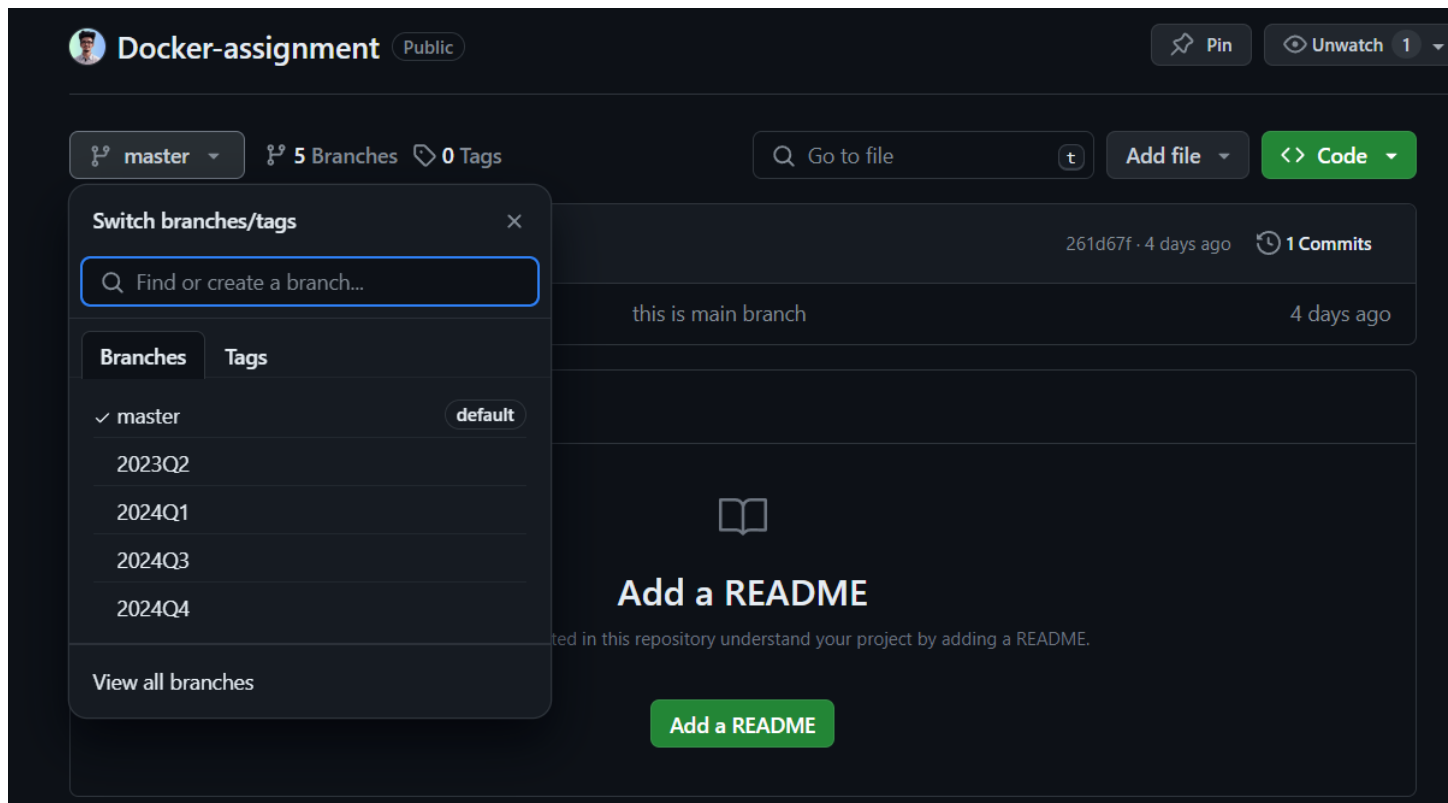


## Docker Assignment 2

Scenario : Deploy the Git repository, which has two branches named 2024Q1 and 2024Q2 and contains a file named index.html, on two Jenkins slaves. Use SSH connections on port 80 for both slaves.

1. Launch an EC2 instance.
2. Install Java 11 on the instance.
3. Install Tomcat.
4. Download the Jenkins WAR file into the webapps folder of Tomcat and initiate Tomcat.
5. Create a GitHub repository with two branches, as depicted in the screenshot below, and add an index.html file to it.



- ❖ Establish SSH connections between the master and slaves.
- ❖ Set up home root paths for the slaves, naming them "slave-1" and "slave-2" for the respective slaves.
- ❖ Configure SSH connections with appropriate settings/

Slave-1 Configure :

Dashboard > Nodes > slave-1 > Configure

Open Blue Ocean

Build Executor Status

1 Idle

2 Idle

3 Idle

4 Idle

5 Idle

Remote root directory ?

/mnt/slave-1

Labels ?

slave1

Usage ?

Use this node as much as possible

Launch method ?

Launch agents via SSH

Host ?

172.31.8.221

Credentials ?

ec2-user (this is slave ssh connection)

+ Add

Save

Slave-2 Configure :

Dashboard > Nodes > slave-2 > Configure

built-in node (0 of 12 executors busy)

Labels ?

slave2

Usage ?

Use this node as much as possible

Launch method ?

Launch agents via SSH

Host ?

172.31.36.46

Credentials ?

ec2-user (ssh connection)

+ Add

Host Key Verification Strategy ?

Manually trusted key Verification Strategy

Save

Node Home Page :

Nodes							
S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	4.88 GB	0 B	4.88 GB	0ms
	slave-1	Linux (amd64)	In sync	4.88 GB	0 B	4.88 GB	96ms
	slave-2	Linux (amd64)	In sync	5.96 GB	0 B	5.96 GB	36ms
Data obtained		1 min 34 sec	1 min 34 sec	1 min 34 sec	1 min 34 sec	1 min 34 sec	1 min 34 sec

- ❖ Create a job named "doc-assignment2" here, choose the pipeline option, and configure it as shown in the screenshot below.

Dashboard > doc-assignment2 > Configuration

Plain text [Preview](#)

### Configure

- General
- Advanced Project Options
- Pipeline

☒ Discard old builds ?

Strategy  
Log Rotation

Days to keep builds  
if not empty, build records are only kept up to this number of days  
4

Max # of builds to keep  
if not empty, only up to this number of build records are kept  
5

Advanced

### Pipeline

Definition  
Pipeline script

Script ?

```
1 pipeline {  
2   agent {  
3     label 'Slave-1'  
4   }  
5   stages{  
6     stage('For slave-1') {  
7       steps {  
8         sh "sudo yum install git -y"  
9         sh "sudo yum install docker -y"  
10      }  
11    }  
12  }  
13 }  
14  
15  
16  
17
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save Apply

- ❖ Now we have successfully created the job doc-assignment2.
- ❖ Lets try to build it now.

Dashboard > doc-assignment2 >

- Build Now
- Configure
- Delete Pipeline
- Full Stage View
- Favorite
- Open Blue Ocean
- Rename
- Pipeline Syntax

### Stage View

No data available. This Pipeline has not yet run.

### Permalinks

- Last build (#1), 28 sec ago

### Build History

trend

Filter builds...

#1  
Mar 12, 2024, 6:18 AM

Atom feed for all Atom feed for failures

Finally after lots of port binding error we solve the all issues and successfully build done.

Dashboard > doc-assignment2 > #10

Status

Changes

Console Output

Edit Build Information

Delete build '#10'

Open Blue Ocean

✓

Build #10 (Mar 12, 2024, 9:12:40 AM)

Started by user sanket chaudhari

This is slave-1 output :

Instances | EC2 | ap-south-1 x doc-assignment2 [Jenkins] x Inbox (230) - sanketchaudhari2 x sanketchaudhari45/Docker-assi x 3.108.53.101:90 x +

← → ↻ Not secure 3.108.53.101:90

Dashboard - Flipkar... Upstox Upstox Pro Sensibull - India's L... (24) Feed | LinkedIn Console Home | Co... Your Repositories Instances | EC2 | ap-...

This is index file for 2024Q1

This is slave-2 output :

Instances | EC2 | ap-south-1 x 13.127.247.82 x doc-assignment2 [Jenkins] x

← → ↻ Not secure 13.127.247.82

Dashboard - Flipkar... Upstox Upstox Pro Sensibull - India's L... (24) Feed | LinkedIn Console Home | Co.

This is index file for 2024Q2