



Docker assignment 4


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 here also add the deployment with docker volume

Note: deploy on slave machine


Dashboard > docker-assignment > docker-assignment-4 >

 Status


 Changes


 Build Now


 Configure

 Delete Pipeline

 Stages

 Rename

 Pipeline Syntax

 **docker-assignment-4**

Permalinks

- [Last build \(#2\), 4 min 6 sec ago](#)
- [Last stable build \(#2\), 4 min 6 sec ago](#)
- [Last successful build \(#2\), 4 min 6 sec ago](#)
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Builds

⋮ 

 Filter

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Today

 #2 3:38 PM

▼

 #1 3:35 PM

▼

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 'slave'
4   }
5   stages {
6     stage('Clone') {
7       steps {
8         git url: 'https://github.com/Poojak134/docker-httpd.git', branch: 'main'
9       }
10    }
11    stage('Pull') {
12      steps {
13        sh '''
14          sudo docker pull httpd:latest
15          sudo docker rm -f c1 c2 c3 || true
16        '''
17      }
18    }
19  }
20 }
```

☒ Use Groovy Console ?

Dashboard > docker-assignment > docker-assignment-4 > #2 > Pipeline Console

#2 Rebuild Configure ...

Manually run by admin Started 2 min 54 sec ago Queued 7 ms Took 6.3 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]
```

Clone 0.67 sec

Pull 2.5 sec

Setup Containers 2.4 sec

c1-branch 2025Q1 2.3 sec

c3-branch 2025Q3 2.3 sec Started 2 min 53 sec ago slave

Git > 0.72 sec

sudo docker run -dp 8083:80 --name c3 -v c3-webdata:/usr/local/apache2/htdocs httpd:latest sudo docker cp index.html c3:/usr... 0.81 sec

+ sudo docker run -dp 8083:80 --name c3 -v c3-webdata:/usr/local/apache2/htdocs httpd:latest

1 9cc9dc9b217d4c74deac6defa47ab64dd35d93ee41452519d85e2294ef7734ea

2 sudo docker cp index.html c3:/usr/local/apache2/htdocs/index.html

27°C Mostly cloudy 09:11 PM 15-05-2025

Dashboard > docker-assignment > docker-assignment-4 > #2

```
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[c2-branch 2025Q2] + sudo docker cp index.html c2:/usr/local/apache2/htdocs/index.html
+ sudo docker exec c2 chmod 777 /usr/local/apache2/htdocs/index.html
[Pipeline] }
[Pipeline] // dir
[Pipeline] }
[Pipeline] // stage
[c1-branch 2025Q1] + sudo docker cp index.html c1:/usr/local/apache2/htdocs/index.html
+ sudo docker exec c1 chmod 777 /usr/local/apache2/htdocs/index.html
[Pipeline] }
[Pipeline] }
[Pipeline] // dir
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // parallel
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



Not secure

13.203.192.110:8082/index.html

this is first file

```
pipeline {
  agent {
    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 -v c1-webdata:/usr/local/apache2/htdocs  
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 -v c2-webdata:/usr/local/apache2/htdocs
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 -v c3-webdata:/usr/local/apache2/htdocs
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
            '''
        }
    }
}
}
```