## Module 6: Jenkins Assignment - 3

### Tasks To Be Performed:

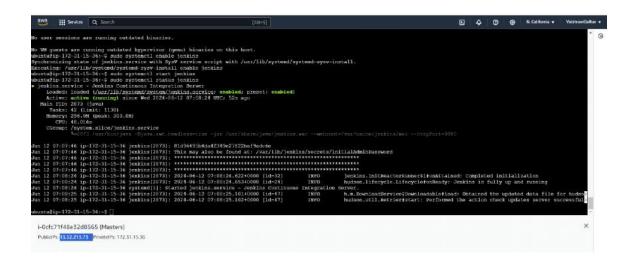
- 1. Create a pipeline in Jenkins
- 2. Once push is made to "develop" a branch in Git, trigger job "test". This will copy Git files to test node
- 3. If test job is successful, then prod job should be triggered
- 4. Prod jobs should copy files to prod node

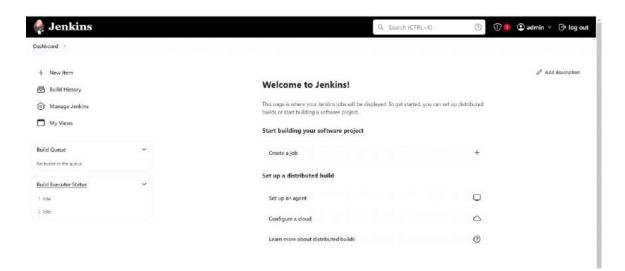
#### **SOLUTION:**

- 1. Create Jenkins Master & Two Jenkins Slave Machine
- A. Create Three Amazon EC2 Instances Named As Jenkins Master & Test & Prod

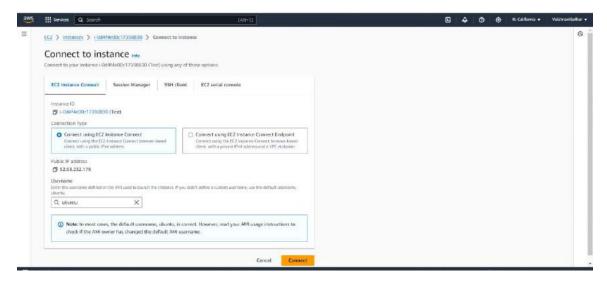


B. Install jenkins and Java on Masters

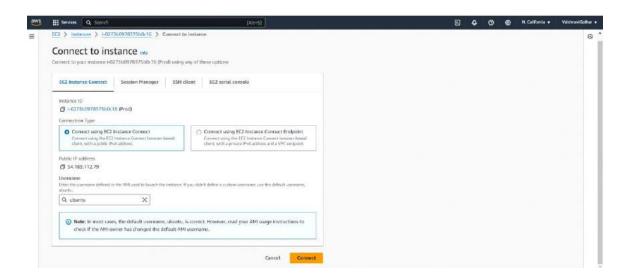




## C. Install "Java " over Slaves(Test and Prod) machine

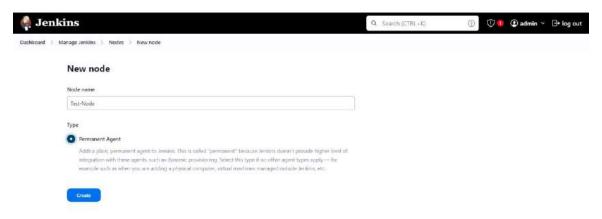








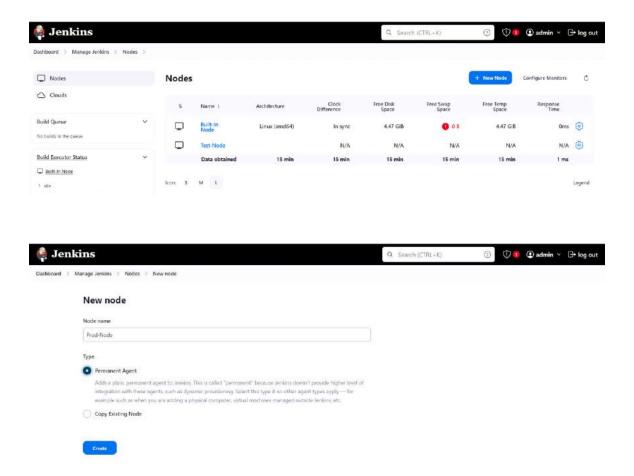
## D. Add Nodes (Test & Prod) in Jenkins-Master using .pem

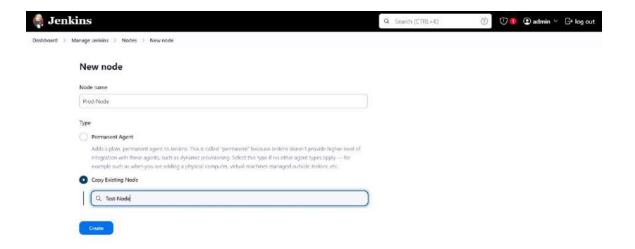


ubuntu@ip-172-31-4-129:~\$ mkdir jenkins ubuntu@ip-172-31-4-129:~\$ cd jenkins ubuntu@ip-172-31-4-129:~/jenkins\$ pwd /home/ubuntu/jenkins ubuntu@ip-172-31-4-129:~/jenkins\$

i-0d4f4e00c17398830 (Test)

PublicIPs: 52.53.232.179 PrivateIPs: 172.31.4.129

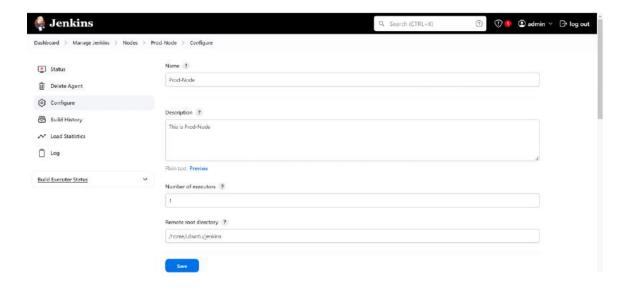




ubuntu@ip-172-31-9-199:~\$ mkdir jenkins
ubuntu@ip-172-31-9-199:~\$ cd jenkins
ubuntu@ip-172-31-9-199:~/jenkins\$ pwd
/home/ubuntu/jenkins
ubuntu@ip-172-31-9-199:~/jenkins\$ ^C
ubuntu@ip-172-31-9-199:~/jenkins\$

#### i-0273b0978375b0c16 (Prod)

PublicIPs: 54.183.112.79 PrivateIPs: 172.31.9.199



Dashboard > Manage Jerkins > Nodes > Prod-Node > Configure

Labels ?

prod

Usage ?

Use this node as much as possible

Launch method ?

Launch agents via SSH

Host ?

S4.183.112.79

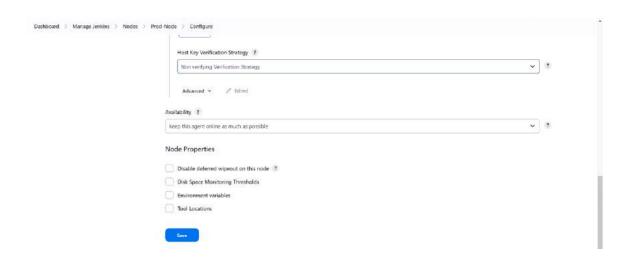
Credentials ?

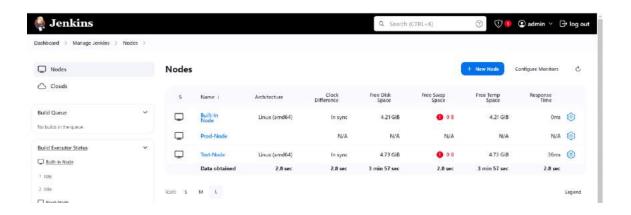
ubuntu (ssh-key)

+ Add =

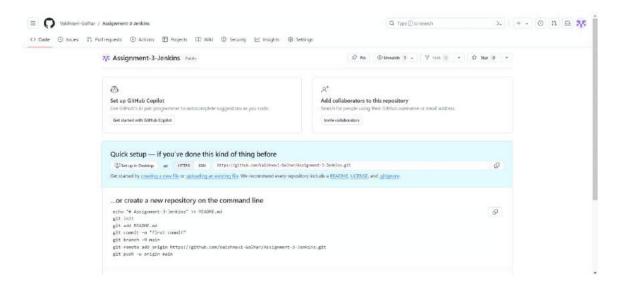
Host Key Verification Strategy ?

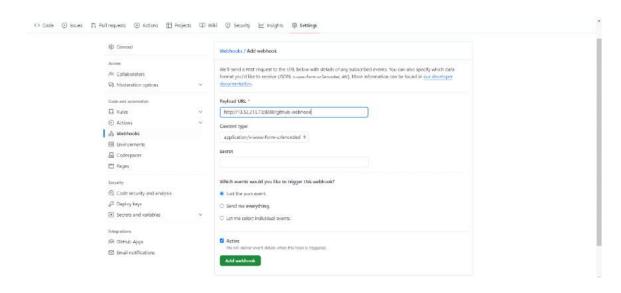
Non verifying Verification Strategy ?



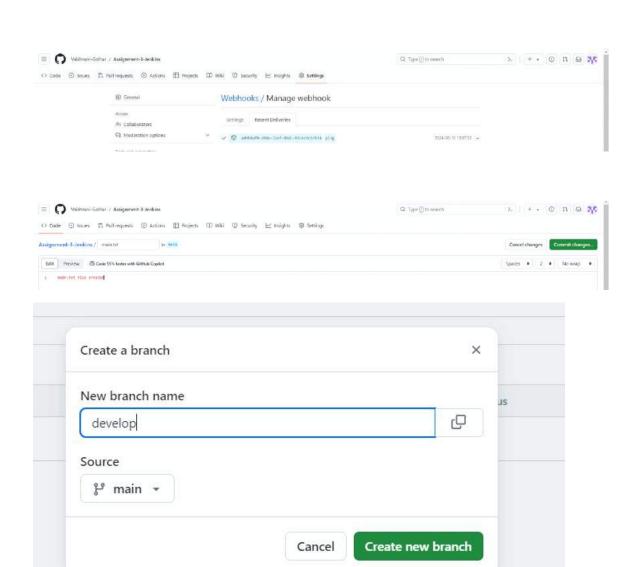


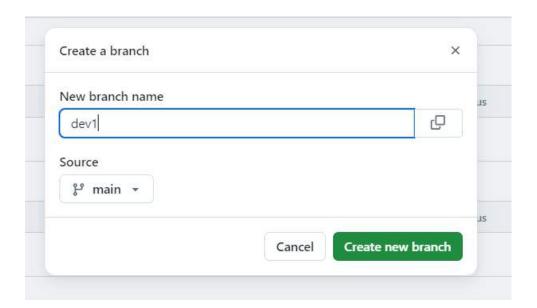
## 2. Create a Separate Git Hub Repository for this Assignment as "Assignment-3-Jenkins"

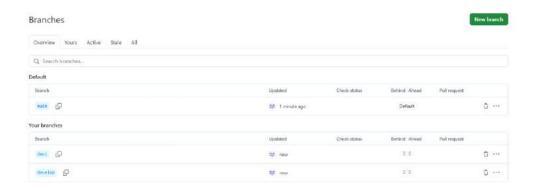


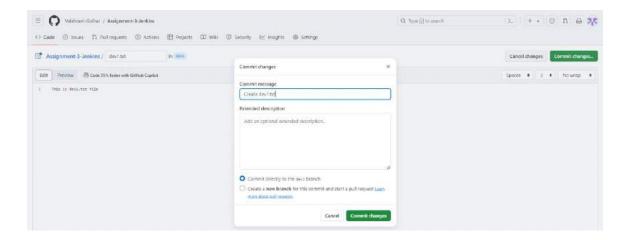


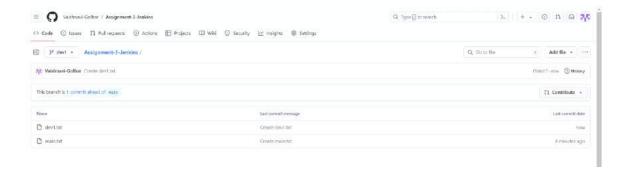


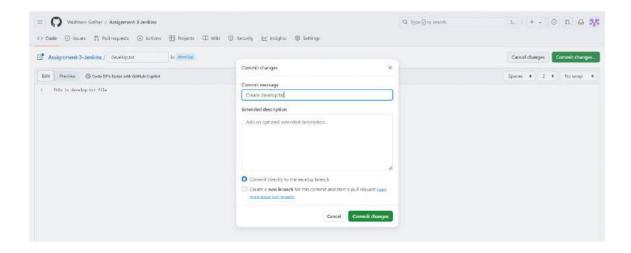


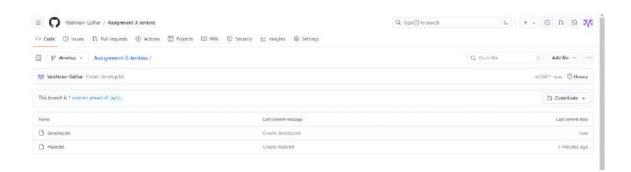






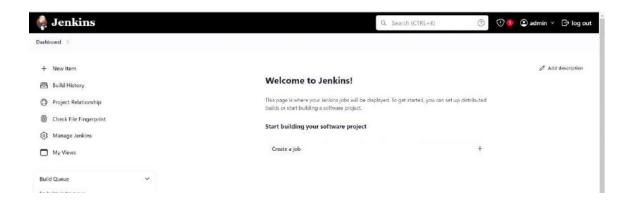


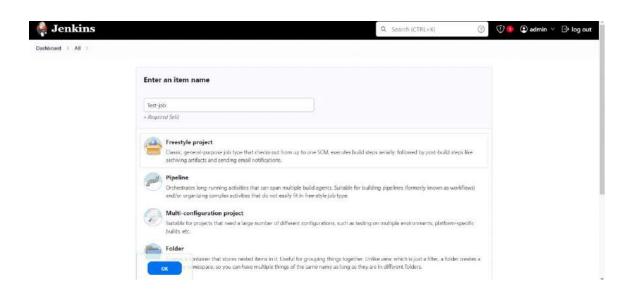


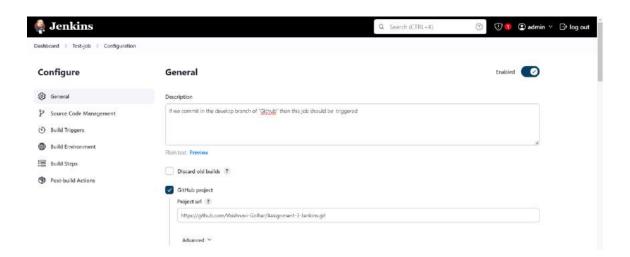


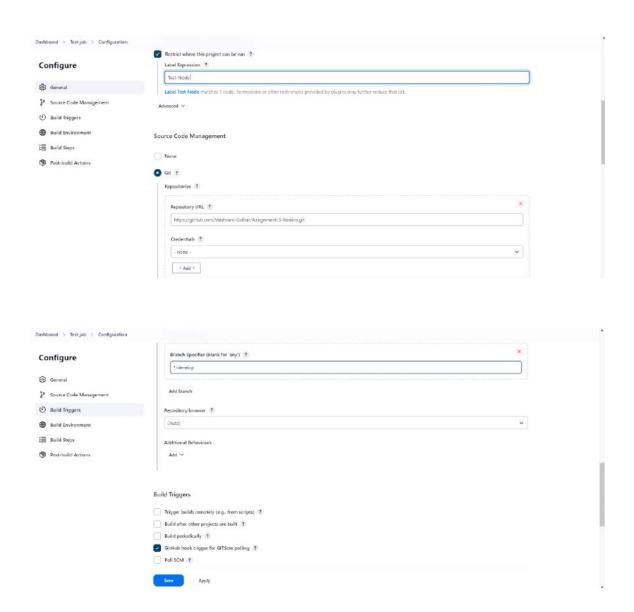
Problem (2) Solution: Once a push is made to "develop" a branch in Git, trigger job "test". This will copy Git files to test node

A. Create a Test Job & Put "develop" Branch Path Here

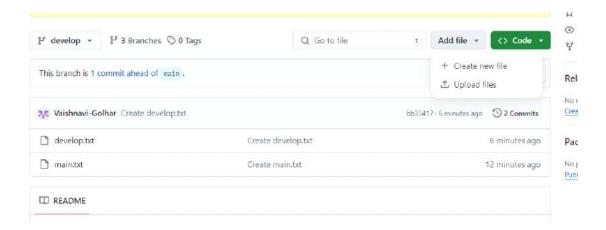


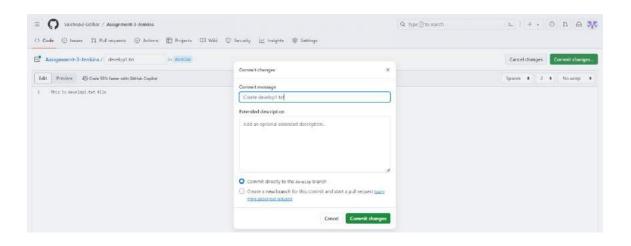




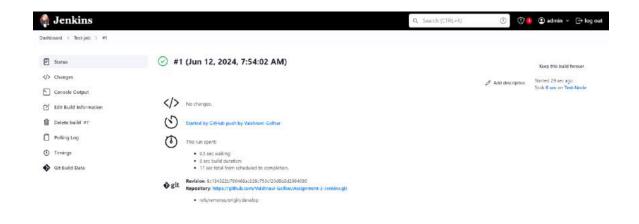


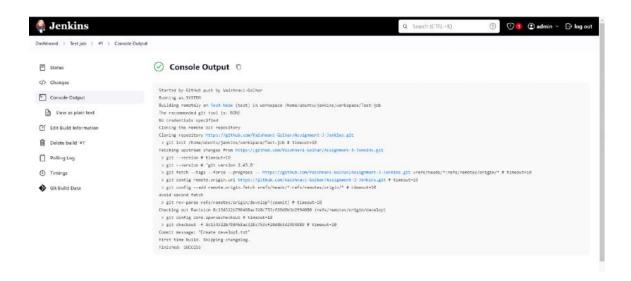
B. Commit in the "Develop" Branch & "Test" Job Should Be Automatically Triggered







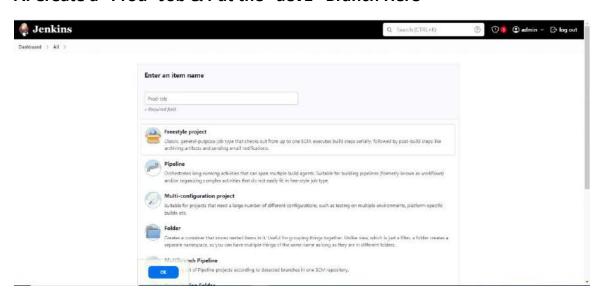




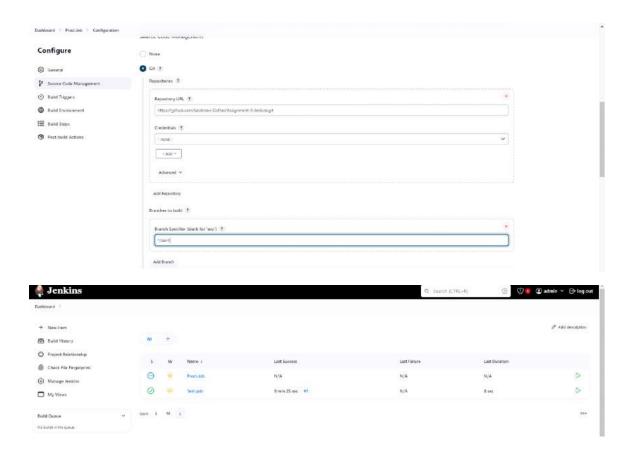
```
ubuntu@ip-172-31-4-129:~/jenkins$ pwd
/home/ubuntu/jenkins
ubuntu@ip-172-31-4-129:~/jenkins$ ls
remoting remoting.jar workspace
ubuntu@ip-172-31-4-129:~/jenkins$ cd workspace
ubuntu@ip-172-31-4-129:~/jenkins/workspace$ ls
Test-job
ubuntu@ip-172-31-4-129:~/jenkins/workspace$ ls
Test-job
ubuntu@ip-172-31-4-129:~/jenkins/workspace$ ls Test-job
develop.txt develop1.txt main.txt
ubuntu@ip-172-31-4-129:~/jenkins/workspace$
i-Od4f4eOOc17398830 (Test)
PublicIPs: 52.53.232.179 PrivateIPs: 172.31.4.129
```

# Problem (3) Solution: If the test job is successful, then the prod job should be triggered

### A. Create a "Prod" Job & Put the "dev1" Branch Here

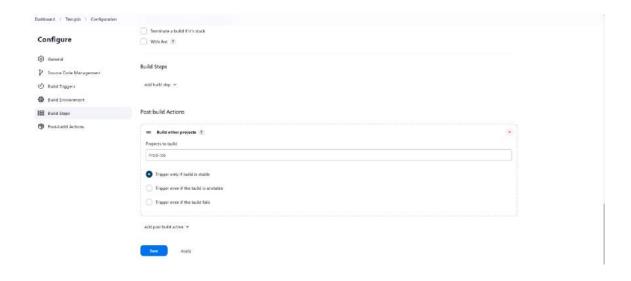


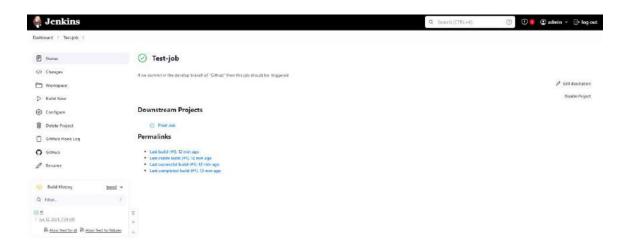




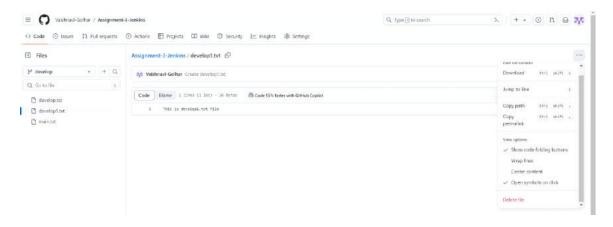
## B. Now, Add the "Prod" Job to "Test" for Automatically Triggering

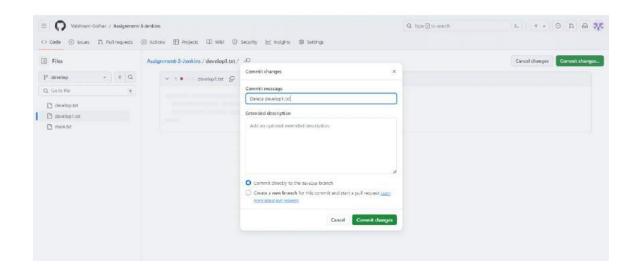


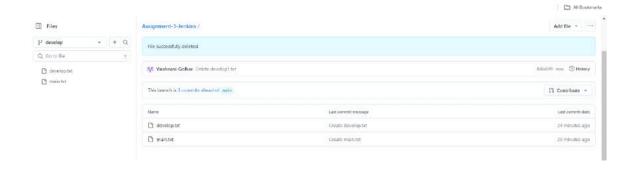


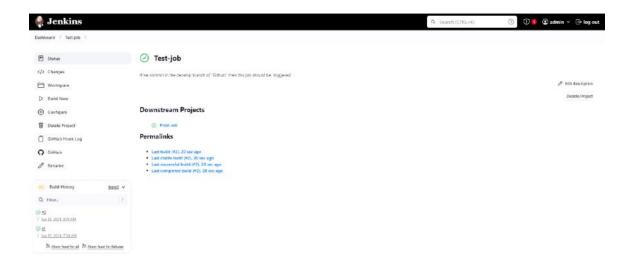


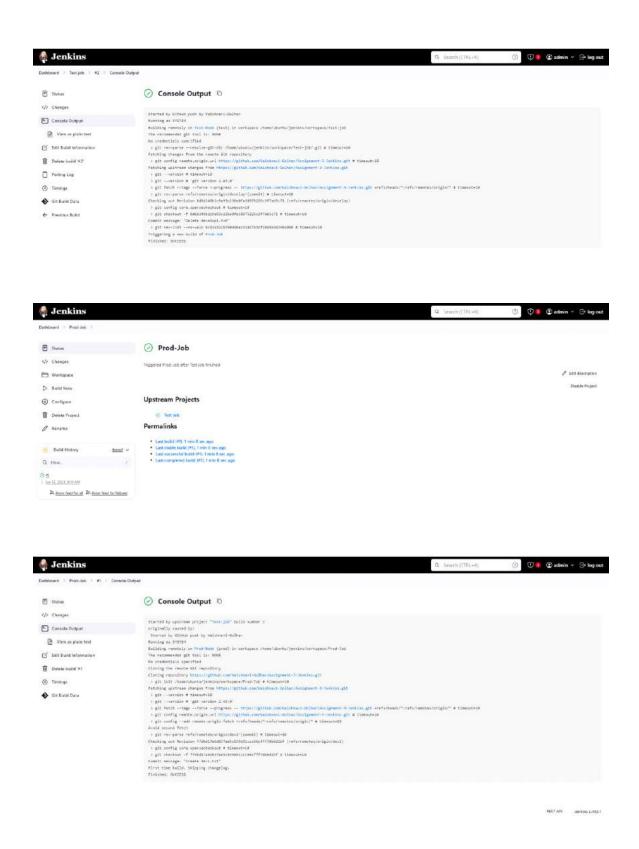
## C. Now, Delete the "develop1.txt" file from GitHub to Trigger the Prod-Job via "Test-Job".











Problem (1) Solution: Create a Pipeline in Jenkins



