

Docker assignment 2

Create Jenkins declarative pipeline to build and three httpd container name c1,c2,c3 with port 80,90,8001 respectively from single repo which has three branch 2025Q1, 2025Q2, 2025Q3 and each has serving unique index.html file and verify the access of each

Note: deploy pipeline on slave machine

Dashboard > docker assignment 2 >

Status

Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

Builds

Filter

Today

#23 9:09 AM

#22 9:07 AM

docker assignment 2

Permalinks

- Last build (#22), 1 min 4 sec ago
- Last stable build (#22), 1 min 4 sec ago
- Last successful build (#22), 1 min 4 sec ago
- Last failed build (#20), 8 min 31 sec ago
- Last unsuccessful build (#20), 8 min 31 sec ago
- Last completed build (#22), 1 min 4 sec ago

docker assignment 2 Config - jenkins

Docker Permission Error Soluti...

Instances | EC2 | ap-south-1

15.206.163.169/index.html

docker-httpd/index.html at 20...

15.207.16.58:8080/jenkins/job/docker%20assignment%202/configure

Dashboard > docker assignment 2 > Configuration

Configure

General

Triggers

Pipeline

Advanced

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script

Script

```
1~ pipeline {
2~ agent {
3~   label {
4~     label 'slave'
5~   }
6~ }
7~ stages {
8~   stage('Clone') {
9~     steps {
10~       git url: 'https://github.com/Poojak134/docker-httpd.git', branch: 'main'
11~     }
12~   }
13~   stage('Pull') {
14~     steps {
15~       sh '''
```

Use Groovy Sandbox

Save

Apply

33°C

Rain showers

Search

ENG IN

02:40 PM

13-05-2025

Jenkins

Dashboard > docker assignment 2 > #23 > Pipeline Console

✓ #23 Rebuild Configure ...

Manually run by admin Started 2 min 12 sec ago Queued 1 ms Took 7.3 sec

Graph

```

graph LR
    Start((Start)) --> Clone((Clone))
    Clone --> Pull((Pull))
    Pull --> SetupContainers[Setup Containers]
    SetupContainers --> End((End))
    SetupContainers --> c1[c1-branch 2025Q1]
    SetupContainers --> c2[c2-branch 2025Q2]
    SetupContainers --> c3[c3-branch 2025Q3]
  
```

Search

- Clone 0.63 sec
- Pull 2.8 sec
- Setup Containers 2.2 sec
 - c1-branch 2025Q1 2.2 sec

c3-branch 2025Q3 2.1 sec Started 2 min 7 sec ago slave

```

Git >
sudo docker run -dp 8083:80 --name c3 httpd:latest sudo docker cp index.html c3:/usr/local/apache2/htdocs/index.html sudo do...
0 + sudo docker run -dp 8083:80 --name c3 httpd:latest
1 dbc1633ff17e0a26cc345078aa15a122eaa15a1bcf1ba52e820fd1a3f6c3ee85
2 + sudo docker cp index.html c3:/usr/local/apache2/htdocs/index.html
  
```

← → ↻ ⚠ Not secure 15.206.163.169/index.html

this is 2025Q1 branch

```

pipeline {
  agent {
    label {
      label 'slave'
    }
  }
  stages {

```

```
stage('Clone') {
    steps {
        git url: 'https://github.com/Poojak134/docker-httpd.git', branch: 'main'
    }
}
stage('Pull') {
    steps {
        sh '''
            sudo docker pull httpd:latest
            sudo docker rm -f c1 c2 c3 || true
        '''
    }
}
stage('Setup Containers') {
    parallel {
        stage('c1-branch 2025Q1') {
            steps {
                dir('workspace-c1') {
                    git url: 'https://github.com/Poojak134/docker-httpd.git', branch: '2025Q1'
                    sh '''
                        sudo docker run -dp 80:80 --name c1 httpd:latest
                        sudo docker cp index.html c1:/usr/local/apache2/htdocs/index.html
                        sudo docker exec c1 chmod 777 /usr/local/apache2/htdocs/index.html
                    '''
                }
            }
        }
        stage('c2-branch 2025Q2') {
```

```
steps {
  dir('workspace-c2') {
    git url: 'https://github.com/Poojak134/docker-httpd.git', branch: '2025Q2'
    sh '''
      sudo docker run -dp 90:80 --name c2 httpd:latest
      sudo docker cp index.html c2:/usr/local/apache2/htdocs/index.html
      sudo docker exec c2 chmod 777 /usr/local/apache2/htdocs/index.html
    '''
  }
}

stage('c3-branch 2025Q3') {
  steps {
    dir('workspace-c3') {
      git url: 'https://github.com/Poojak134/docker-httpd.git', branch: '2025Q3'
      sh '''
        sudo docker run -dp 8001:80 --name c3 httpd:latest
        sudo docker cp index.html c3:/usr/local/apache2/htdocs/index.html
        sudo docker exec c3 chmod 777 /usr/local/apache2/htdocs/index.html
      '''
    }
  }
}
```