


















## Jenkins Multi-Branch Pipeline for GitFlow with SCM

 **Maulin\_Gitflow\_4**


[Disable Multibranch Pipeline](#)


Branches (4)


S	W	Name ↓	Last Success	Last Failure	Last Duration
		develop	4 min 23 sec <a href="#">#1</a>	N/A	4.4 sec 
		feature	4 min 23 sec <a href="#">#1</a>	N/A	4.2 sec 
		main	4 min 23 sec <a href="#">#1</a>	N/A	3 sec 
		release	4 min 23 sec <a href="#">#1</a>	N/A	2.8 sec 


**Jenkins**      admin


Dashboard >


+ New Item 

 Build History







 Manage Jenkins

 My Views

Build Queue   
No builds in the queue.

Build Executor Status   
1 Idle

All +

S	W	Name ↓	Last Success	Last Failure	Last Duration
		Maulin_Gitflow--3	28 min <a href="#">log</a>	N/A	0.63 sec
		Maulin_Gitflow_4	7 min 39 sec <a href="#">log</a>	N/A	0.64 sec
		sample-job	31 min <a href="#">#1</a>	N/A	0.28 sec

Icon: S M L

### CODE:

```
pipeline {
  agent any
  environment {
    REPO_URL = 'https://github.com/maulin-architect/Maulin_jenkins.git'
  }
  stages {
    stage('Checkout') {
      steps {
        script {
          // Checkout the correct branch based on trigger
          checkout scm
        }
      }
    }
  }
}
```

```
    }  
  }  
}
```

```
stage('Build') {  
  steps {  
    echo ' Building ...'  
    // sh 'make build' // Or another build command  
  }  
}
```

```
stage('Unit Tests') {  
  steps {  
    echo ' Testing ...'  
    // sh 'make test-unit' // Run unit tests  
  }  
}
```

```
stage('Static Code Analysis') {  
  steps {  
    echo 'static code analysis'  
    // sh 'make lint' // Or another static analysis tool  
  }  
}
```

```
stage('Deploy to Staging') {  
  
  when {  
    branch 'develop'  
  }  
}
```

```
steps {  
    echo 'Deploying to Statging in case of develop branch only'  
    //sh 'make deploy-staging' // Deploys develop branch to staging  
}  
}
```

```
stage('Integration Tests') {  
    when {  
        branch 'develop'  
    }  
    steps {  
        echo ' in Develop branch doing Integration Tests'  
        // sh 'make test-integration' // Run integration tests on staging  
    }  
}
```

```
stage('Create Release Artifact') {  
    when {  
        branch pattern: "release/*.*", comparator: "REGEXP"  
    }  
    steps {  
        echo ' in Release branch creating Release Artifact'  
        // sh 'make build-release' // Build the release artifact  
        // archiveArtifacts artifacts: 'build/*.jar', fingerprint: true  
    }  
}
```

```
stage('Deploy to Production') {  
    when {  
        branch 'main'  
    }  
}
```

```

    steps {

        echo 'Deploying'

        // sh 'make deploy-prod' // Deploy main branch to production
    }
}
}

post {
    success {
        echo 'Pipeline completed successfully!'
    }
    failure {
        echo 'Pipeline failed!'
    }
}
}

```

### Scan Multibranch Pipeline Log

Started by user [admin](#)

[Fri Nov 15 07:57:17 UTC 2024] Starting branch indexing...

> git --version # timeout=10

> git --version # 'git version 2.40.1'

> git ls-remote --symref -- [https://github.com/maulin-architect/Maulin\\_jenkins.git](https://github.com/maulin-architect/Maulin_jenkins.git) # timeout=10

> git rev-parse --resolve-git-dir /var/lib/jenkins/caches/git-99e2b04f2d6f44693da483d3fa17e50d/.git # timeout=10

Setting origin to [https://github.com/maulin-architect/Maulin\\_jenkins.git](https://github.com/maulin-architect/Maulin_jenkins.git)

> git config remote.origin.url [https://github.com/maulin-architect/Maulin\\_jenkins.git](https://github.com/maulin-architect/Maulin_jenkins.git) # timeout=10

Fetching & pruning origin...

Listing remote references...

> git config --get remote.origin.url # timeout=10

> git --version # timeout=10

```
> git --version # 'git version 2.40.1'
> git ls-remote -h -- https://github.com/maulin-architect/Maulin\_jenkins.git # timeout=10
Fetching upstream changes from origin
> git config --get remote.origin.url # timeout=10
> git fetch --tags --force --progress --prune -- origin +refs/heads/*:refs/remotes/origin/* #
timeout=10
Checking branches...
Checking branch develop
  'Jenkinsfile' found
  Met criteria
No changes detected: develop (still at d16e29de467d3ed18e7c4ce151854f7a212e4f31)
Checking branch main
  'Jenkinsfile' found
  Met criteria
No changes detected: main (still at 8daccb571d539b67637ee3b0cce48d5859258278)
Checking branch feature
  'Jenkinsfile' found
  Met criteria
No changes detected: feature (still at b6e839951cc59f8461d77631d5e9fe618e759b32)
Checking branch release
  'Jenkinsfile' found
  Met criteria
No changes detected: release (still at 98831d5ed3097fdac2b20e95b3ed96c514c9b064)
Processed 4 branches
[Fri Nov 15 07:57:18 UTC 2024] Finished branch indexing. Indexing took 0.64 sec
Finished: SUCCESS
```

## CONSOLE OUTPUT

**Branch Name:** main

Branch indexing

```
> git rev-parse --resolve-git-dir /var/lib/jenkins/caches/git-99e2b04f2d6f44693da483d3fa17e50d/.git # timeout=10
Setting origin to https://github.com/maulin-architect/Maulin\_jenkins.git
> git config remote.origin.url https://github.com/maulin-architect/Maulin\_jenkins.git # timeout=10
Fetching origin...
Fetching upstream changes from origin
> git --version # timeout=10
> git --version # 'git version 2.40.1'
> git config --get remote.origin.url # timeout=10
> git fetch --tags --force --progress -- origin +refs/heads/*:refs/remotes/origin/* # timeout=10
Seen branch in repository origin/develop
Seen branch in repository origin/main
Seen 2 remote branches
Obtained Jenkinsfile from b6e839951cc59f8461d77631d5e9fe618e759b32
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Maulin_Gitflow_3_main
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
Cloning repository https://github.com/maulin-architect/Maulin\_jenkins.git
> git init /var/lib/jenkins/workspace/Maulin_Gitflow_3_main # timeout=10
Fetching upstream changes from https://github.com/maulin-architect/Maulin\_jenkins.git
> git --version # timeout=10
> git --version # 'git version 2.40.1'
```

```

> git fetch --no-tags --force --progress -- https://github.com/maulin-architect/Maulin\_jenkins.git
+refs/heads/*:refs/remotes/origin/* # timeout=10

> git config remote.origin.url https://github.com/maulin-architect/Maulin\_jenkins.git # timeout=10

> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10

Avoid second fetch

Checking out Revision b6e839951cc59f8461d77631d5e9fe618e759b32 (main)

> git config core.sparsecheckout # timeout=10

> git checkout -f b6e839951cc59f8461d77631d5e9fe618e759b32 # timeout=10

Commit message: "Merge pull request #1 from maulin-architect/develop"

First time build. Skipping changelog.

[Pipeline] }

[Pipeline] // stage

[Pipeline] withEnv

[Pipeline] {

[Pipeline] withEnv

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Checkout)

[Pipeline] script

[Pipeline] {

[Pipeline] checkout

Selected Git installation does not exist. Using Default

The recommended git tool is: NONE

No credentials specified

> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Maulin_Gitflow_3_main/.git #
timeout=10

Fetching changes from the remote Git repository

> git config remote.origin.url https://github.com/maulin-architect/Maulin\_jenkins.git # timeout=10

Fetching without tags

Fetching upstream changes from https://github.com/maulin-architect/Maulin\_jenkins.git

> git --version # timeout=10

> git --version # 'git version 2.40.1'

```

```
> git fetch --no-tags --force --progress -- https://github.com/maulin-architect/Maulin\_jenkins.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
```

```
Checking out Revision b6e839951cc59f8461d77631d5e9fe618e759b32 (main)
```

```
> git config core.sparsecheckout # timeout=10
```

```
> git checkout -f b6e839951cc59f8461d77631d5e9fe618e759b32 # timeout=10
```

```
Commit message: "Merge pull request #1 from maulin-architect/develop"
```

```
[Pipeline] }
```

```
[Pipeline] // script
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Build)
```

```
[Pipeline] echo
```

```
Building ...
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Unit Tests)
```

```
[Pipeline] echo
```

```
Testing ...
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Static Code Analysis)
```

```
[Pipeline] echo
```

```
static code analysis
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Deploy to Staging)
```

```
Stage "Deploy to Staging" skipped due to when conditional
```



```
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Integration Tests)  
Stage "Integration Tests" skipped due to when conditional  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Create Release Artifact)  
Stage "Create Release Artifact" skipped due to when conditional  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Deploy to Production)  
[Pipeline] echo  
Deploying  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Declarative: Post Actions)  
[Pipeline] echo  
Pipeline completed successfully!  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline
```

*Finished: SUCCESS*

**Branch Name:** develop

Branch indexing

```
> git rev-parse --resolve-git-dir /var/lib/jenkins/caches/git-99e2b04f2d6f44693da483d3fa17e50d/.git # timeout=10
```

Setting origin to [https://github.com/maulin-architect/Maulin\\_jenkins.git](https://github.com/maulin-architect/Maulin_jenkins.git)

```
> git config remote.origin.url https://github.com/maulin-architect/Maulin_jenkins.git # timeout=10
```

Fetching origin...

Fetching upstream changes from origin

```
> git --version # timeout=10
```

```
> git --version # 'git version 2.40.1'
```

```
> git config --get remote.origin.url # timeout=10
```

```
> git fetch --tags --force --progress -- origin +refs/heads/*:refs/remotes/origin/* # timeout=10
```

Seen branch in repository origin/develop

Seen branch in repository origin/main

Seen 2 remote branches

Obtained Jenkinsfile from d16e29de467d3ed18e7c4ce151854f7a212e4f31

[Pipeline] Start of Pipeline

[Pipeline] node

Running on [Jenkins](#) in /var/lib/jenkins/workspace/Maulin\_Gitflow\_3\_develop

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Declarative: Checkout SCM)

[Pipeline] checkout

Selected Git installation does not exist. Using Default

The recommended git tool is: NONE

No credentials specified

Cloning the remote Git repository

Cloning with configured refspecs honoured and without tags

Cloning repository [https://github.com/maulin-architect/Maulin\\_jenkins.git](https://github.com/maulin-architect/Maulin_jenkins.git)

```
> git init /var/lib/jenkins/workspace/Maulin_Gitflow_3_develop # timeout=10
```

Fetching upstream changes from [https://github.com/maulin-architect/Maulin\\_jenkins.git](https://github.com/maulin-architect/Maulin_jenkins.git)

```
> git --version # timeout=10
```

```
> git --version # 'git version 2.40.1'
```

```
> git fetch --no-tags --force --progress -- https://github.com/maulin-architect/Maulin\_jenkins.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
```

```
> git config remote.origin.url https://github.com/maulin-architect/Maulin\_jenkins.git # timeout=10
```

```
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
```

Avoid second fetch

Checking out Revision d16e29de467d3ed18e7c4ce151854f7a212e4f31 (develop)

```
> git config core.sparsecheckout # timeout=10
```

```
> git checkout -f d16e29de467d3ed18e7c4ce151854f7a212e4f31 # timeout=10
```

Commit message: "Update Jenkinsfile"

First time build. Skipping changelog.

[Pipeline] }

[Pipeline] // stage

[Pipeline] withEnv

[Pipeline] {

[Pipeline] withEnv

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Checkout)

[Pipeline] script

[Pipeline] {

[Pipeline] checkout

Selected Git installation does not exist. Using Default

The recommended git tool is: NONE

No credentials specified

```
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Maulin_Gitflow_3_develop/.git #
timeout=10
```

Fetching changes from the remote Git repository

```
> git config remote.origin.url https://github.com/maulin-architect/Maulin\_jenkins.git # timeout=10
```

Fetching without tags

Fetching upstream changes from [https://github.com/maulin-architect/Maulin\\_jenkins.git](https://github.com/maulin-architect/Maulin_jenkins.git)

```
> git --version # timeout=10
```

```
> git --version # 'git version 2.40.1'
```

```
> git fetch --no-tags --force --progress -- https://github.com/maulin-architect/Maulin\_jenkins.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
```

Checking out Revision d16e29de467d3ed18e7c4ce151854f7a212e4f31 (develop)

```
> git config core.sparsecheckout # timeout=10
```

```
> git checkout -f d16e29de467d3ed18e7c4ce151854f7a212e4f31 # timeout=10
```

Commit message: "Update Jenkinsfile"

```
[Pipeline] }
```

```
[Pipeline] // script
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Build)
```

```
[Pipeline] echo
```

Building ...

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Unit Tests)
```

```
[Pipeline] echo
```

Testing ...

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Static Code Analysis)
```

```
[Pipeline] echo
```

static code analysis

```
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Deploy to Staging)  
[Pipeline] echo  
Deploying to Statging in case of develop branch only  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Integration Tests)  
[Pipeline] echo  
in Develop branch doing Integration Tests  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Create Release Artifact)  
Stage "Create Release Artifact" skipped due to when conditional  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Deploy to Production)  
Stage "Deploy to Production" skipped due to when conditional  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Declarative: Post Actions)  
[Pipeline] echo  
Pipeline completed successfully!  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }
```

```
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```