

### 01) What is Jenkins pipeline?

*Jenkins Pipeline (or simply "Pipeline") is a suite of plugins which supports implementing and integrating continuous delivery pipelines into Jenkins. A continuous delivery pipeline is an automated expression of your process for getting software from version control right through to your users and customers.*

### 02) What scripting language is Jenkins pipeline syntax based on?

**Groovy** programming language and you can also use **bash** scripting

### 03) What are the ways you can write pipeline in Jenkins?

*A Jenkinsfile can be written using two types of syntax **Declarative** and **Scripted**. Declarative and Scripted Pipelines are constructed fundamentally differently. Declarative Pipeline is a more recent feature of Jenkins Pipeline which: provides richer syntactical features over Scripted Pipeline syntax.*

### 04) Create jenkins pipeline for your repo and use script file (jenkinsfile) to write pipeline syntax ?

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/78mans/private-jenkins.git

Credentials ?

78mans/\*\*\*\*\*

+ Add

main

1 branch

0 tags

Go to file

Add file

<> Code

78mans

Create Jenkinsfile2421f32 12 minutes ago 4 commits

Dockerfile

Update Dockerfile5 days ago

Jenkinsfile

Create Jenkinsfile12 minutes ago

README.md

Initial commit5 days ago

## Stage View



### Declarative

```
checking your code
[Pipeline] echo
dev
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (test)
[Pipeline] echo
testing your app
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (deployment)
[Pipeline] echo
your code is deployed right now
[Pipeline] echo
this build number 1
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

05) Create another multibranch pipeline and filter branches to contain only (master , dev , test ) ?

main 3 branches 0 tags

Go to file Add file <> Code

Switch branches/tags

Find or create a branch...

Branches Tags

main default

dev

test

View all branches

Protection, or require status checks before merging. Learn more

Protect this branch

2421f32 48 minutes ago 4 commits

Update Dockerfile 5 days ago

Create Jenkinsfile 48 minutes ago

Initial commit 5 days ago

```
Checking branch main
Getting remote pull requests...
'Jenkinsfile' found
Met criteria
Scheduled build for branch: main

Checking branch dev
'Jenkinsfile' found
Met criteria
Scheduled build for branch: dev

Checking branch test
'Jenkinsfile' found
Met criteria
```



Disable Multibranch Pipeline

Branches (3) Pull Requests (0)

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀	dev	1 min 49 sec #1	N/A	29 sec ▶
✓	☀	main	1 min 49 sec #1	N/A	29 sec ▶
✓	☀	test	1 min 49 sec #1	N/A	38 sec ▶

Icon: S M L Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds