## Module 6: Jenkins Assignment - 1

- 1. Trigger a pipeline using Git when push on develop branch
- 2. Pipeline should pull Git content to a folder

## **Prerequisites:**

## A Vm with jenkins installed

- Navigated to the jenkins installed VM and created directory
- In the created directory, git repo is initialised

```
ubuntu@ip-172-31-38-170:~$ mkdir git
ubuntu@ip-172-31-38-170:~$ cd git
ubuntu@ip-172-31-38-170:~/git$ ls
ubuntu@ip-172-31-38-170:~/git$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint: git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint: git branch -m <name>
Initialized empty Git repository in /home/ubuntu/git/.git/
```

Then a file is created and committed to the repo

```
ubuntu@ip-172-31-38-170: //git$ touch 1.txt
ubuntu@ip-172-31-38-170: //git$ git add .
ubuntu@ip-172-31-38-170: //git$ git commit -m "1st commit"
[master (root-commit) 7c2b2b6] 1st commit
Committer: Ubuntu <ubuntu@ip-172-31-38-170.ec2.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, 0 insertions(+), 0 deletions(-)
create mode 100644 1.txt
```

After that the git-hub repo is added as origin

ubuntu@ip-172-31-38-170:~/git\$ git remote add origin https://github.com/Venkat-Narayan-07/03Jan2024.git

The changes committed are pushed to the git hub repo

```
wbuntu@ip-172-31-38-170:~/git$ git branch

* master

ubuntu@ip-172-31-38-170:~/git$ git push -u origin master

Username for 'https://github.com': Venkat-Narayan-07

Password for 'https://Venkat-Narayan-07@github.com':

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 214 bytes | 214.00 KiB/s, done.

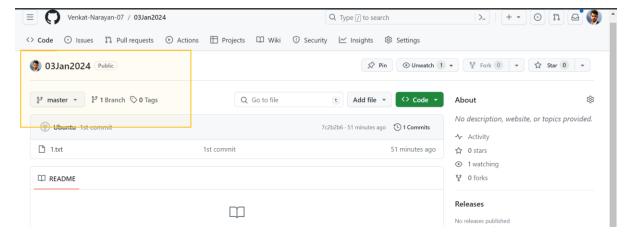
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/Venkat-Narayan-07/03Jan2024.git

* [new branch] master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

ubuntu@ip-172-31-38-170:~/git$
```



Then a new branch develop is created

ubuntu@ip-172-31-38-170:~/git\$ git branch develop

• A file is created and added committed to the remote repo

```
ubuntu@ip-172-31-38-170:~/git$ touch assign1.txt
ubuntu@ip-172-31-38-170:~/git$ git add assign1.txt
ubuntu@ip-172-31-38-170:~/git$ git commit -m "ji"
[develop 2bd5bc4] ji
Committer: Ubuntu <ubuntu@ip-172-31-38-170.ec2.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

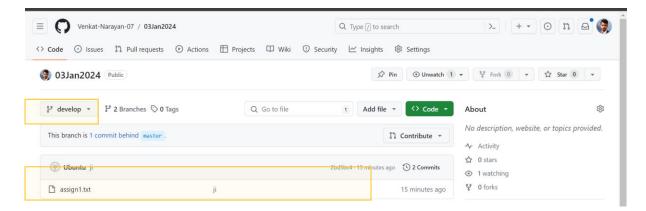
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

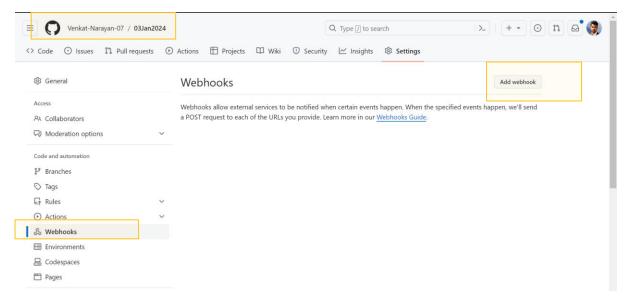
1 file changed, 0 insertions(+), 0 deletions(-)
rename 1.txt => assign1.txt (100%)
```

## The committed changes are pushed to the remote repo

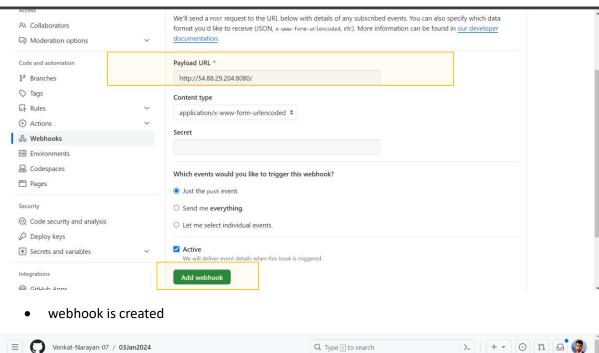
```
ubuntu@ip-172-31-38-170:~/git$ git push origin develop
Username for 'https://github.com': Venkat-Narayan-07
Password for 'https://Venkat-Narayan-07@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (2/2), 238 bytes | 238.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote: https://github.com/Venkat-Narayan-07/03Jan2024/pull/new/develop
remote:
To https://github.com/Venkat-Narayan-07/03Jan2024.git
* [new branch] develop -> develop
ubuntu@ip-172-31-38-170:~/git$ [
```

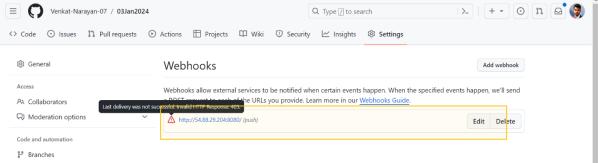


- Then navigated to the gitgub wesite
- In the repository selected webhooks and created a new webhook

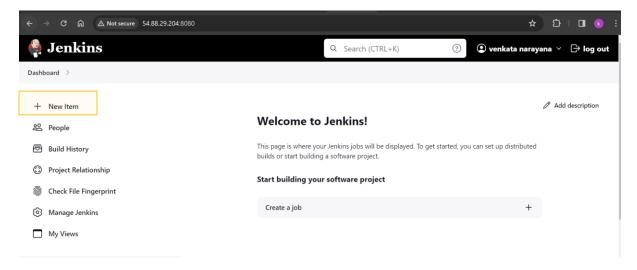


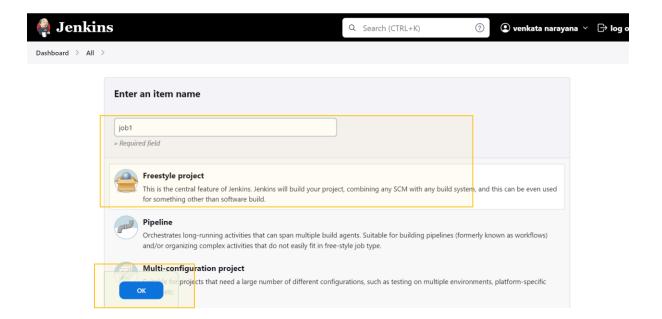
In the webhook configuration provided jenkins dashboard url as the payload url



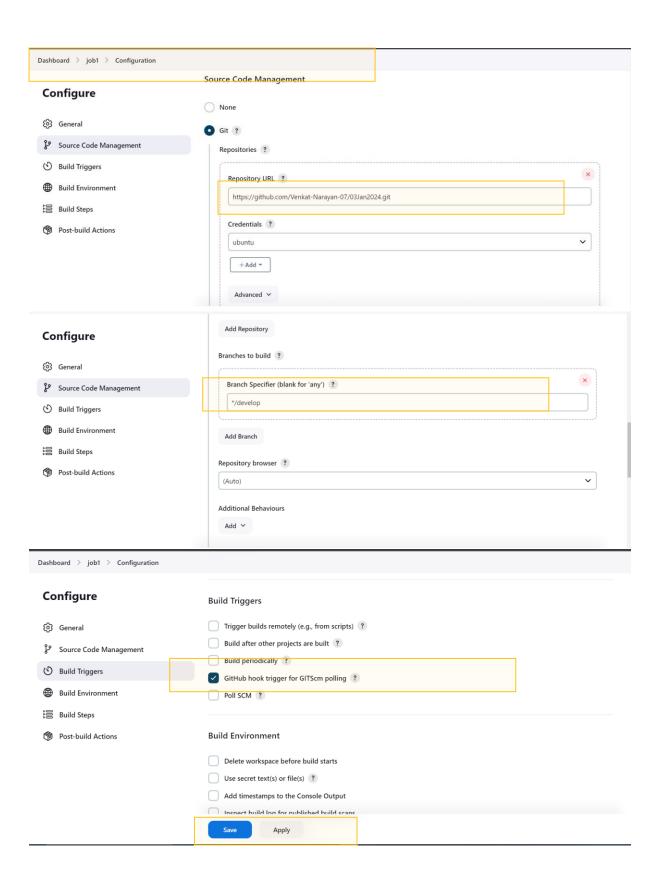


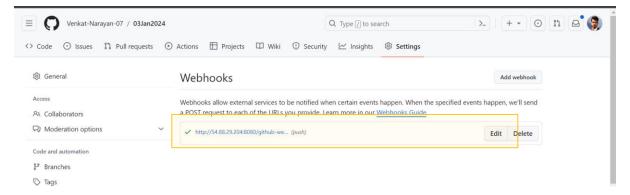
Navigated to jenkins dashboard and added a new job





- Job1 is configured with git repo url and develop branch as the build trigger branch
- And webhook is enabled to connect github and jenkins





- Navigated to the jenkins master vm
- Switched to the develop branch

• Then a file is created staged and committed to the repo

```
ubuntu@ip-172-31-38-170:~/git$ git add .
ubuntu@ip-172-31-38-170:~/git$ git commit -m "committing"
[develop aadda09] committing
Committer: Ubuntu <ubuntu@ip-172-31-38-170.ec2.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:

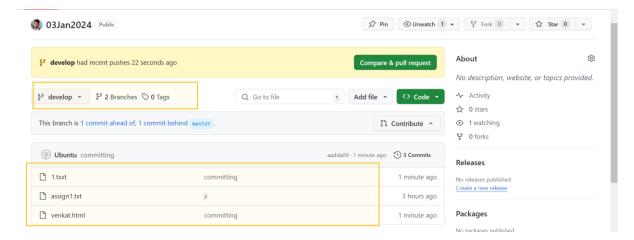
git config --global --edit

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

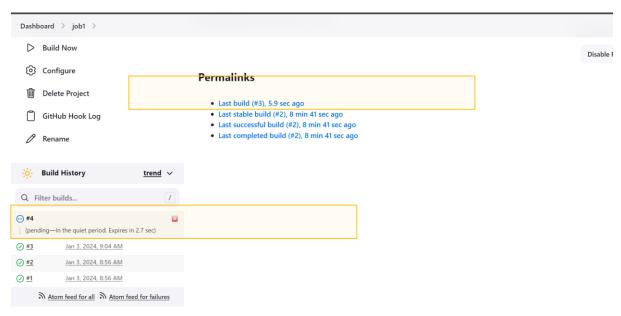
git commit --amend --reset-author

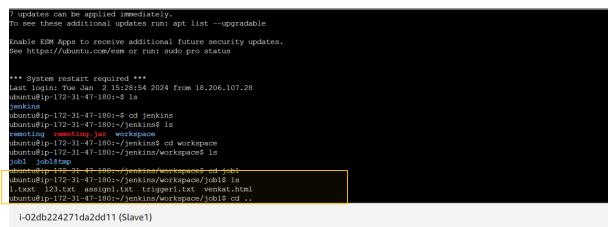
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 1.txxt
create mode 100644 venkat.html
```

Changes are pushed to the github repo



In the jenkins dashboard job1 is auto triggerd with the push





PublicIPs: 54.172.39.70 PrivateIPs: 172.31.47.180