

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.

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

- Groove programming language

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

- Scripted pipeline
- Declarative

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

The screenshot displays the Jenkins Pipeline configuration interface. On the left, the pipeline script is shown in a text editor, consisting of 11 lines of declarative syntax. The script defines a pipeline with an 'any' agent and a single stage named 'bulid stage' (sic) containing an 'echo' step. Below the script, a table shows the execution history of the pipeline, including commit details and stage execution times.

**Pipeline script from SCM**

SCM: **Git**

Repositories:

- Repository URL: `https://github.com/ehabashrafali/jt2`
- Credentials: `ehabashrafali/*****`
- Advanced... (button)
- Add Repository (button)

Branches to build:

- Branch Specifier (blank for 'any'): `*/main`
- Add Branch (button)

**Declarative: Checkout SCM**

**bulid stage**

Average stage times: 1s (Checkout SCM), 43ms (bulid stage)  
(Average full run time: ~3s)

Commit	Stage	Time
#5 Feb 13 24:11 2 commits	Declarative: Checkout SCM	1s
	bulid stage	43ms
#4 Feb 13 24:09 No Changes	Declarative: Checkout SCM	
	bulid stage	

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

Git

Project Repository ?

https://github.com/ehabashrafali/jt2

Credentials ?

ehabashrafali/\*\*\*\*\*

+ Add

Behaviors

Discover branches

?

Filter by name (with wildcards)

Include ?

dev main test

Exclude ?

Add

S	W	Name ↓	Last Success	Last Failure	Last Duration	
✓	☀	dev	16 sec #1	N/A	6.3 sec	▶
✓	☀	main	3 min 2 sec #1	N/A	3.7 sec	▶
✓	☀	test	17 sec #1	N/A	4.9 sec	▶