01) What is Jenkins pipeline?

Jenkins 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 the process for getting software from version control right through to your users and customers.

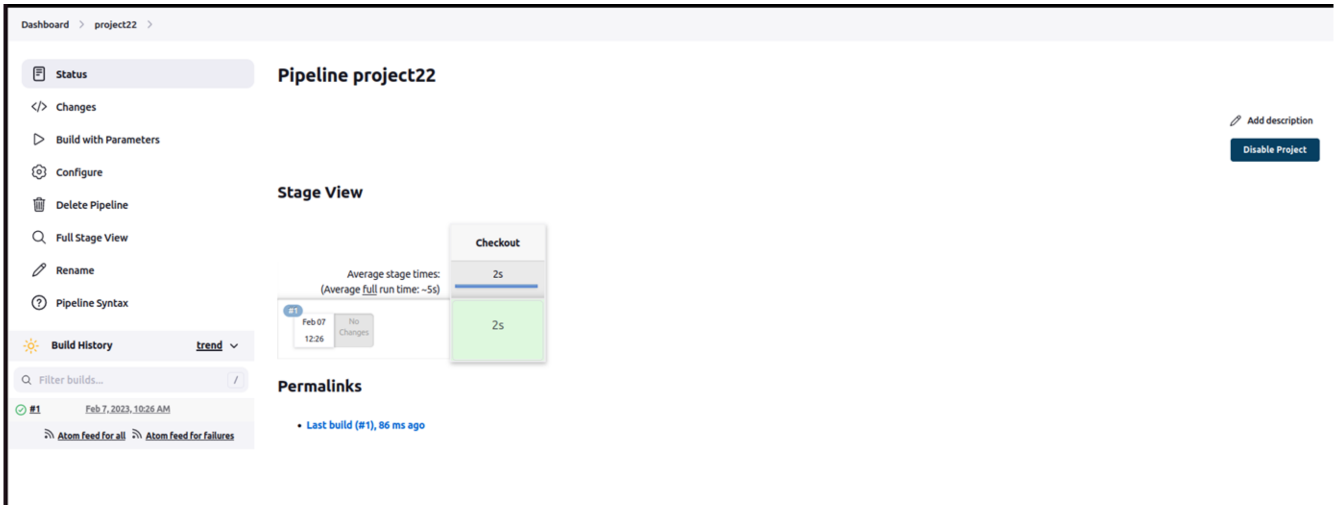
02) What scripting language is Jenkins pipeline syntax based on?

- Groovy programming language

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

- Declarative
- Scripted

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



#1 Feb 7, 2023, 10:26 AM

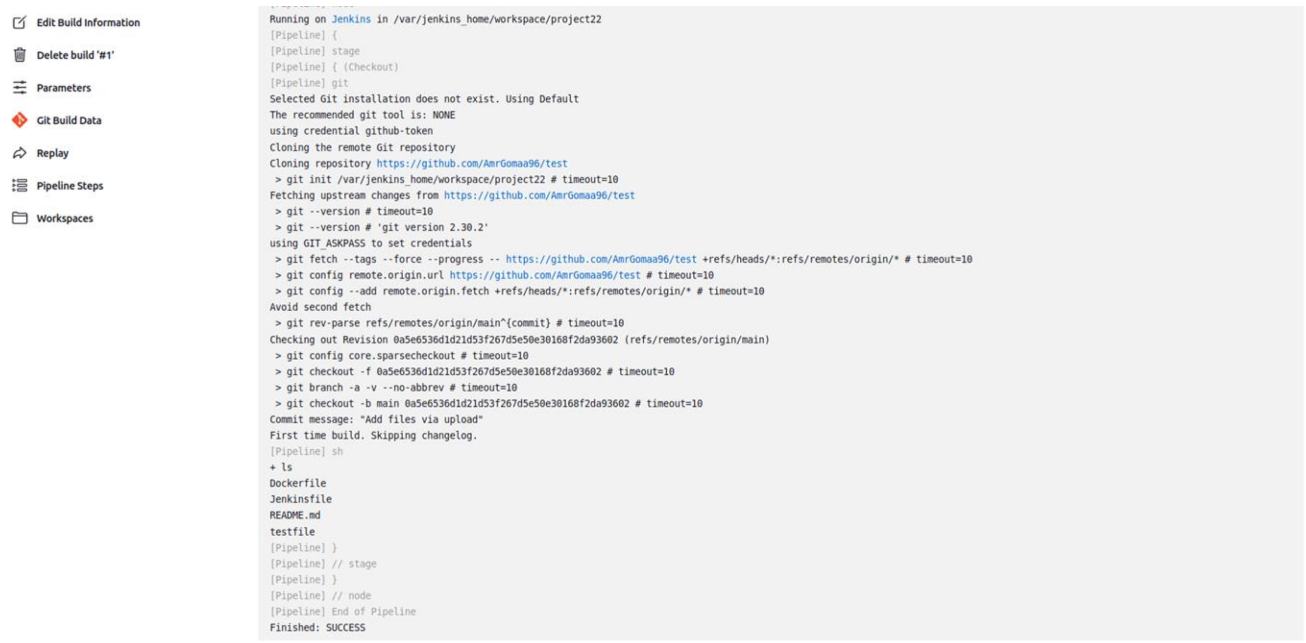
Pipeline project22

Stage View

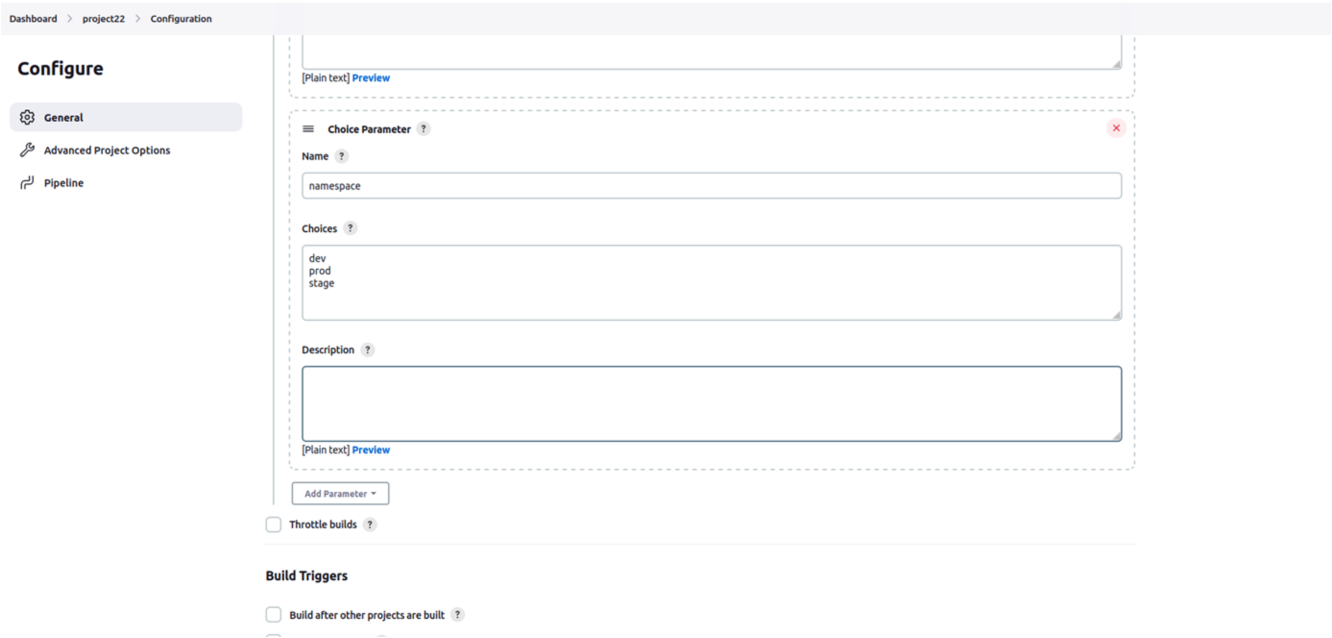
	Checkout
Average stage times: (Average full run time: ~5s)	2s
#1 Feb 07 12:26 No Changes	2s

Permalinks

- Last build (#1), 86 ms ago



```
Running on Jenkins in /var/jenkins_home/workspace/project22
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Checkout)
[Pipeline] git
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
using credential github-token
Cloning the remote Git repository
Cloning repository https://github.com/AmrGomaa96/test
 > git init /var/jenkins_home/workspace/project22 # timeout=10
Fetching upstream changes from https://github.com/AmrGomaa96/test
 > git --version # timeout=10
 > git --version # 'git version 2.30.2'
using GIT_ASKPASS to set credentials
 > git fetch --tags --force --progress -- https://github.com/AmrGomaa96/test +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git config remote.origin.url https://github.com/AmrGomaa96/test # timeout=10
 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 0a5e6536d1d21d53f267d5e50e30168f2da93602 (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 0a5e6536d1d21d53f267d5e50e30168f2da93602 # timeout=10
 > git branch -a -v --no-abbrev # timeout=10
 > git checkout -b main 0a5e6536d1d21d53f267d5e50e30168f2da93602 # timeout=10
Commit message: "Add files via upload"
First time build. Skipping changelog.
[Pipeline] sh
+ ls
Dockerfile
Jenkinsfile
README.md
testfile
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



Name ?

namespace

Choices ?

```
dev
prod
stage
```

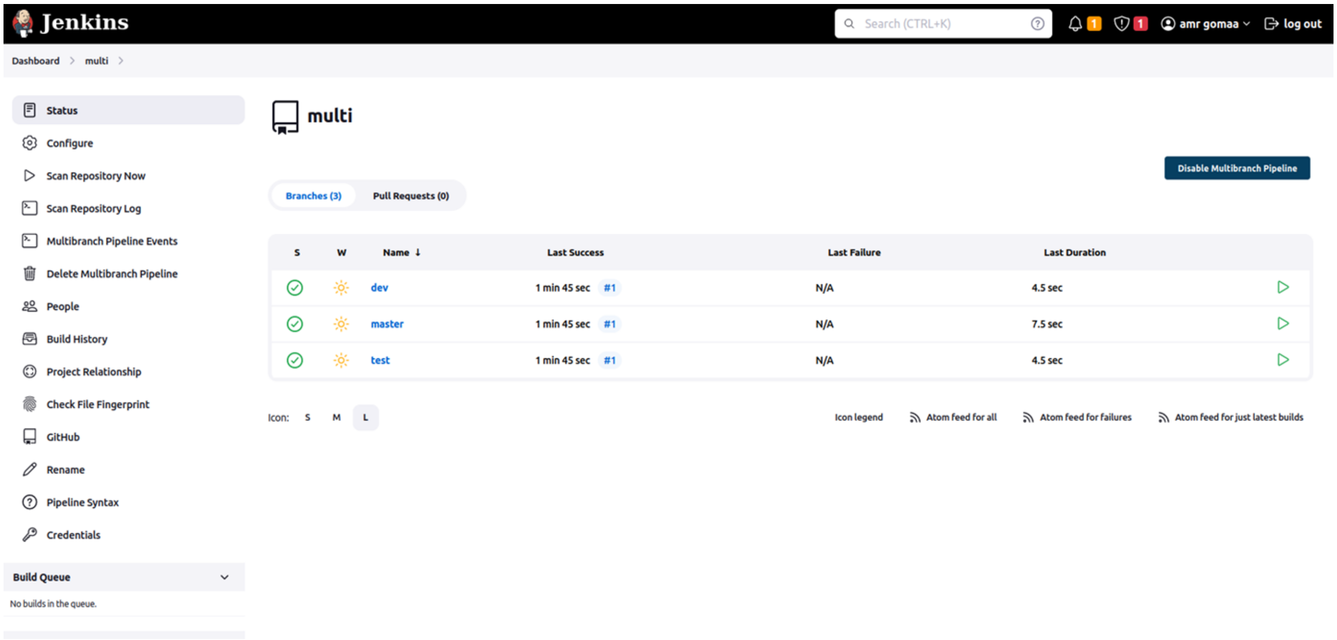
Description ?

[Plain text] Preview

□ Throttle builds ?

□ Build after other projects are built ?

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



S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀	dev	1 min 45 sec #1	N/A	4.5 sec
✓	☀	master	1 min 45 sec #1	N/A	7.5 sec
✓	☀	test	1 min 45 sec #1	N/A	4.5 sec