Creating Pipeline Using Jenkinsfile
~Neha Singh

Jenkinsfile: Jenkinsfile is a text file that contains the definition of a Jenkins Pipeline and is checked into source control.
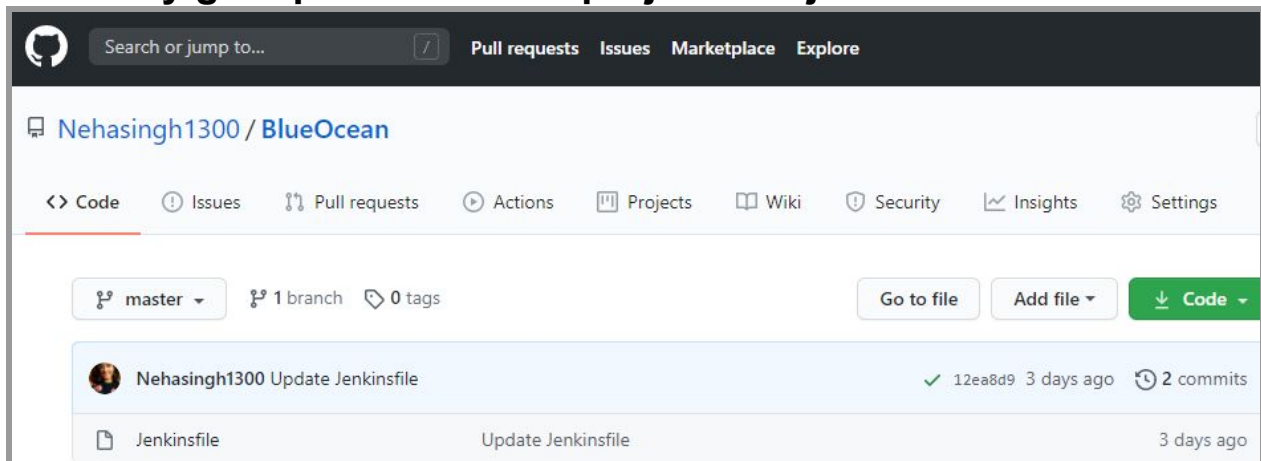
Benefits:

- Code review/iteration on the Pipeline
- Audit trail for the Pipeline
- Single source of truth for the Pipeline, which can be viewed and edited by multiple members of the project.

Make sure your Jenkins is up and running!

```
C:\Users\Neha\Downloads>java -jar jenkins.war
Running from: C:\Users\Neha\Downloads\jenkins.war
webroot: $user.home/.jenkins
2020-09-18 02:56:05.893+0000 [id=1]      INFO      org.eclipse.jetty.util.log.Log#i
2020-09-18 02:56:06.372+0000 [id=1]      INFO      winstone.Logger#logInternal: Beg
2020-09-18 02:56:06.598+0000 [id=1]      WARNING o.e.j.s.handler.ContextHandler#s
2020-09-18 02:56:06.793+0000 [id=1]      INFO      org.eclipse.jetty.server.Server#
2b7bb13ef5a92a927634b0d; jvm 1.8.0_231-b11
2020-09-18 02:56:12.019+0000 [id=1]      INFO      o.e.j.w.StandardDescriptorProces
et
2020-09-18 02:56:12.639+0000 [id=1]      INFO      o.e.j.s.s.DefaultSessionIdManage
2020-09-18 02:56:12.639+0000 [id=1]      INFO      o.e.j.s.s.DefaultSessionIdManage
2020-09-18 02:56:12.703+0000 [id=1]      INFO      o.e.j.server.session.HouseKeeper
2020-09-18 02:56:15.324+0000 [id=1]      INFO      hudson.WebAppMain#contextInitial
2020-09-18 02:56:15.989+0000 [id=1]      INFO      o.e.j.s.handler.ContextHandler#c
BLE}{C:\Users\Neha\.jenkins\war}
```

I have my git repo with maven project and jenkinsfile

Jenkinsfile Code

```
pipeline{
  agent any
  stages{
   stage('Build'){     // Stage 1
     steps{
     echo 'Build Stage'
     }
   }
   stage('Test'){      // Stage 2
     steps{
     echo 'Test Stage'
     }
   }
   stage('Clean'){      // Stage 2
     steps{
     echo 'Clean Stage'
     }
   }
  }
}
```

Configuration

General | Build Triggers | Advanced Project Options | Pipeline

Description
Using Jenkisfile to automate commands

[Plain text] Preview

Jira site

☐ Discard old builds   ❓

☐ Do not allow concurrent builds

☐ Do not allow the pipeline to resume if the master restarts

☐ GitHub project

☐ Pipeline speed/durability override   ❓

☐ Preserve stashes from completed builds   ❓

☐ This project is parameterized   ❓

☐ Throttle builds   ❓

Build Now
You can move to console and check if you get success

Build Success
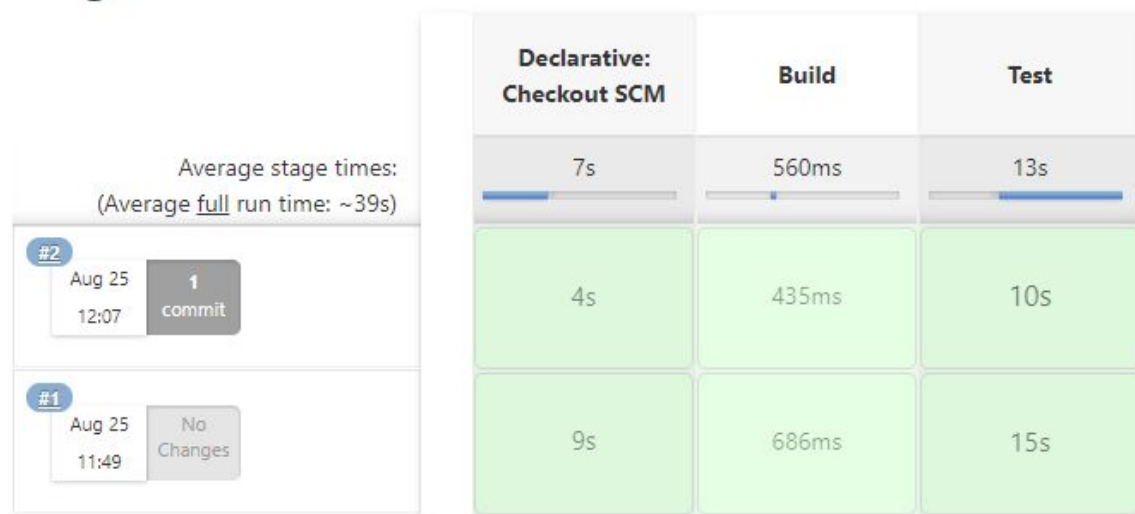
```
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ test.jenkinsfile ---
[INFO] No tests to run.
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  4.800 s
[INFO] Finished at: 2020-08-25T12:08:12+05:30
[INFO] ------------------------------------------------------------------------
```

You can see the stage view and links for other builds in past.

Stage View

	Declarative: Checkout SCM	Build	Test
Average stage times: (Average full run time: ~39s)	7s	560ms	13s
#2 Aug 25 12:07 — 1 commit	4s	435ms	10s
#1 Aug 25 11:49 — No Changes	9s	686ms	15s

Permalinks

- Last build (#2), 1 mo 18 days ago
- Last stable build (#2), 1 mo 18 days ago
- Last successful build (#2), 1 mo 18 days ago
- Last completed build (#2), 1 mo 18 days ago

That's all for this module