

Jenkins assignment 9

create three Git repositories named `master`, `dev`, and `qa`, each with an `index.html` file containing a unique script message, set up an Amazon Linux 2 EC2 instance with Jenkins and Apache HTTPD, configure three Jenkins jobs to monitor changes in each repository, and ensure that changes to `index.html` in the `master`, `dev`, or `qa` repositories trigger their respective jobs to deploy the updated `index.html` to the Apache web root, replacing the previous `index.html` file, while verifying the deployment and securing the setup?

Create job in declarative pipeline

Status

</> Changes

▶ Build Now

⚙️ Configure

🗑️ Delete Pipeline

📁 Stages

✏️ Rename

🔍 Pipeline Syntax

Builds

Filter

May 11, 2025

✔️ #33 6:40 PM

✔️ #32 6:35 PM

Configure

⚙️ General

🕒 Triggers

📄 Pipeline

🔧 Advanced

jenkins-assignment-9

Permalinks

- [Last build \(#33\), 4 days 15 hr ago](#)
- [Last stable build \(#33\), 4 days 15 hr ago](#)
- [Last successful build \(#33\), 4 days 15 hr ago](#)
- [Last failed build \(#28\), 4 days 15 hr ago](#)
- [Last unsuccessful build \(#28\), 4 days 15 hr ago](#)
- [Last completed build \(#33\), 4 days 15 hr ago](#)

Pipeline

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

Definition

Pipeline script

Script ?

```
1 pipeline {
2   agent { label 'built-in' }
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 '#33'

📄 Polling Log

🕒 Timings

🔗 Git Build Data

🔗 Git Build Data

🔗 Git Build Data

📄 Pipeline Console

🔄 Replay

📄 Pipeline Steps

📄 Workspaces

🔗 Pipeline Build



#33 (May 11, 2025, 6:40:16 PM)



Started by GitHub push by Poojak134



This run spent:

- 7.9 sec waiting;
- 8.5 sec build duration;
- 16 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



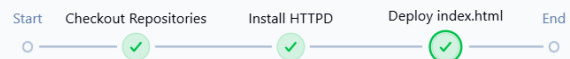
No changes.

```
[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
```

✓ < #33

🕒 Started 4 days 15 hr ago 🕒 Queued 7.8 sec 🕒 Took 8.5 sec

Graph



🔍 Search

✓ Checkout Repositories 2.6 sec

✓ Install HTTPD 1.6 sec

✓ Deploy index.html 2.9 sec

✓ Deploy index.html

✓ Verify if file exists in workspace [master/index.html](#) >

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

✓ Verify if file exists in workspace [dev/index.html](#) >

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

```
pipeline {
```

```
    agent { label 'built-in' }
```

```
    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
    ""
}
}
}
}
}
```