

## SIMPLILEARN PROJECT

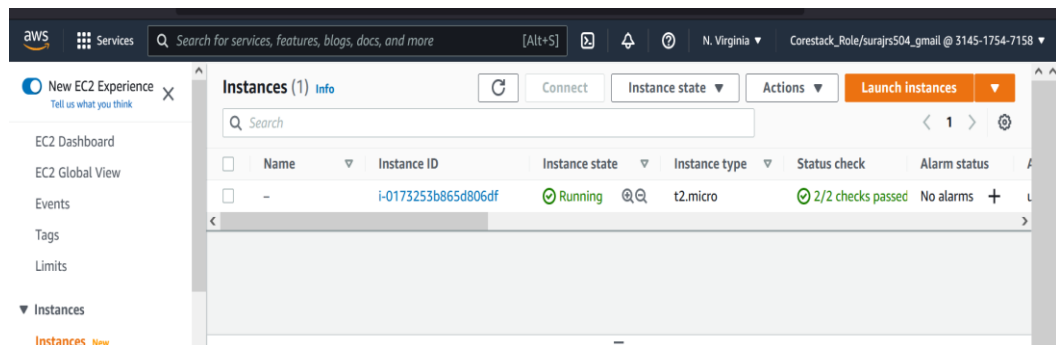
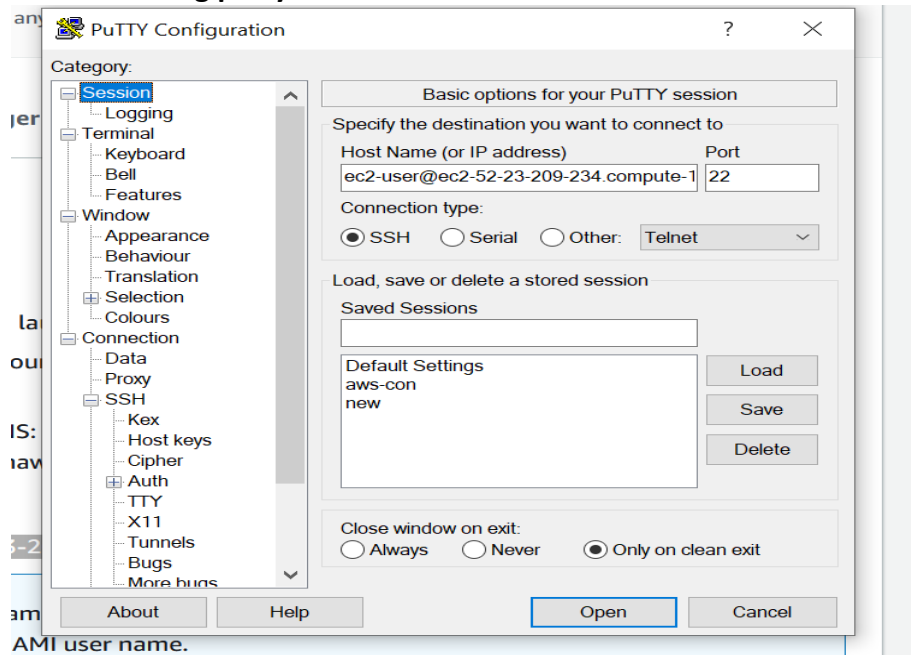
BY: SURAJ R SHIRIYA

<b>FULL NAME</b>	SURAJ R SHIRIYA
<b>BATCH</b>	MS FSD DEC 2021 Cohort 1
<b>PROJECT TITLE</b>	CI/CD pipeline using Jenkins and AWS
<b>PROJECT SUBMISSION DATE</b>	02-08-2022
<b>GITHUB LINK</b>	<a href="https://github.com/surajrs504/aws-springboot-jenkins">https://github.com/surajrs504/aws-springboot-jenkins</a>

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**SCREEN SHOTS:****# create a ec2 instance in aws****Specification-**

- Linux
- 8GB storage

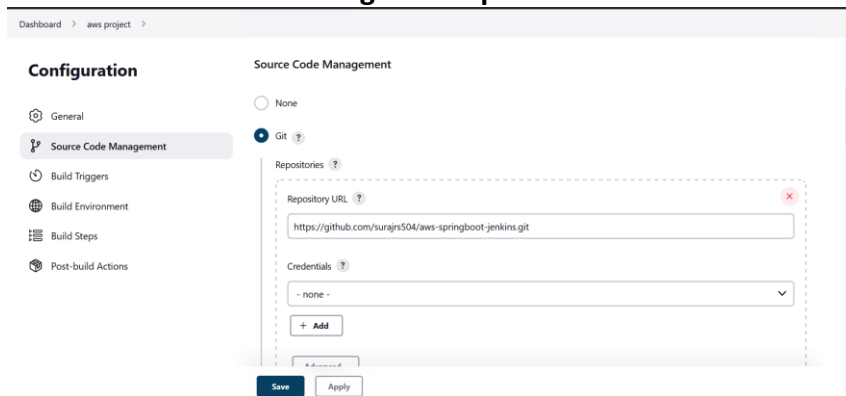
**Security group( ssh,http-port-80, custom TCP-port-8080, custom TCP-port-8085****#connect using putty**

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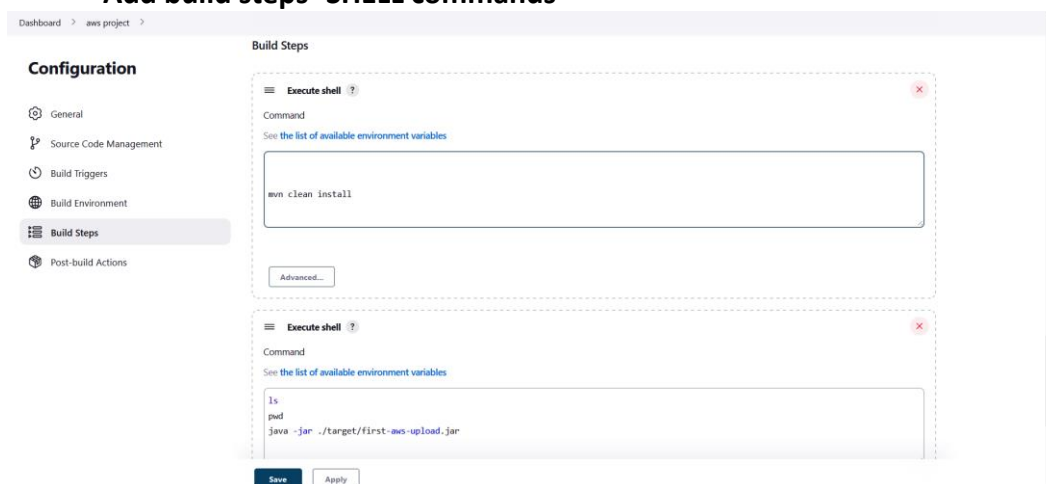
```
ec2-user@ip-172-31-82-100:~  
Using username "ec2-user".  
Authenticating with public key "imported-openssh-key-ec2"  
Last login: Tue Aug  2 04:58:23 2022 from 49.37.163.18  
  
    _ _ | _ _ | _ )  
    _ _ | ( _ _ | /  Amazon Linux 2 AMI  
    _ _ | \ _ _ | _ _ |  
  
https://aws.amazon.com/amazon-linux-2/  
No packages needed for security; 2 packages available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-82-100 ~]$ ls  
myproject  
[ec2-user@ip-172-31-82-100 ~]$
```

**#install- java, Jenkins(set port to 8085)****#start jenkins in aws -setup**

- Create user
- Create job
- Create freestyle job
- Provide the github repo link



- Add build steps- SHELL commands



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## #build success in console output

```
Dashboard > aws project > #9

[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ demo ---
[INFO] Building jar: /var/lib/jenkins/workspace/aws project/target/first-aws-upload.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.7.2:repackage (repackage) @ demo ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ demo ---
[INFO] Installing /var/lib/jenkins/workspace/aws project/target/first-aws-upload.jar to /var/lib/jenkins/.m2/repository/com/example/demo/0.0.1-SNAPSHOT/demo-0.0.1-SNAPSHOT.jar
[INFO] Installing /var/lib/jenkins/workspace/aws project/pom.xml to /var/lib/jenkins/.m2/repository/com/example/demo/0.0.1-SNAPSHOT/demo-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 16.754 s
[INFO] Finished at: 2022-08-02T05:46:41Z
[INFO] Final Memory: 28M/108M
[INFO]
[aws project] $ /bin/sh -xe /tmp/jenkins7711659854367660718.sh
+ ls
+ mvnw
+ mvnw.cmd
+ pom.xml
+ src
+ target
+ pud
+ /var/lib/jenkins/workspace/aws project
+ java -jar ./target/first-aws-upload.jar
```

## # now check for the program output and port 8080

← → ↺ ec2-52-23-209-234.compute-1.amazonaws.com:8080/home

this is the 1st commit

## # now lets change the program slightly in th restcontroller

```
DemoApplication.java *mainhome.java ×
1 package com.example.demo;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4
5
6 @RestController
7 public class mainhome {
8
9     @GetMapping("/home")
10    public String home() {
11        System.out.println("hellooooooooo");
12        return "<center><h2>this is displayed at 2nd commit<h2><center>";
13    }
14 }
15
```

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**#now lets git add,commit and push it to github**

```

suraj@LAPTOP-94TI4713 MINGW64 /d/aws (main)
$ git status
On branch main
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   src/main/java/com/example/demo/mainhome.java

no changes added to commit (use "git add" and/or "git commit -a")

suraj@LAPTOP-94TI4713 MINGW64 /d/aws (main)
$ git add .

suraj@LAPTOP-94TI4713 MINGW64 /d/aws (main)
$ git commit -m "this is the 2nd commit"
[main 5c4f384] this is the 2nd commit
 1 file changed, 1 insertion(+), 1 deletion(-)

suraj@LAPTOP-94TI4713 MINGW64 /d/aws (main)
$ git push origin main
Enumerating objects: 17, done.
Counting objects: 100% (17/17), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 684 bytes | 228.00 KiB/s, done.
Total 9 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/surajrs504/aws-springboot-jenkins.git
   5cd5dc0..5c4f384  main -> main

suraj@LAPTOP-94TI4713 MINGW64 /d/aws (main)
$

```

**#now lets rebuild the project in jenkins**

```

Started by user surajrs
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/aws project
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/aws project/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/surajrs504/aws-springboot-jenkins.git # timeout=10
Fetching upstream changes from https://github.com/surajrs504/aws-springboot-jenkins.git
> git --version # timeout=10
> git --version # 'git version 2.37.1'
> git fetch --tags --force --progress -- https://github.com/surajrs504/aws-springboot-jenkins.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 5c4f3843d9cec2301faea342e6931d33f497b7db (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 5c4f3843d9cec2301faea342e6931d33f497b7db # timeout=10
Commit message: "this is the 2nd commit"
> git rev-list --no-walk 5cd5dc02f5d8dae0c9e315d116ea67ff3db91953 # timeout=10
[aws project] $ /bin/sh -xe /tmp/jenkins2964048889944844835.sh
+ mvn clean install
[INFO] Scanning for projects...
[INFO]

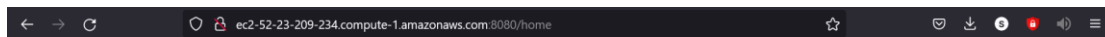
```

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```
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ demo ---
[INFO] Installing /var/lib/jenkins/workspace/aws project/target/first-aws-upload.jar to /var/lib/jenkins/.m2/repository/com/example/demo/0.0.1-SNAPSHOT/demo-0.0.1-SNAPSHOT.jar
[INFO] Installing /var/lib/jenkins/workspace/aws project/pom.xml to /var/lib/jenkins/.m2/repository/com/example/demo/0.0.1-SNAPSHOT/demo-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 19.685 s
[INFO] Finished at: 2022-08-02T05:54:55Z
[INFO] Final Memory: 28M/108M
[INFO] -----
[aws project] $ /bin/sh -xe /tmp/jenkins15958540521888891416.sh
+ ls
mvnw
mvnw.cmd
pom.xml
src
target
+ pwd
```

**# we got build success , lets check at port 8080**



this is displayed at 2nd commit

**THANK YOU**