

Jenkins assignment 10

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

Create job in declarative pipeline

Dashboard > assignment 8 > jenkins-assignment-10 >

Status

jenkins-assignment-10

Changes

Build Now

Configure

Delete Pipeline

Stages

Rename

Pipeline Syntax

GitHub Hook Log

Permalinks

- [Last build \(#2\), 4 days 15 hr ago](#)
- [Last stable build \(#2\), 4 days 15 hr ago](#)
- [Last successful build \(#2\), 4 days 15 hr ago](#)
- [Last completed build \(#2\), 4 days 15 hr ago](#)

Configure

General

Triggers

Pipeline

Advanced

Plain text Preview

☒ Discard old builds ?

Strategy

Log Rotation

Days to keep builds

if not empty, build records are only kept up to this number of days

5

Max # of builds to keep

if not empty, only up to this number of build records are kept

2

Advanced

Configure

- General
- Triggers
- Pipeline
- Advanced

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☒ GitHub hook trigger for GITScm polling ?
- ☐ Poll SCM ?
- ☐ Trigger builds remotely (e.g., from scripts) ?

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 { label 'master' }
3
4   stages {
5     stage('Checkout Repositories') {
6       steps {
7         dir('master') {
8           git url: 'https://github.com/Poojak134/master.git', branch: 'main'
9         }
10        dir('dev') {
11          git url: 'https://github.com/Poojak134/dev.git', branch: 'main'
12        }
13        dir('QA') {
14          git url: 'https://github.com/Poojak134/QA.git', branch: 'main'
15        }
16      }
17    }
18  }
19 }
```

☒ Use Groovy Sandbox ?

Status

- Changes
- Console Output
- Edit Build Information
- Delete build '#2'
- Polling Log
- Timings
- Git Build Data
- Git Build Data
- Git Build Data
- Pipeline Console
- Replay
- Pipeline Steps

✔ #2 (May 11, 2025, 6:40:16 PM)



Started by GitHub push by Poojak134



This run spent:

- 7.9 sec waiting;
- 14 sec build duration;
- 22 sec total from scheduled to completion.



Revision: 2cb6678b9ac181150f6803069ff4ba727314b34e
Repository: <https://github.com/Poojak134/master.git>

- refs/remotes/origin/main



Revision: 6e6bb1f2cca2c3ab84e02255b529a73aba6853bb
Repository: <https://github.com/Poojak134/dev.git>

- refs/remotes/origin/main



Revision: 21abaa49af873bf34d37dfc5d8238d51c6326e35
Repository: <https://github.com/Poojak134/QA.git>

- refs/remotes/origin/main

Dashboard > assignment 8 > jenkins-assignment-10 > #2 > Pipeline Console

✓ < #2

▶ Rebuild

Configure

⋮

🕒 Started 4 days 15 hr ago 🕒 Queued 7.8 sec 🕒 Took 14 sec

Graph



🔍 Search

✓ Checkout Repositories 2.5 sec

✓ Install HTTPD 1 sec

✓ Deploy index.html 9.6 sec

✓ Deploy index.html

🕒 9.6 sec

🕒 Started 4 days 15 hr ago

🖨 master-slave

⋮

✓ Verify if file exists in workspace master/index.html >

25 ms

🔗

✓ sudo cp master/index.html /var/www/html/index.html >

0.28 sec

🔗

✓ Verify if file exists in workspace dev/index.html >

🔗

Dashboard > assignment 8 > jenkins-assignment-10 > #2

```
[Pipeline] stage
[Pipeline] { (Deploy index.html)
[Pipeline] script
[Pipeline] {
[Pipeline] fileExists
[Pipeline] sh
+ sudo cp master/index.html /var/www/html/index.html
[Pipeline] fileExists
[Pipeline] sh
+ sudo cp dev/index.html /var/www/html/index.html
[Pipeline] fileExists
[Pipeline] sh
+ sudo cp QA/index.html /var/www/html/index.html
[Pipeline] sh
+ sudo chmod 644 /var/www/html/index.html
+ sudo systemctl restart httpd
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

```
pipeline {
  agent { label 'master' }

  stages {
    stage('Checkout Repositories') {
      steps {
        dir('master') {
          git url: 'https://github.com/Poojak134/master.git', branch: 'main'
        }
        dir('dev') {
          git url: 'https://github.com/Poojak134/dev.git', branch: 'main'
        }
        dir('QA') {
          git url: 'https://github.com/Poojak134/QA.git', branch: 'main'
        }
      }
    }

    stage('Install HTTPD') {
      steps {
        sh '''
          sudo yum install -y httpd
        '''
      }
    }
  }
}
```

```
        sudo systemctl start httpd

        sudo systemctl enable httpd
    ""
}
}

stage('Deploy index.html') {
    steps {
        script {
            // Define the target directory for the index.html file
            def targetDir = '/var/www/html/index.html'

            // Copy the index.html from each repository if it exists
            if (fileExists('master/index.html')) {
                sh "sudo cp master/index.html ${targetDir}"
            }
            if (fileExists('dev/index.html')) {
                sh "sudo cp dev/index.html ${targetDir}"
            }
            if (fileExists('QA/index.html')) {
                sh "sudo cp QA/index.html ${targetDir}"
            }

            // Set the appropriate permissions and restart Apache
            sh ""

            sudo chmod 644 /var/www/html/index.html

            sudo systemctl restart httpd
        ""
    }
}
```

```
}  
}  
}  
}  
}
```