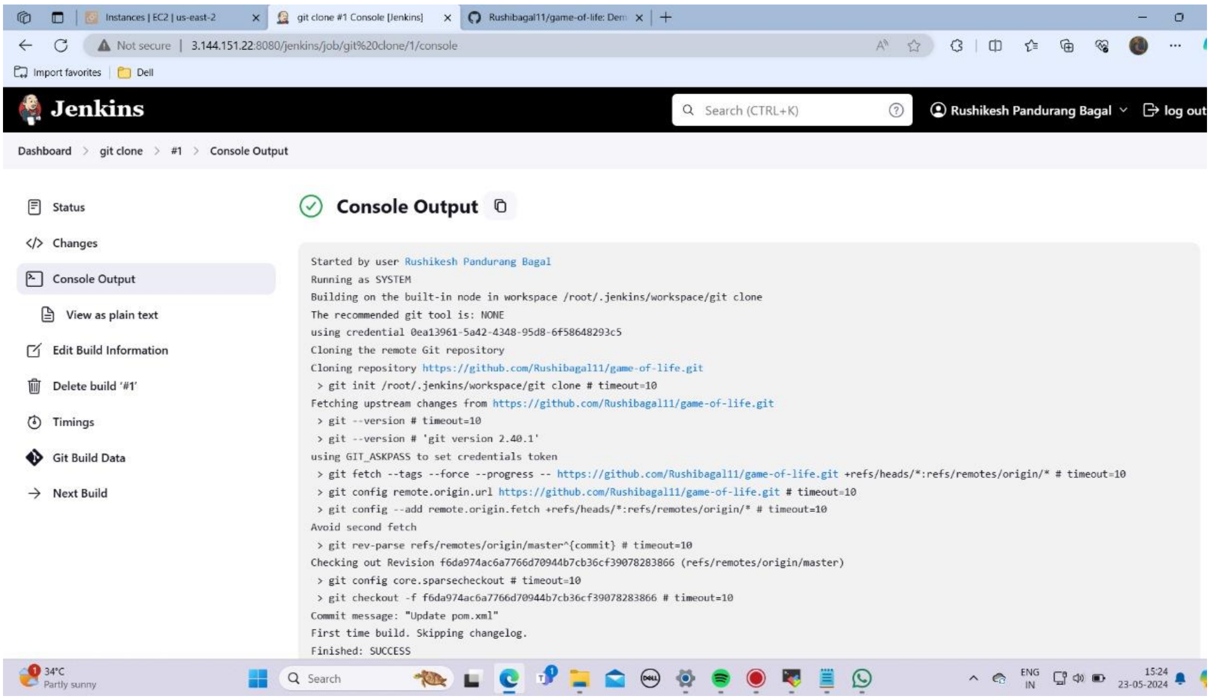
JNLP SLAVE CONNECTION

Task: Connect Jenkins masters with Jenkins slave(Nodes)

Steps:

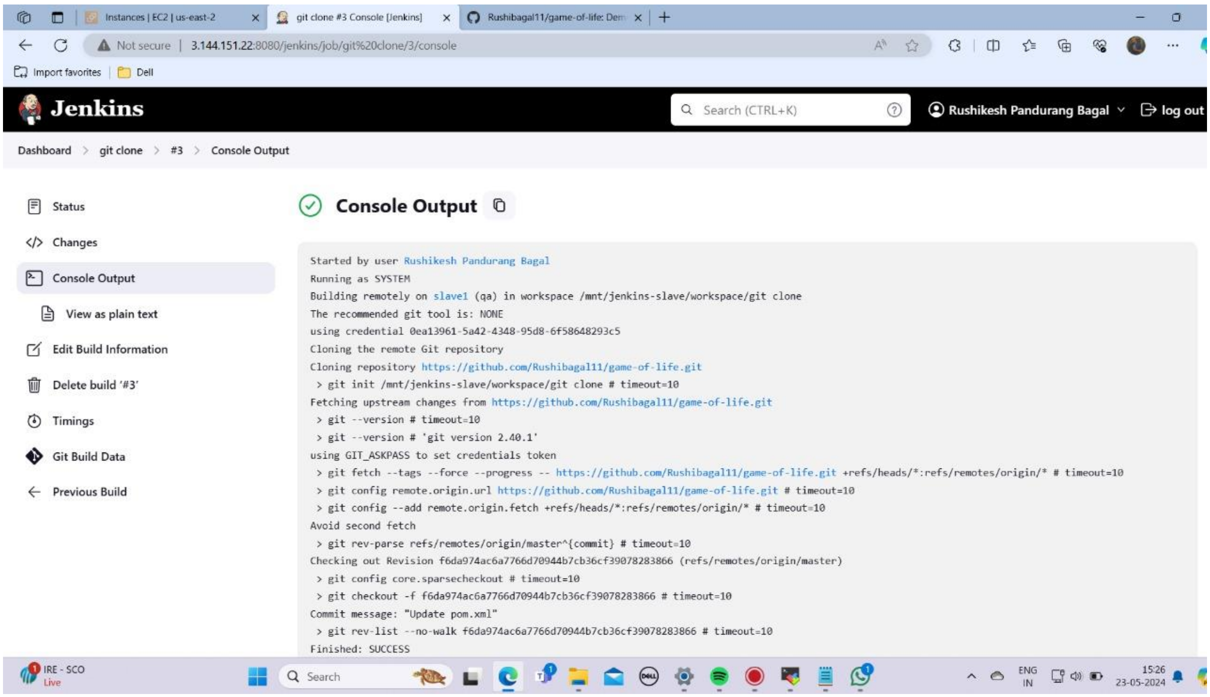
1) Create instance, download java, apache tomcat, Jenkins war inside webapps, log into Jenkins…
2) Create Jenkins master instance and download java 11 on this instance, go to Jenkins, manage Jenkins, select agent random, apply save.
3) Go to node, create node, name, description, no of executors, path of directory created in Jenkins master instance which will be Jenkins slave home directory, Give the name to node & save.
4) Go to Jenkins master instance, go to Jenkins master directory, inside that copy and paste the initial commands of node, you will get a certain **port number**. Just modify that port number in security group(Custom TCP) of Jenkins master instance. In Jenkins security **fix the agent(port Number)** Now copy the link of node and paste it to terminal of master instance directory and enter. To keep node continuous up, type command nohup ….link of node… & ls -ltr, tail -100f nohup.out you will see node will be up, you can do anything at backend.
5) Create two nodes with same details just change directory path
6) Launch two more instance slave2 & slave 3 , download java and make Jenkins slave directories, copy the same commands from nodes and paste it inside the Jenkins slave directories inside this instances.
7) Create the job, select restrict where the project can be run, **for master slave enter built-in,** for **particular slave give slave name.** execute shell action like random directory, apply save build the job, see the job, it will build over the slave that u have given
8) Create another job, add github link, credentials, run on any slave that you want, but be clear the git should be installed on your slaves instances manually, then and then only it will work.
9) Build job, got to console output you will see the info on which slave job is run.
10) To delete connection, terminate slave instances, delete nodes,

HERE ARE FEW SCREENSHOTS



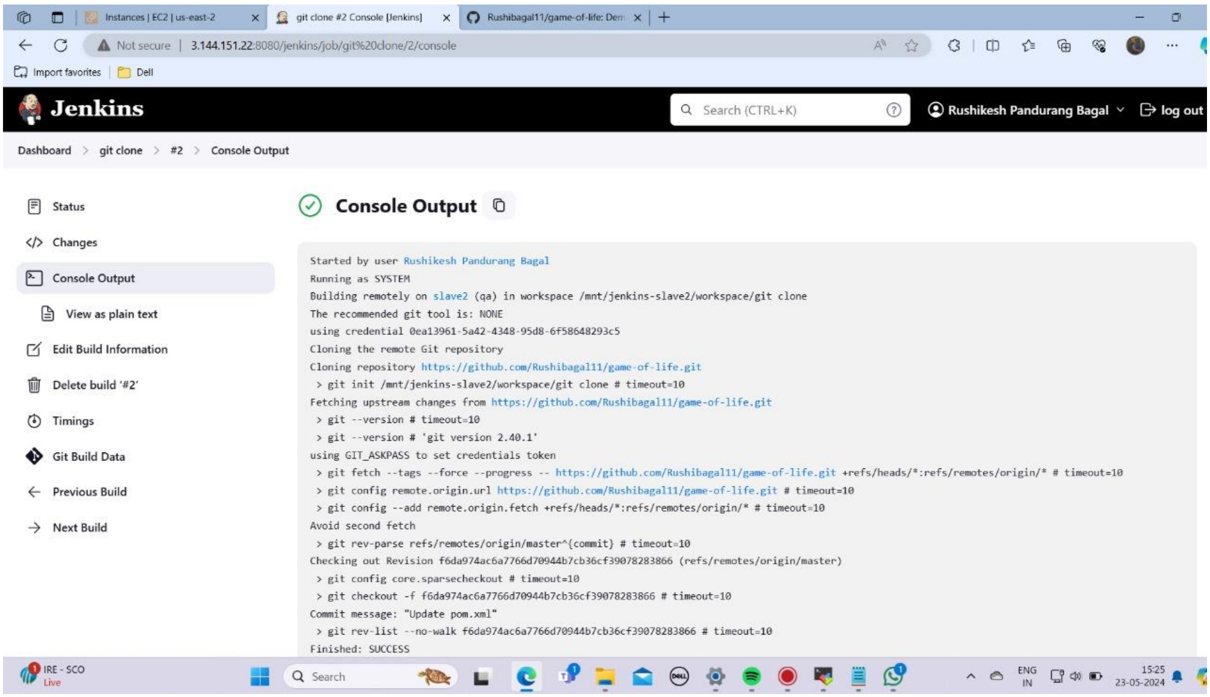
```
Started by user Rushikesh Pandurang Bagal
Running as SYSTEM
Building on the built-in node in workspace /root/.jenkins/workspace/git clone
The recommended git tool is: NONE
using credential 0ea13961-5a42-4348-95d8-6f58648293c5
Cloning the remote Git repository
Cloning repository https://github.com/Rushibagal11/game-of-life.git
 > git init /root/.jenkins/workspace/git clone # timeout=10
Fetching upstream changes from https://github.com/Rushibagal11/game-of-life.git
 > git --version # timeout=10
 > git --version # 'git version 2.40.1'
using GIT_ASKPASS to set credentials token
 > git fetch --tags --force --progress -- https://github.com/Rushibagal11/game-of-life.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git config remote.origin.url https://github.com/Rushibagal11/game-of-life.git # timeout=10
 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
 > git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision f6da974ac6a7766d70944b7cb36cf39078283866 (refs/remotes/origin/master)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f f6da974ac6a7766d70944b7cb36cf39078283866 # timeout=10
Commit message: "Update pom.xml"
First time build. Skipping changelog.
Finished: SUCCESS
```

Run on master slave(Built in)



```
Started by user Rushikesh Pandurang Bagal
Running as SYSTEM
Building remotely on slave1 (qa) in workspace /mnt/jenkins-slave/workspace/git clone
The recommended git tool is: NONE
using credential 0ea13961-5a42-4348-95d8-6f58648293c5
Cloning the remote Git repository
Cloning repository https://github.com/Rushibagal11/game-of-life.git
 > git init /mnt/jenkins-slave/workspace/git clone # timeout=10
Fetching upstream changes from https://github.com/Rushibagal11/game-of-life.git
 > git --version # timeout=10
 > git --version # 'git version 2.40.1'
using GIT_ASKPASS to set credentials token
 > git fetch --tags --force --progress -- https://github.com/Rushibagal11/game-of-life.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git config remote.origin.url https://github.com/Rushibagal11/game-of-life.git # timeout=10
 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
 > git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision f6da974ac6a7766d70944b7cb36cf39078283866 (refs/remotes/origin/master)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f f6da974ac6a7766d70944b7cb36cf39078283866 # timeout=10
Commit message: "Update pom.xml"
 > git rev-list --no-walk f6da974ac6a7766d70944b7cb36cf39078283866 # timeout=10
Finished: SUCCESS
```

Run of slave1(Node1)



Instances | EC2 | us-east-2
git clone #2 Console [Jenkins]
Rushibagal11/game-of-life: Dem
Not secure | 3.144.151.22:8080/jenkins/job/git%20clone/2/console
Import favorites
Dell
Jenkins
Search (CTRL+K)
Rushikesh Pandurang Bagal
log out
Dashboard > git clone > #2 > Console Output
Status
Changes
Console Output
View as plain text
Edit Build Information
Delete build '#2'
Timings
Git Build Data
Previous Build
Next Build
IRE - SCO
Live
Search
ENG
IN
15:25
23-05-2024

Console Output

```
Started by user Rushikesh Pandurang Bagal
Running as SYSTEM
Building remotely on slave2 (qa) in workspace /mnt/jenkins-slave2/workspace/git clone
The recommended git tool is: NONE
using credential 0ea13961-5a42-4348-95d8-6f58648293c5
Cloning the remote Git repository
Cloning repository https://github.com/Rushibagal11/game-of-life.git
 > git init /mnt/jenkins-slave2/workspace/git clone # timeout=10
Fetching upstream changes from https://github.com/Rushibagal11/game-of-life.git
 > git --version # timeout=10
 > git --version # 'git version 2.40.1'
using GIT_ASKPASS to set credentials token
 > git fetch --tags --force --progress -- https://github.com/Rushibagal11/game-of-life.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git config remote.origin.url https://github.com/Rushibagal11/game-of-life.git # timeout=10
 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
 > git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision f6da974ac6a7766d70944b7cb36cf39078283866 (refs/remotes/origin/master)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f f6da974ac6a7766d70944b7cb36cf39078283866 # timeout=10
Commit message: "Update pom.xml"
 > git rev-list --no-walk f6da974ac6a7766d70944b7cb36cf39078283866 # timeout=10
Finished: SUCCESS
```

Run of slave2 (Node2)