

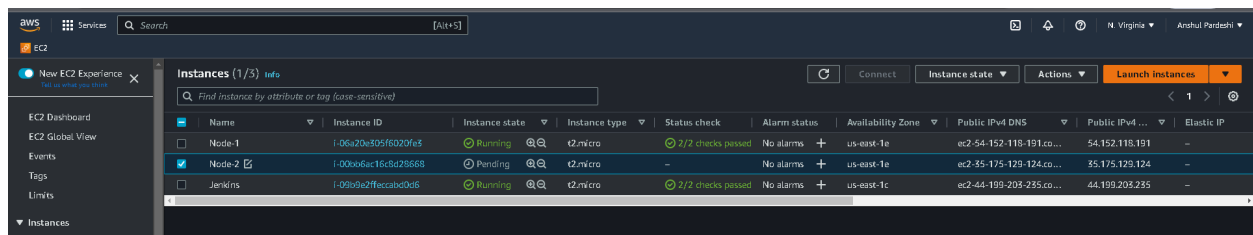
Jenkins-2

You have been asked to:

- Add 2 nodes to Jenkins master
- Create 2 jobs with the following jobs:
 - Push to dev
 - Push to master
- Once a push is made to dev branch copy git files to node1 server
- Once a push is made to master branch copy git files to node2 server

We already have one node ready and connected from Jenkins-1.

Lets create another instance and connect it to jenkins as node-2.

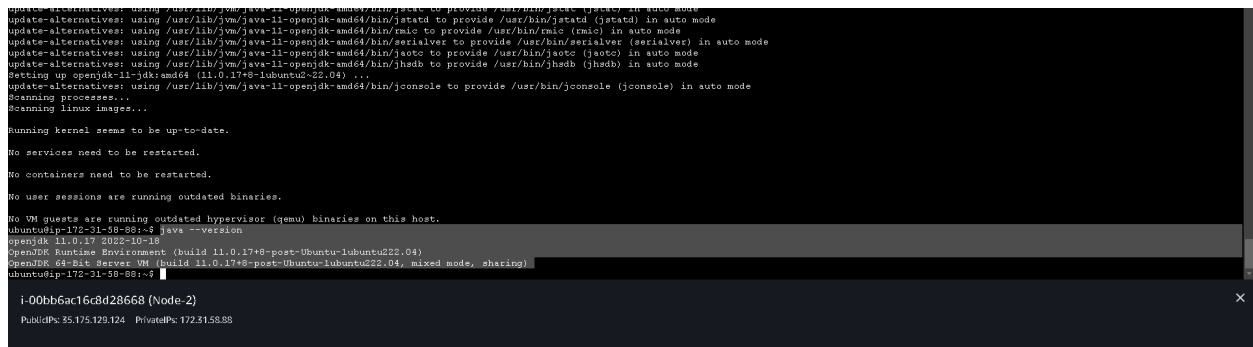


Now that instance is created, we will install java on it then connect it to jenkins master as worker node.


SS to this instance and install java after updating:

`sudo apt-get update`

`sudo apt-get install openjdk-11-jdk -y`



Copy the private ip and let's move towards jenkins.

 Jenkins

Dashboard > Manage Jenkins > Nodes >

+ New Node

Configure Clouds

Node Monitoring

Build Queue

No builds in the queue.

Build Executor Status

☐ Built-In Node




1 Idle

2 Idle

☐ Nodeworker1

1 Idle

Search (CTRL+K)

  Anshul p  log out

New node

Node name

Type

☐ Permanent Agent

Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

☐ Copy Existing Node

Create

In credentials we can choose same 'ubuntu' which we used in 'Jenkins-1' as we created instance using same pem file.

Let us check the node status, and it is running.

[←](#)
[Not secure](#)
[14.199.203.235:8080/inmanage/computer/](#)

[Sign in](#)

100%

[-](#)
[+](#)
[Reset](#)

[?](#)

[1](#)

[Anshul p](#)

[log out](#)

[Dashboard](#)
[Manage Jenkins](#)
[Nodes](#)

[+ New Node](#)

[☁ Configure Clouds](#)

[📊 Node Monitoring](#)

[Build Queue](#)

No builds in the queue.

[Build Executor Status](#)

☐ Built-In Node

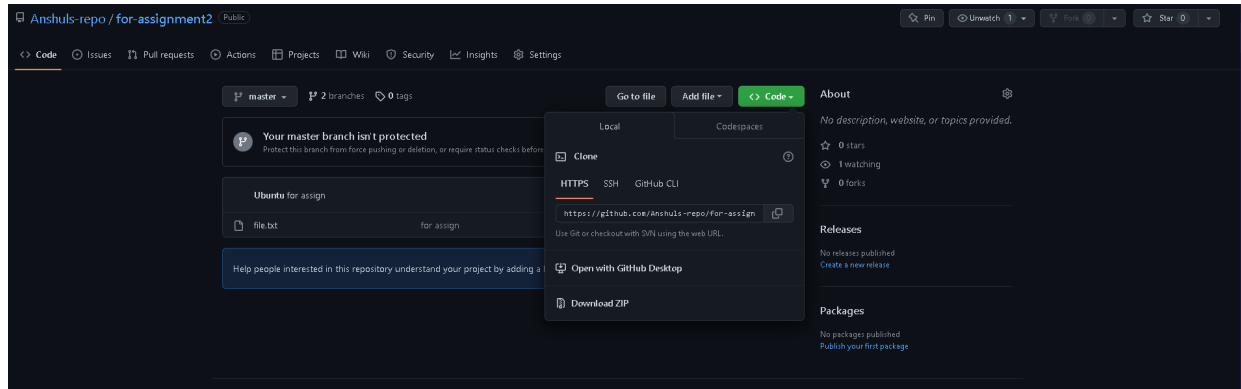
S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	4.48 GB	1.0 B	4.48 GB	0ms
	Nodeworker-1	Linux (amd64)	In sync	4.99 GB	1.0 B	4.99 GB	3ms
	Nodeworker-2	Linux (amd64)	In sync	5.00 GB	1.0 B	5.00 GB	47ms
Data obtained		6 min 41 sec	6 min 41 sec	6 min 41 sec	6 min 41 sec	6 min 41 sec	6 min 41 sec

[Refresh status](#)

Now that both the nodes are running we already made a push to dev in 'Jenkins-1'.

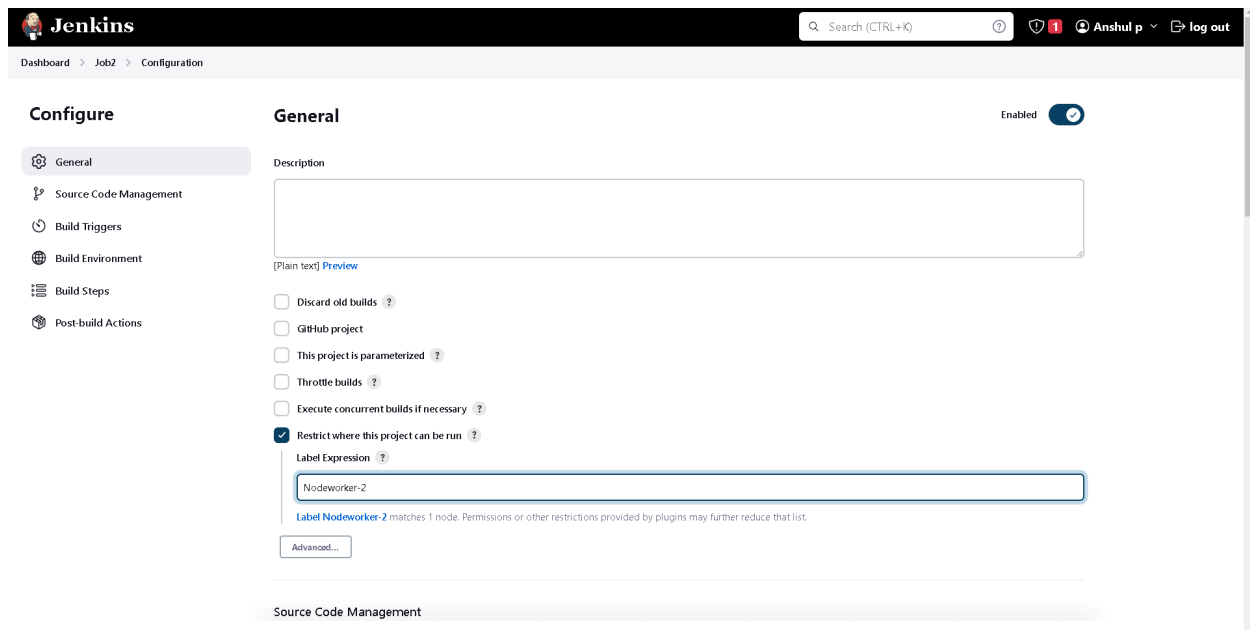
Let us make a push to node2 in master branch.

For that first copy https link of your git repo.



Create a new job in jenkins.

Restrict it to run on Nodeworker-2 now.



Further, paste link to git repo and also choose master branch this time.And save.

The screenshot shows the 'Configure' page for a Jenkins job. The 'Source Code Management' tab is selected. Under 'Source Code Management', the 'Git' option is chosen. The 'Repositories' section has a 'Repository URL' field containing 'https://github.com/Anshuls-repo/for-assignment2.git'. The 'Credentials' dropdown is set to 'none'. The 'Branches to build' section has a 'Branch Specifier (blank for \'any\')' field containing '*/*master'. The 'Repository browser' dropdown is set to '(Auto)'. The 'Additional Behaviours' section has an 'Add' button. The 'Build Triggers' section is visible at the bottom with 'Save' and 'Apply' buttons.

Webhook is already configured from ‘Jenkins-1’.
We can build job now and see changes in node2.
Before that let us observe if workspace is already there.

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-58-88:~$ java --version
openjdk 11.0.17 2022-10-19
OpenJDK Runtime Environment (build 11.0.17+8-post-Ubuntu-1ubuntu222.04)
OpenJDK 64-Bit Server VM (build 11.0.17+8-post-Ubuntu-1ubuntu222.04, mixed mode, sharing)
ubuntu@ip-172-31-58-88:~$ cd
ubuntu@ip-172-31-58-88:~$ ls
jenkins
ubuntu@ip-172-31-58-88:~$ cd jenkins
ubuntu@ip-172-31-58-88:~/jenkins$ ls
remoting  remotelap  jax
ubuntu@ip-172-31-58-88:~/jenkins$
```

i-00bb6ac16cd28668 (Node-2)
PublicIP: 35.175.129.124 PrivateIP: 172.31.58.88

No it is not.
Now let us run the job2 and observe.
Job is done successfully. Let us check files in node2 now.

The screenshot shows the Jenkins Dashboard. The 'Job2' job is selected. The 'Console Output' tab is active, showing the following log:

```
Started by user Anshul p
Running as SYSTEM
Building remotely on Nodeworker-2 in workspace /home/ubuntu/jenkins/workspace/Job2
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Anshuls-repo/for-assignment2.git
> git init /home/ubuntu/jenkins/workspace/Job2 # timeout=10
Fetching upstream changes from https://github.com/Anshuls-repo/for-assignment2.git
> git --version # timeout=10
> git --version # 'git version 2.34.1'
> git fetch --tags --force --progress -- https://github.com/Anshuls-repo/for-assignment2.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/Anshuls-repo/for-assignment2.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 53dfbad22449428a22190e3572a1b2907e1f940 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 53dfbad22449428a22190e3572a1b2907e1f940 # timeout=10
Commit message: "for assign"
First time build. Skipping changelog.
Finished: SUCCESS
```

You can observe that file in master branch in git repo is reflected in workspace in node 2.

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-58-88:~$ java --version
openjdk 11.0.17 2022-10-18
OpenJDK Runtime Environment (build 11.0.17+8-post-Ubuntu-1ubuntu222.04)
OpenJDK 64-Bit Server VM (build 11.0.17+8-post-Ubuntu-1ubuntu222.04, mixed mode, sharing)
ubuntu@ip-172-31-58-88:~$ cd
ubuntu@ip-172-31-58-88:~$ ls
jenkins
ubuntu@ip-172-31-58-88:~$ cd jenkins
ubuntu@ip-172-31-58-88:~/jenkins$ ls
remoting  remoting.jar
ubuntu@ip-172-31-58-88:~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@ip-172-31-58-88:~/jenkins$ cd workspace
ubuntu@ip-172-31-58-88:~/jenkins/workspace$ ls
Job2
ubuntu@ip-172-31-58-88:~/jenkins/workspace$ cd Job2
-bash: cd: Job2: No such file or directory
ubuntu@ip-172-31-58-88:~/jenkins/workspace$ cd Job2
ubuntu@ip-172-31-58-88:~/jenkins/workspace/Job2$ ls
file.txt
ubuntu@ip-172-31-58-88:~/jenkins/workspace/Job2$
```

i-00bb6ac16c8d28668 (Node-2)
PublicIP: 35.175.129.124 PrivateIP: 172.31.58.88

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