

01) What is Jenkins pipeline?

Pipeline is a powerful set of plugins that automate the process for getting software from version control right through to your users and customers(implementing CD)

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

Groovy programming language

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

Declarative Pipeline syntax and Scripted Pipeline syntax.

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

localhost:8080/job/first-pipeline/ 90% ☆

Jenkins Search (CTRL+K) ? 1 Hawila log out

Dashboard > first-pipeline >

Status

<> Changes

▶ Build Now

⚙️ Configure

🗑️ Delete Pipeline

🔍 Full Stage View

✎ Rename

🔍 Pipeline Syntax

Build History trend

Filter builds...

#2 Jan 31, 2023, 8:34 AM

#1 Jan 31, 2023, 8:32 AM

Atom feed for all Atom feed for failures

Pipeline first-pipeline

Lab2 PipeLine

Edit description Disable Project

Stage View

Average stage times:
(Average full run time: ~7s)

Declarative: Checkout SCM	Build stage	Test stage	Deploy stage
1s	196ms	101ms	108ms
1s	196ms	101ms	108ms

Permalinks

```
Jenkinsfile x
Jenkinsfile
1 pipeline {
2   agent any
3
4   stages{
5     stage('Build stage'){
6       steps{
7         echo "Building App..."
8       }
9     }
10
11    stage('Test stage'){
12      steps{
13        echo "Testing App..."
14      }
15    }
16
17    stage('Deploy stage'){
18      steps{
19        echo "Deploying App..."
20      }
21    }
22  }
23 }
```

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

Configuration

- General
- Branch Sources**
- Build Configuration
- Scan Multibranch Pipeline Triggers
- Orphaned Item Strategy
- Appearance
- Health metrics
- Properties

Hawila/***** (github token) ▼

+ Add

Repository HTTPS URL

Repository HTTPS URL ?

https://github.com/Hawila/nginx.git

Credentials ok. Connected to https://github.com/Hawila/nginx. Validate

Repository Scan - Deprecated Visualization

Behaviors

Filter by name (with wildcards)

Include ?

master* dev* test*

Exclude ?

Save Apply

```
[Tue Jan 31 09:09:16 UTC 2023] Starting branch indexing...
09:09:16 Connecting to https://api.github.com using Hawila/***** (github token)
Examining Hawila/nginx

Checking branches...

Getting remote branches...

Checking branch main

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

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

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

4 branches were processed

Finished examining Hawila/nginx

[Tue Jan 31 09:09:18 UTC 2023] Finished branch indexing. Indexing took 2.3 sec
Finished: SUCCESS
```

