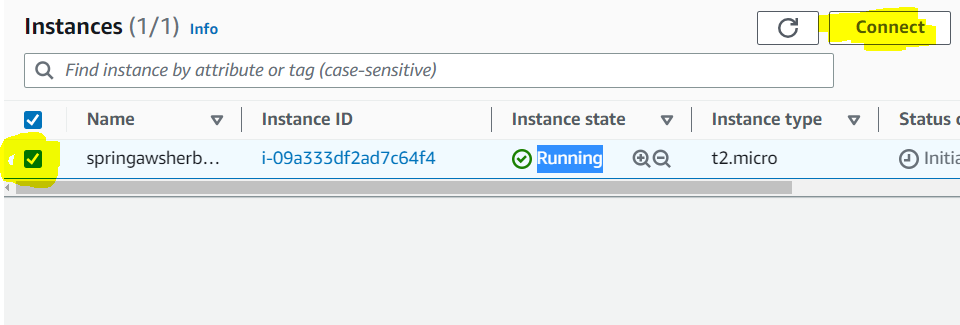


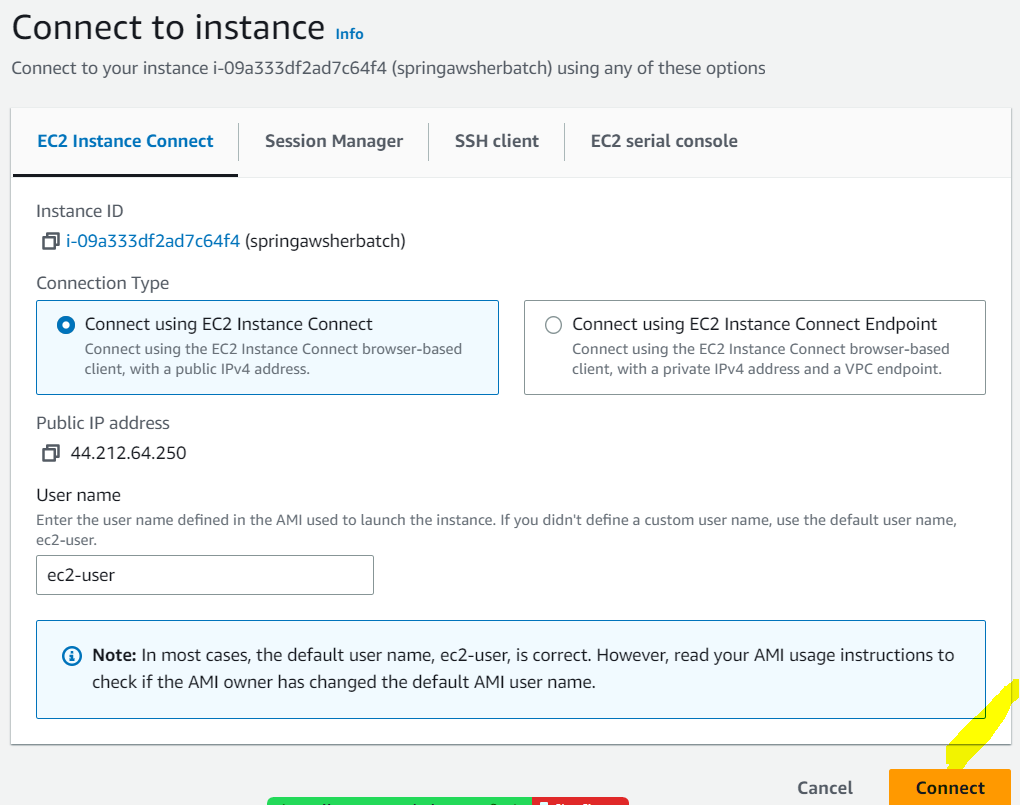


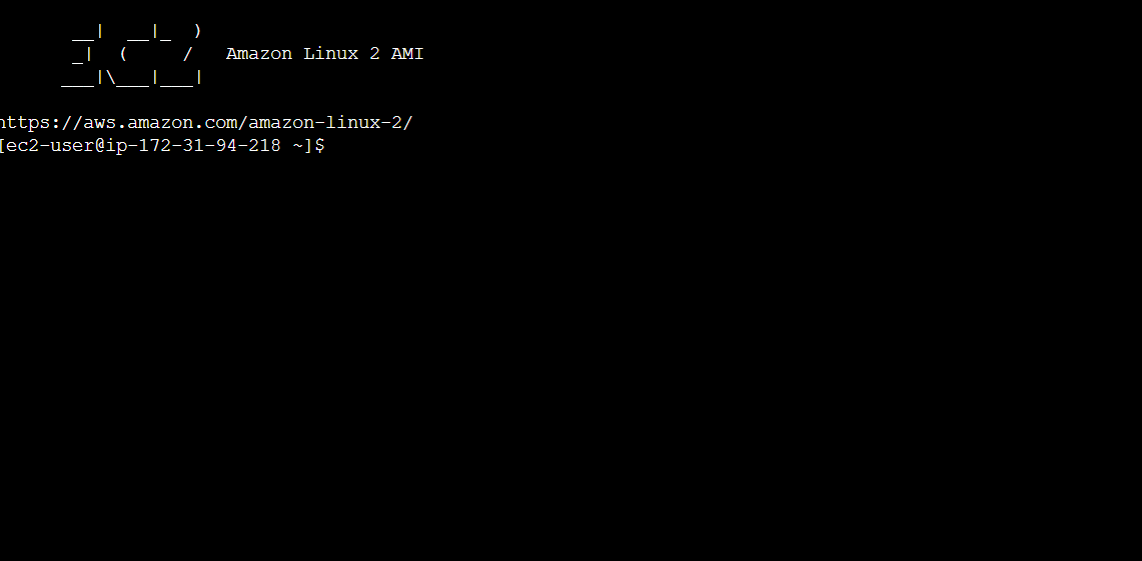














[root@ip-172-31-94-218 ~]# yum install java-1.8.0-openjdk

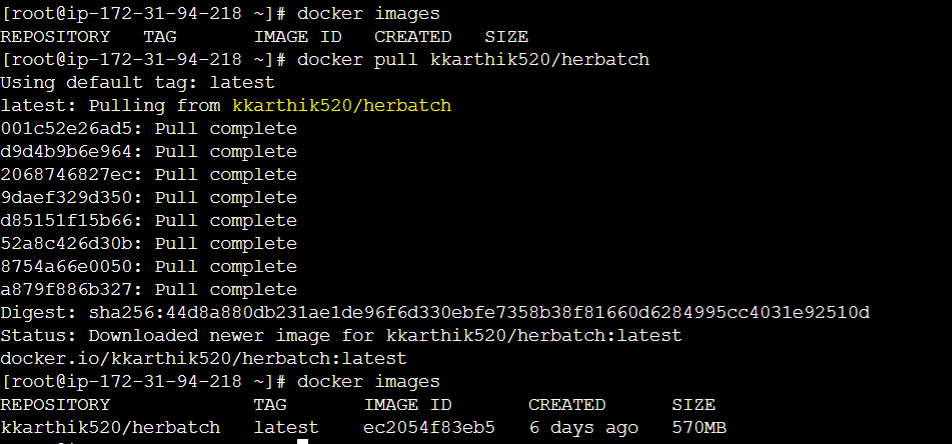
1. Install the docker

[root@ip-172-31-94-218 ~]# yum install docker

1. Start the service

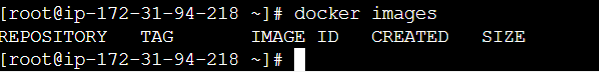


1. Pull the image



kkarthik520/herbatch => java level spring boot application - image

1. Config the database by using docker with the name what was mentioned in the properties file of the image



Change the properties

#datasource

spring.datasource.driver-class-name=com.mysql.jdbc.Driver

spring.datasource.url=jdbc:mysql://docker-mysql:3306/db7

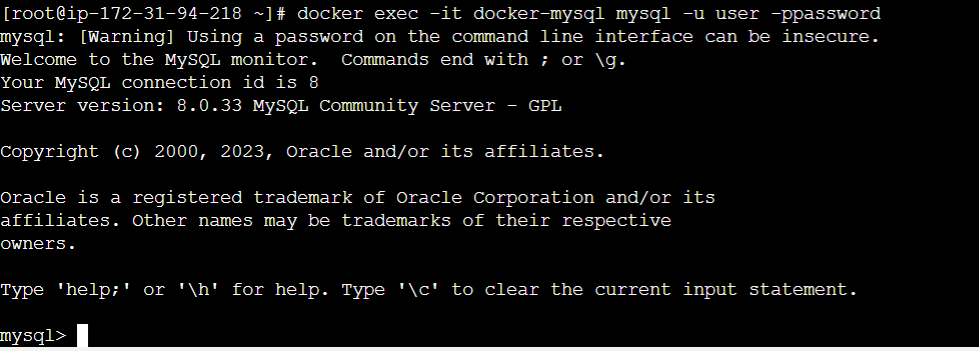
spring.datasource.username=user

spring.datasource.password=password

Delete all the images

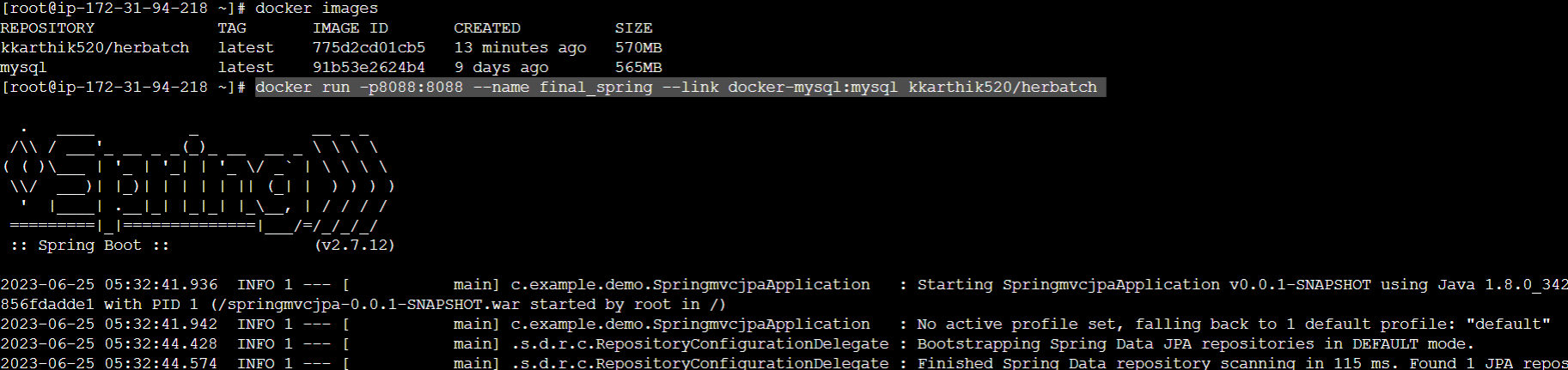
docker system prune -a --volumes

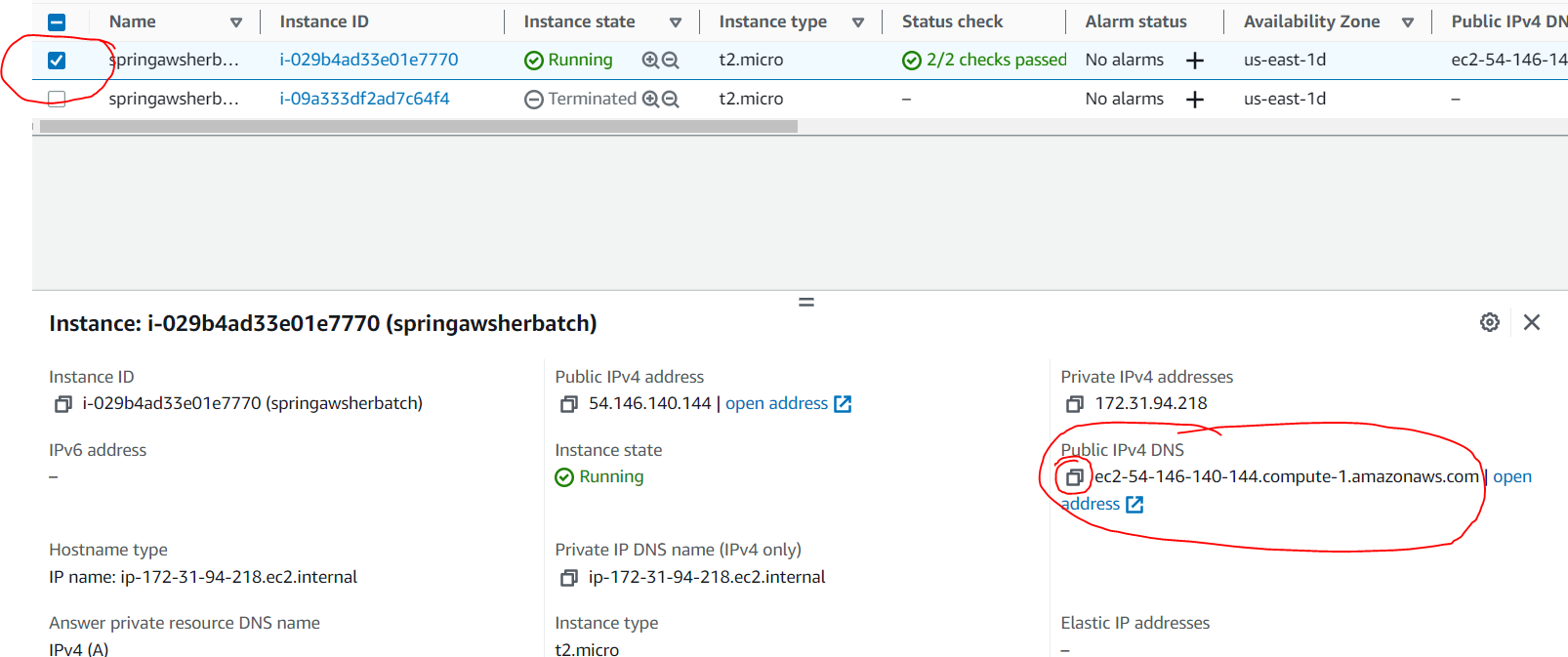
docker run --name docker-mysql -e MYSQL\_ROOT\_PASSWORD=password -e MYSQL\_DATABASE=db7 -e MYSQL\_USER=user -e MYSQL\_PASSWORD=password -d mysql:latest --default-authentication-plugin=mysql\_native\_password



Start the spring boot application linking with the spring image and the database image .

docker run -p8088:8088 --name final\_spring --link docker-mysql:mysql kkarthik520/herbatch





<http://ec2-54-146-140-144.compute-1.amazonaws.com:8088/>

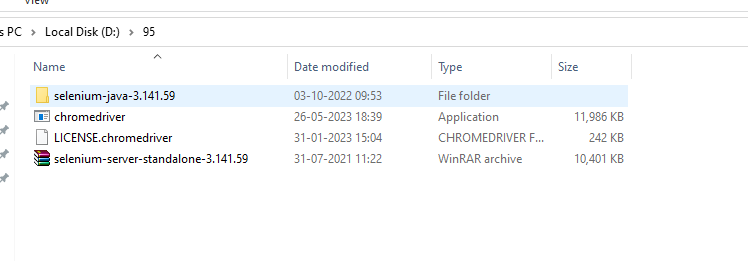
==testers are going to perform automation testing

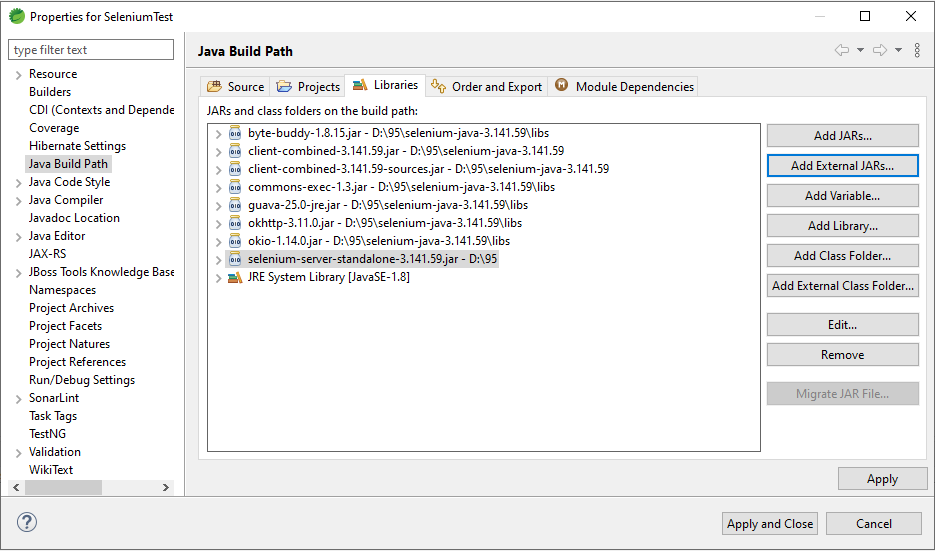
-selenium

<https://github.com/kkarthik46/selinium-test> =>95.zip => Extract and add all the jar files

Chrome driver

<https://chromedriver.storage.googleapis.com/114.0.5735.90/chromedriver_win32.zip>





import static org.junit.Assert.assertEquals;

import static org.junit.Assert.fail;

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class TestWebpage {

WebDriver wd=null;

@Before

public void init() {

//load the web driver

System.setProperty("webdriver.chrome.driver","D:\\95\\chromedriver.exe");

wd=new ChromeDriver();

//linking to the browser

wd.manage().window().maximize();

wd.get("http://ec2-54-146-140-144.compute-1.amazonaws.com:8088/");

}

//Insertion is successfull!!

@Test

public void test() throws InterruptedException {

wd.findElement(By.name("name")).sendKeys("prasad");

Thread.sleep(2000);

wd.findElement(By.name("email")).sendKeys("p@s.s");

Thread.sleep(2000);

wd.findElement(By.xpath("/html/body/form/input[3]")).submit();

Thread.sleep(2000);

String expected="Insertion is successfull!!";

String actual=wd.findElement(By.xpath("/html/body/h1")).getText();

Thread.sleep(2000);

wd.findElement(By.xpath("/html/body/form/input")).submit();

assertEquals(expected,actual);

}

@After

public void closebrowser() {

wd.close();

}

}