

Jenkins - Task

Assignment-1

1. Trigger a pipeline using Git when push on develop branch

```
-v, --[no-]verbose    be verbose; must be placed before a subcommand

ubuntu@ip-172-31-9-115:~/master$ git remote -v
ubuntu@ip-172-31-9-115:~/master$ git remote add origin https://github.com/KarthickSuresh09/jenkinsassignment.git
ubuntu@ip-172-31-9-115:~/master$ git remote -v
origin  https://github.com/KarthickSuresh09/jenkinsassignment.git (fetch)
origin  https://github.com/KarthickSuresh09/jenkinsassignment.git (push)
ubuntu@ip-172-31-9-115:~/master$ git push --all
Username for 'https://github.com': KarthickSuresh09
Password for 'https://github.com': 
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 424 bytes | 424.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/KarthickSuresh09/jenkinsassignment.git
 * [new branch]      develop -> develop
 * [new branch]      master -> master
ubuntu@ip-172-31-9-115:~/master$ ls
```

2. Pipeline should pull Git content to a folder

```
ubuntu@ip-172-31-1-207:~$ cd jenkins/
ubuntu@ip-172-31-1-207:~/jenkins$ pwd
/home/ubuntu/jenkins
ubuntu@ip-172-31-1-207:~/jenkins$ ls
remoting  remoting.jar
ubuntu@ip-172-31-1-207:~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@ip-172-31-1-207:~/jenkins$ cd workspace/
ubuntu@ip-172-31-1-207:~/jenkins/workspace$ ls
job1  job1@tmp
ubuntu@ip-172-31-1-207:~/jenkins/workspace$ cd job1
ubuntu@ip-172-31-1-207:~/jenkins/workspace/job1$ ls
develop-file  masterfile
ubuntu@ip-172-31-1-207:~/jenkins/workspace/job1$
```










i-0158beb53f94591e7 (slave-1)

PublicIPs: 40.192.14.116 PrivateIPs: 172.31.1.207

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Assignment-2

1. Add 2 nodes to Jenkins master

| Nodes | | | | | | | |
|---|---------------|---------------|------------------|-----------------|--|-----------------|--|
| | | | | | | | |
| S | Name ↓ | Architecture | Clock Difference | Free Disk Space | Free Swap Space | Free Temp Space | Response Time |
|  | Built-In Node | Linux (amd64) | In sync | 24.59 GiB |  0 B | 24.59 GiB | 0ms  |
|  | prod | Linux (amd64) | In sync | 25.30 GiB |  0 B | 25.30 GiB | 87ms  |
|  | Test | Linux (amd64) | In sync | 24.98 GiB |  0 B | 24.98 GiB | 32ms  |
| last checked | | 10 sec | 10 sec | 10 sec | 10 sec | 10 sec | 10 sec |

2. Create 2 jobs with the following jobs:

a. Push to test b. Push to prod

| S | W | Name ↓ | Last Success | Last Failure | Last Duration | |
|---|---|--------------|-----------------|--------------|---------------|---|
|  |  | job1 | 3 hr 15 min #3 | N/A | 8.5 sec |  |
|  |  | push to prod | 1 min 51 sec #4 | 23 min #2 | 1 sec |  |
|  |  | push to test | 1 min 51 sec #2 | N/A | 4 sec |  |

3. Once a push is made to test branch, copy Git files to test server

```
*** System restart required ***
ast login: Wed Mar 19 07:24:59 2025 from 18.60.252.24
buntu@ip-172-31-1-207:~$ ls
enkins tmp
buntu@ip-172-31-1-207:~$ cd jenkins/
buntu@ip-172-31-1-207:~/jenkins$ ls
emoting remoting.jar workspace
buntu@ip-172-31-1-207:~/jenkins$ cd workspace/
buntu@ip-172-31-1-207:~/jenkins/workspace$ ls
job1 job1@tmp 'push to test' 'push to test@tmp'
buntu@ip-172-31-1-207:~/jenkins/workspace$
```

4. Once a push is made to master branch, copy Git files to prod server

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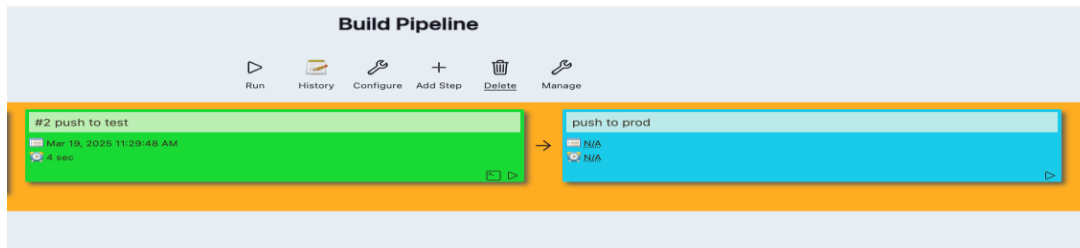
```
ubuntu@ip-172-31-18-13:~/jenkins$ pwd
/home/ubuntu/jenkins
ubuntu@ip-172-31-18-13:~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@ip-172-31-18-13:~/jenkins$ cd workspace/
ubuntu@ip-172-31-18-13:~/jenkins/workspace$ ls
'push to prod'  'push to prod@tmp'  'push to test'  'push to test@tmp'
ubuntu@ip-172-31-18-13:~/jenkins/workspace$
```

i-03e7af5548ffb6c33 (prod)

PublicIPs: 18.60.62.70 PrivateIPs: 172.31.18.13

Assignment-3

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

```
ubuntu@ip-172-31-9-115:~/master$ echo "hi all" >> develop-file
ubuntu@ip-172-31-9-115:~/master$ git add develop-file
ubuntu@ip-172-31-9-115:~/master$ git commit -m "committing develop-file"
[develop 962c59b] committing develop-file
Committer: Ubuntu <ubuntu@ip-172-31-9-115.ap-south-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

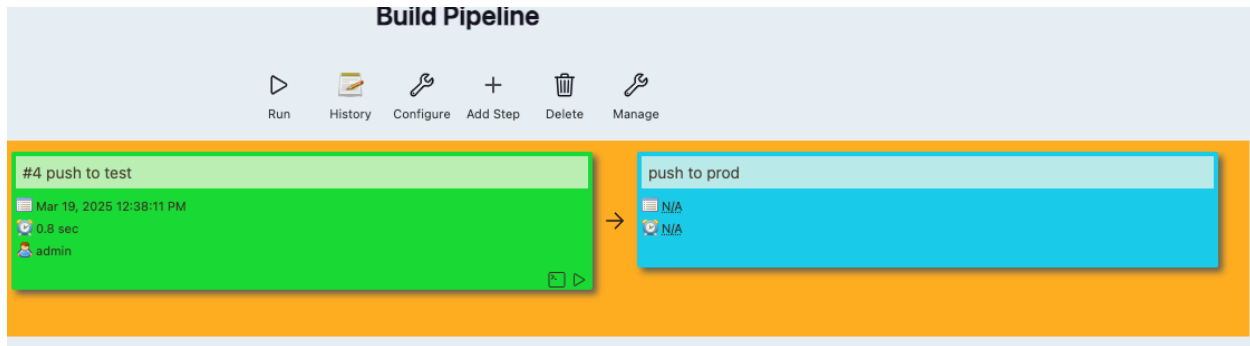
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
ubuntu@ip-172-31-9-115:~/master$ git status
On branch develop
nothing to commit, working tree clean
ubuntu@ip-172-31-9-115:~/master$ git push --all
Username for 'https://github.com': KarthickSuresh09
Password for 'https://KarthickSuresh09@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 308 bytes | 308.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/KarthickSuresh09/jenkinsassignment.git
810dead..962c59b develop -> develop
ubuntu@ip-172-31-9-115:~/master$ git branch
* develop
  master
  test
ubuntu@ip-172-31-9-115:~/master$
```

3. If test job is successful, then prod job should be triggered

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4. Prod jobs should copy files to prod node

```
drwxrwxr-x 2 ubuntu ubuntu 4096 Mar 19 12:38 'push to prod@tmp'
ubuntu@ip-172-31-18-13:~/jenkins/workspace$ cd push\ to\ test
ubuntu@ip-172-31-18-13:~/jenkins/workspace/push to test$ ls
develop-file  masterfile  test.txt
ubuntu@ip-172-31-18-13:~/jenkins/workspace/push to test$
```

i-03e7af5548ffb6c33 (prod)

PublicIPs: 18.60.62.70 PrivateIPs: 172.31.18.13