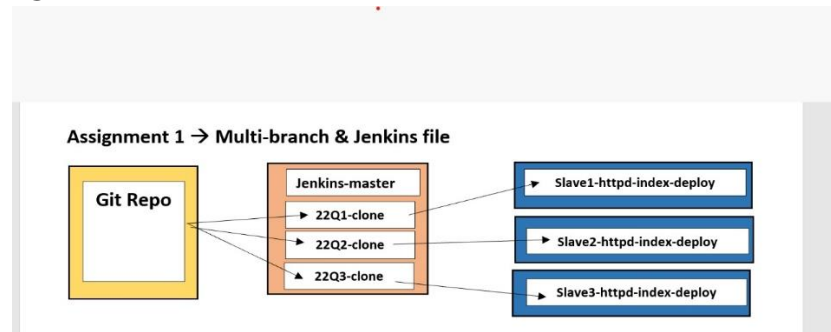


# Assignment 1

## Q. Multi-Branch and Jenkins file



### Step 1.

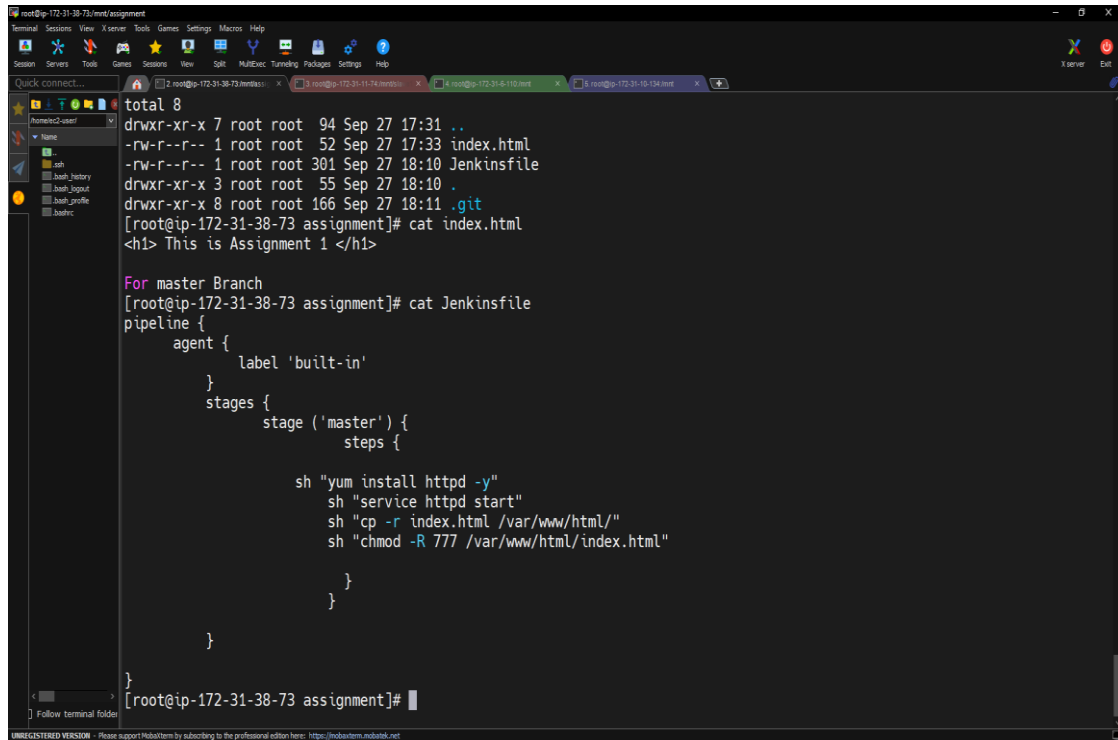
- Launch 4 instance 1- JM, 3-Slaves
- Install `java-1.8.0-openjdk.x86_64` on each slave i.e slave1, slave2, slave3.
- Creating nodes via SSH

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
1	172.31.10.134	Linux (amd64)	In sync	6.24 GB	0 B	6.24 GB	39ms
2	172.31.11.74	Linux (amd64)	In sync	6.24 GB	0 B	6.24 GB	24ms
3	172.31.6.110	Linux (amd64)	In sync	6.24 GB	0 B	6.24 GB	36ms
4	Built-In Node	Linux (amd64)	In sync	5.63 GB	0 B	5.63 GB	0ms
Data obtained		39 min	39 min	39 min	39 min	39 min	39 min

- Creating root workspace for every slave (`/mnt/slave1.....etc`)
- Giving permission to mnt `chmod -R 777 /mnt`

## Step 2.

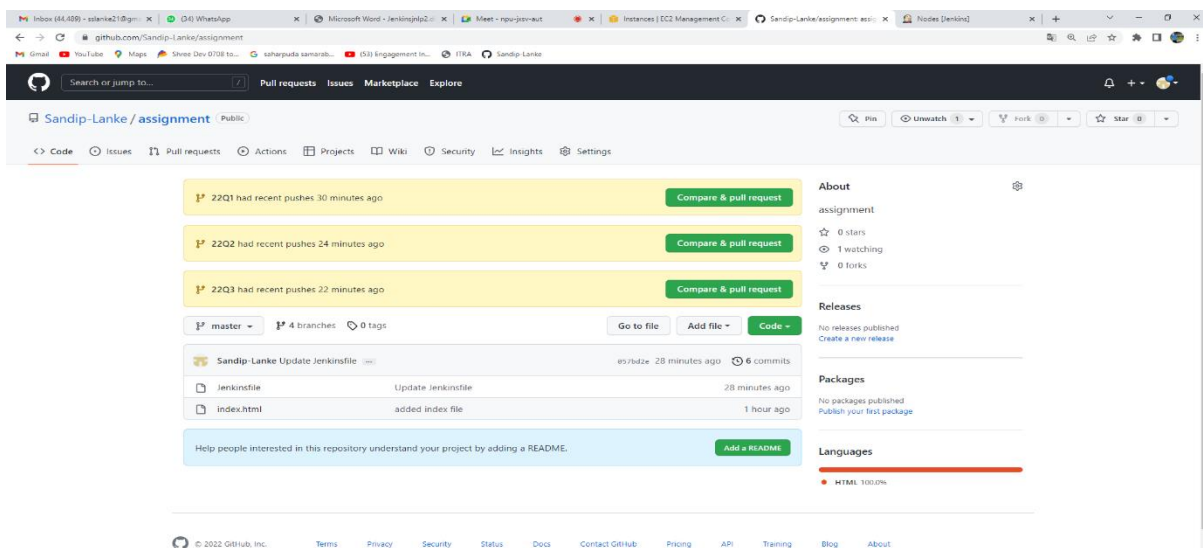
- Creating new dir for this assignment in JM (/mnt/assignment)
- Creating index.html file and Jenkinsfile on JM



```
root@ip-172-31-38-73:/mnt/assignment
total 8
drwxr-xr-x 7 root root 94 Sep 27 17:31 ..
-rw-r--r-- 1 root root 52 Sep 27 17:33 index.html
-rw-r--r-- 1 root root 301 Sep 27 18:10 Jenkinsfile
drwxr-xr-x 3 root root 55 Sep 27 18:10 .
drwxr-xr-x 8 root root 166 Sep 27 18:11 .git
[root@ip-172-31-38-73 assignment]# cat index.html
<h1> This is Assignment 1 </h1>

For master Branch
[root@ip-172-31-38-73 assignment]# cat Jenkinsfile
pipeline {
    agent {
        label 'built-in'
    }
    stages {
        stage ('master') {
            steps {
                sh "yum install httpd -y"
                sh "service httpd start"
                sh "cp -r index.html /var/www/html/"
                sh "chmod -R 777 /var/www/html/index.html"
            }
        }
    }
}
```

- Create one new repository and push all this files in remote repo.

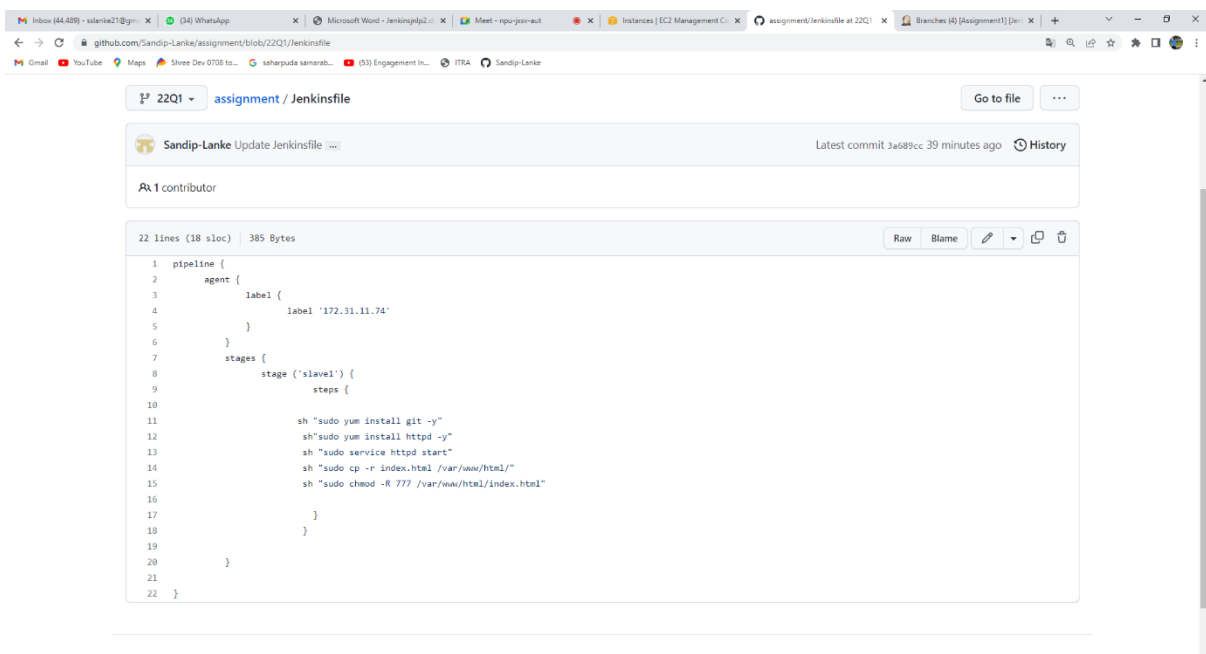
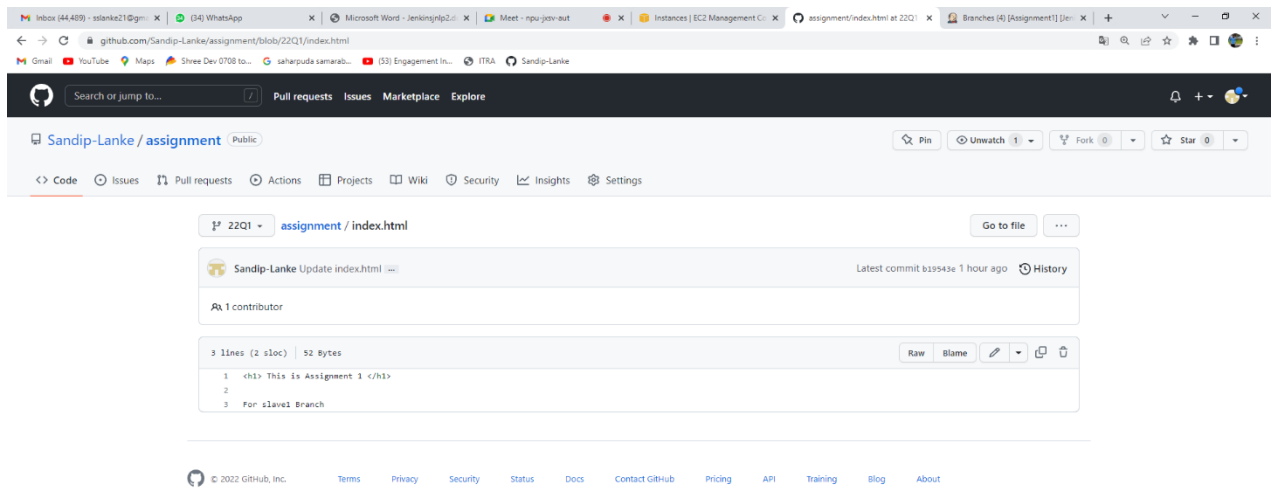


## Step 3. Creating new Pipeline through multibranch pipeline

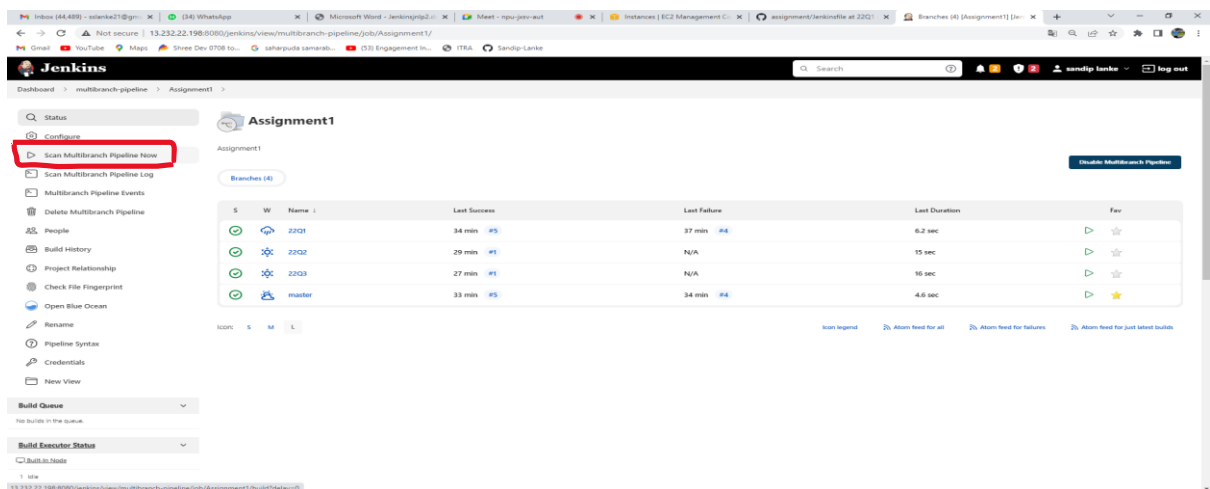
The screenshot shows the Jenkins configuration page for a multibranch pipeline named 'Assignment1'. The 'General' tab is selected. The 'Assignment1' text box is empty. Below it, the 'Disable' checkbox is unchecked, with the text '(No new builds within this Multibranch Pipeline will be executed until it is re-enabled)'. The 'Branch Sources' section contains a 'Git' project repository with the URL 'https://github.com/Sandip-Lanke/assignment.git'. The 'Credentials' dropdown is set to '- none -'. There is an '+ Add' button. The 'Behaviors' section is empty. At the bottom, there are 'Save' and 'Apply' buttons.

The screenshot shows the Jenkins configuration page for a multibranch pipeline named 'Assignment1', with the 'Branch Sources' tab selected. The 'Add' button is at the top. The 'Property strategy' dropdown is set to 'All branches get the same properties'. The 'Build Configuration' section has 'Mode' set to 'by Jenkinsfile' and 'Script Path' set to 'Jenkinsfile'. The 'Scan Multibranch Pipeline Triggers' section has the 'Periodically if not otherwise run' checkbox unchecked. The 'Orphaned Item Strategy' section has the 'Discard old items' checkbox checked, with 'Days to keep old items' set to '1'. At the bottom, there are 'Save' and 'Apply' buttons.

- **Creating new 22Q1 from master and update index file and Jenkins file.**



## Step 4. Scan Multibranch pipeline



```
Dashboard > multibranch-pipeline > Assignment1 > 22Q2 > #1

Running transaction test
Transaction test succeeded
Running transaction
Installing : apoc-1.7.0-9-micro_v86_64 1/9
Installing : apoc-utl-0.0-1.6.1-5-micro_v86_64 2/9
Installing : apoc-utl-1.6.1-5-micro_v86_64 3/9
Installing : httpd-tools-2.4.54-1-micro_v86_64 4/9
Installing : httpdfilesystem-2.4.54-1-micro_v86_64 5/9
Installing : generic-logs-httpd-10.0-4-micro_v86_64 6/9
Installing : mailcap-2.41-2-micro_v86_64 7/9
Installing : mod_httpd-1.15.19-1-micro_v86_64 8/9
Installing : httpd-2.4.54-1-micro_v86_64 9/9
Verifying : apoc-utl-1.6.1-5-micro_v86_64 1/9
Verifying : apoc-utl-0.0-1.6.1-5-micro_v86_64 2/9
Verifying : httpd-tools-2.4.54-1-micro_v86_64 3/9
Verifying : mod_httpd-1.15.19-1-micro_v86_64 4/9
Verifying : httpd-2.4.54-1-micro_v86_64 5/9
Verifying : mailcap-2.41-2-micro_v86_64 6/9
Verifying : generic-logs-httpd-10.0-4-micro_v86_64 7/9
Verifying : httpdfilesystem-2.4.54-1-micro_v86_64 8/9
Verifying : apoc-1.7.0-9-micro_v86_64 9/9

Installed:
httpd_v86_64 0:2.4.54-1.micro2

Dependency Installed:
apoc_v86_64 0:1.7.0-9-micro2
apoc-utl_v86_64 0:1.6.1-5-micro2.0.2
apoc-utl-0.0_v86_64 0:1.6.1-5-micro2.0.2
generic-logs-httpd_v86_64 0:10.0-4-micro2
httpdfilesystem_v86_64 0:2.4.54-1.micro2
httpd-tools_v86_64 0:2.4.54-1.micro2
mailcap_v86_64 0:2.41-2-micro2
mod_httpd_v86_64 0:1.15.19-1.micro2.0.1

Complete!
[Pipeline] sh
+ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
[Pipeline] sh
+ sudo cp -r index.html /var/www/html/
[Pipeline] sh
+ sudo chown -R www:www /var/www/html/index.html
[Pipeline] // stage
[Pipeline] // withrow
[Pipeline] // node
[Pipeline] End of Pipeline
#status: SUCCESS
```

- step 5. Creating new 22Q2 from 22Q1 and update index file and Jenkins file.
- Scan Multibranch pipeline
- Creating new 22Q3 from 22Q2 and update index file and Jenkins file.
- Scan Multibranch pipeline

Dashboard > multibranch-pipeline > Assignment1

Assignment1

Branches (4)

S	W	Name	Last Success	Last Failure	Last Duration	Fav
✓	🔧	22Q1	45 min #5	48 min #4	6.2 sec	▶ ☆
✓	🔧	22Q2	40 min #1	N/A	15 sec	▶ ☆
✓	🔧	22Q3	38 min #1	N/A	16 sec	▶ ☆
✓	🔧	master	43 min #5	45 min #4	4.6 sec	▶ ☆

Icon: S M L

Icon legend

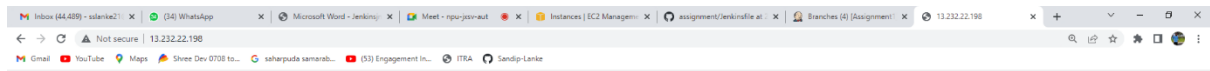
Atom feed for all

Atom feed for failures

Atom feed for just latest builds

## Output:

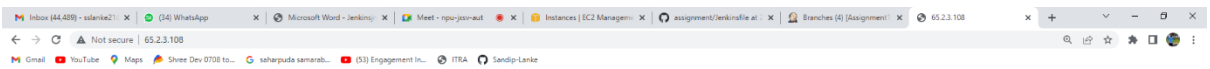
### 1.For Master



## This is Assignment 1

For master Branch

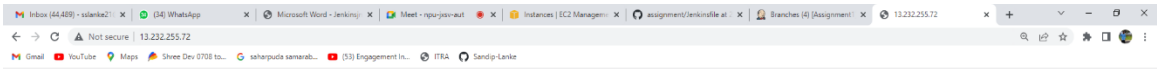
### 2.For slave 1



## This is Assignment 1

For slave1 Branch

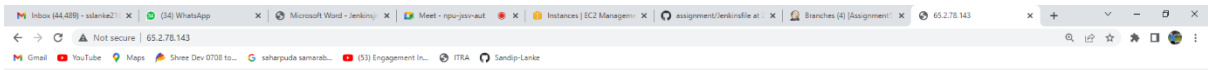
### 3.For Slave2



# This is Assignment 1

For slave2 Branch

### 4.For Slave 3



# This is Assignment 1

For slave3 Branch