

Docker assignment 1

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

The image shows two screenshots of the Jenkins web interface. The top screenshot displays the 'Configure' page for the 'assignment1-docker' pipeline. The 'Pipeline' tab is selected, and the 'Definition' is set to 'Pipeline script'. The Groovy script defines a declarative pipeline with three stages: 'clone', 'Pull', and 'Setup Containers'. The 'clone' stage clones the repository from GitHub. The 'Pull' stage pulls the latest Docker image and removes existing containers. The 'Setup Containers' stage is currently empty. The bottom screenshot shows the Jenkins dashboard for the 'assignment1-docker' pipeline. The pipeline is in a 'Success' state. The 'Builds' section shows a list of recent builds, all of which are successful. The 'Permalinks' section provides links to the last build, last stable build, last successful build, last failed build, last unsuccessful build, and last completed build.

Configure

Pipeline

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

Definition

Pipeline script

```
1 pipeline {
2   agent any
3   stages {
4     stage('clone') {
5       steps {
6         git url: 'https://github.com/Poojak134/docker-httpd.git', branch: 'main'
7       }
8     }
9     stage('Pull') {
10      steps {
11        sh 'docker pull httpd:latest'
12        sh 'docker rm -f c1 c2 c3 || true'
13      }
14    }
15    stage('Setup Containers') {
```

☒ Use Groovy Sandbox

Save **Apply**

Jenkins

Dashboard > assignment1-docker

assignment1-docker [Add description](#)

Permalinks

- Last build (#25), 33 sec ago
- Last stable build (#25), 33 sec ago
- Last successful build (#25), 33 sec ago
- Last failed build (#21), 7 min 29 sec ago
- Last unsuccessful build (#21), 7 min 29 sec ago
- Last completed build (#25), 33 sec ago

Builds

Filter

Today

- #25 7:19 AM
- #24 7:18 AM
- #23 7:18 AM
- #22 7:14 AM

Instances | EC2 | ap-south-1 | assignment1-docker #22 Console | 15.207.16.58

← → ↻ ⚠ Not secure 15.207.16.58:8080/jenkins/job/assignment1-docker/22/console ☆ 📄 ⓘ ⋮

Dashboard > assignment1-docker > #22

```
[c1-branch 2025Q1] + docker cp index.html c1:/usr/local/apache2/htdocs/index.html
+ docker exec c1 chmod 777 /usr/local/apache2/htdocs/index.html
[c2-branch 2025Q2] + docker cp index.html c2:/usr/local/apache2/htdocs/index.html
+ docker exec c2 chmod 777 /usr/local/apache2/htdocs/index.html
[c3-branch 2025Q3] + docker cp index.html c3:/usr/local/apache2/htdocs/index.html
+ docker exec c3 chmod 777 /usr/local/apache2/htdocs/index.html
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] }
[Pipeline] // stage
[Pipeline] // script
[Pipeline] }
[Pipeline] }
[Pipeline] // stage
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // parallel
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Air: Moderate Today

Search

ENG IN 12:47 PM 13-05-2025

Stages

▶ Build

Configure

Stages

May 13, 2025

| | |
|--------------------------|---------------------|
| ✓ #25 12:49 - 7.4 sec | ○ ✓ - ✓ - ✓ - ✓ - ○ |
| ✓ #24 12:48 - 7.8 sec | ○ ✓ - ✓ - ✓ - ✓ - ○ |
| ✓ #23 12:48 - 7.8 sec | ○ ✓ - ✓ - ✓ - ✓ - ○ |
| ✓ #22 12:44 - 6.6 sec | ○ ✓ - ✓ - ✓ - ✓ - ○ |



⚠ Not secure

15.207.16.58:90

this is first file

Pipeline for master

```
pipeline {
  agent any

  stages {
    stage('Clone') {
      steps {
        git url: 'https://github.com/Poojak134/docker-httpd.git', branch: 'main'
      }
    }

    stage('Pull') {
      steps {
        sh 'docker pull httpd:latest'
        sh 'docker rm -f c1 c2 c3 || true'
      }
    }

    stage('Setup Containers') {
      parallel {
        stage('c1-branch 2025Q1') {
          steps {
            script {
              sh '''
                git checkout 2025Q1
                docker run -dp 80:80 --name c1 httpd:latest
                docker cp index.html c1:/usr/local/apache2/htdocs/index.html
                docker exec c1 chmod 777 /usr/local/apache2/htdocs/index.html
              '''
            }
          }
        }
      }
    }
  }
}
```

```
    }
  }
  stage('c2-branch 2025Q2') {
    steps {
      script {
        sh '''

          git checkout 2025Q2

          docker run -dp 90:80 --name c2 httpd:latest

          docker cp index.html c2:/usr/local/apache2/htdocs/index.html

          docker exec c2 chmod 777 /usr/local/apache2/htdocs/index.html

        '''
      }
    }
  }
  stage('c3-branch 2025Q3') {
    steps {
      script {
        sh '''

          git checkout 2025Q3

          docker run -dp 8001:80 --name c3 httpd:latest

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

          docker exec c3 chmod 777 /usr/local/apache2/htdocs/index.html

        '''
      }
    }
  }
}
```

}

}