

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.

Solution:-

```
$ sudo apt install openjdk-11-jdk -y
```

```
ubuntu@Jenkins-Master:~$ sudo apt install openjdk-11-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 alsa-topology-conf alsa-ucm-conf at-spi2-core ca-certificates-java dconf-gsettings-backend dconf-s
gsettings-desktop-schemas java-common libasound2 libasound2-data libatk-bridge2.0-0 libatk-wrapper
libavahi-client3 libavahi-common-data libavahi-common3 libcups2 libdconf1 libdrm-amdgpu1 libdrm-in
```

```
$ java -version
$ vi install_jenkins.sh
```

```
ubuntu@Jenkins-Master:~$ java -version
openjdk version "11.0.20" 2023-07-18
OpenJDK Runtime Environment (build 11.0.20+8-post-Ubuntu-1ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.20+8-post-Ubuntu-1ubuntu122.04, mixed mode, sharing)
ubuntu@Jenkins-Master:~$ vi install_jenkins.sh
```

```
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-
2023.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null
echo deb [signed-by=/usr/share/keyrings/jenkins-
keyring.asc] \
  https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
  /etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update -y
sudo apt-get install jenkins -y
```

```
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null
echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
  https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
  /etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update -y
sudo apt-get install jenkins -y
```

```
$ bash install_jenkins.sh
```

```
ubuntu@Jenkins-Master:~$ bash install_jenkins.sh
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Ign:5 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:6 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:7 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:8 https://pkg.jenkins.io/debian-stable binary/ Packages [25.4 kB]
Fetched 28.3 kB in 1s (32.9 kB/s)
Reading package lists... Done
```

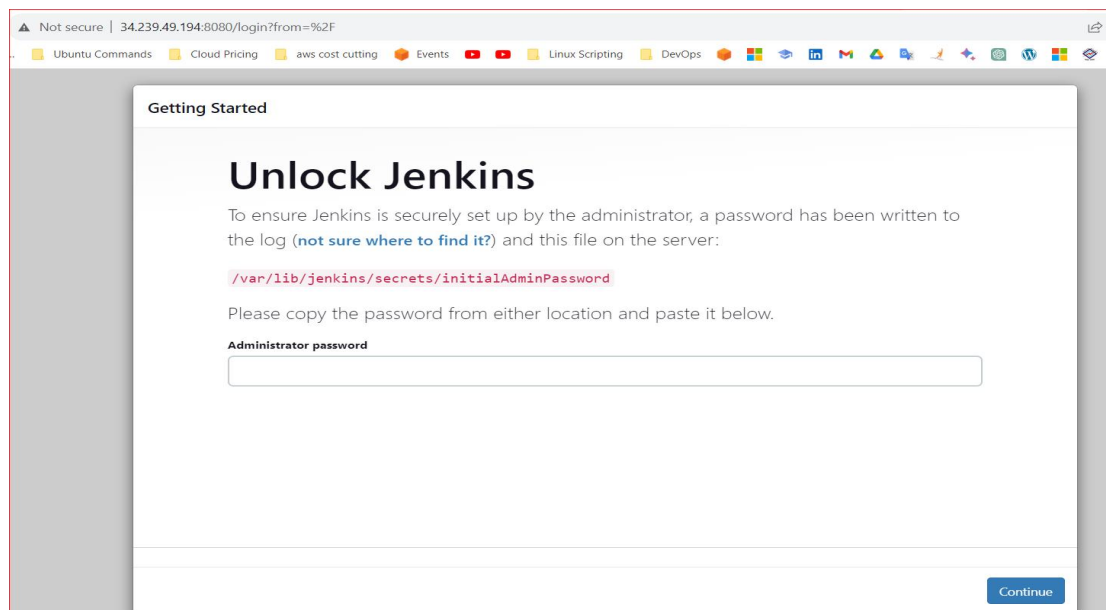
```
$ jenkins -version
```

```
ubuntu@Jenkins-Master:~$ jenkins -version
Running from: /usr/share/java/jenkins.war
webroot: /home/ubuntu/.jenkins/war
2023-08-25 04:41:34.904+0000 [id=1] INFO winstone.Logger#logInternal: Beginning
2023-08-25 04:41:37.026+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setCont
2023-08-25 04:41:37.209+0000 [id=1] INFO org.eclipse.jetty.server.Server#doSta
59610f661d; jvm 11.0.20+8-post-Ubuntu-1ubuntu122.04
2023-08-25 04:41:37.311+0000 [id=1] INFO org.eclipse.jetty.server.Server#doSto
2023-08-25 04:41:37.312+0000 [id=1] INFO winstone.Logger#logInternal: Jetty sh
java.io.IOException: Failed to start Jetty
```

```
$ which jenkins
```

```
ubuntu@Jenkins-Master:~$ which jenkins
/usr/bin/jenkins
```

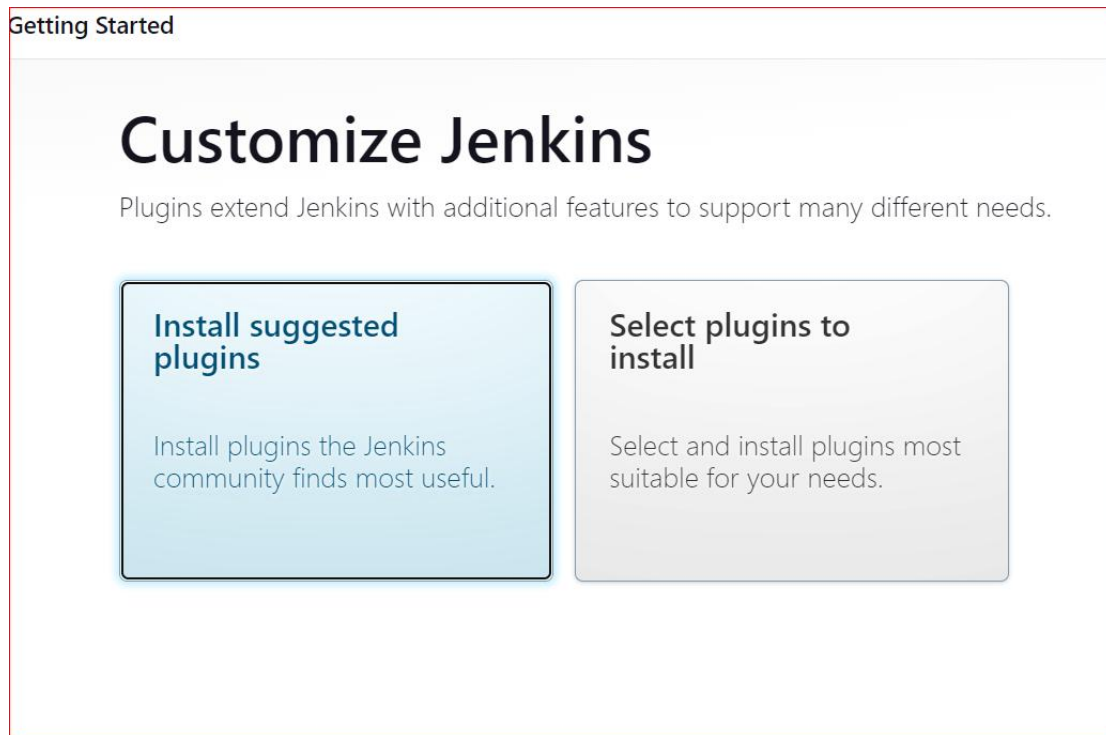
* Browse jenkins using url :- <http://34.239.49.194:8080>



```
$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

```
ubuntu@Jenkins-Master:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword  
f78e6bf0401c4e5aa12dfe93c48e4f7f
```

* Click on install suggested plugins.



* Create and insert user details:-

Getting Started

Create First Admin User

Username

admin

Password

.....

Confirm password

.....

Full name

admin

E-mail address

Jenkins 2.414.1

Skip and continue as admin

Save and Continue

* Replace public ip to private ip:-

Getting Started

Instance Configuration

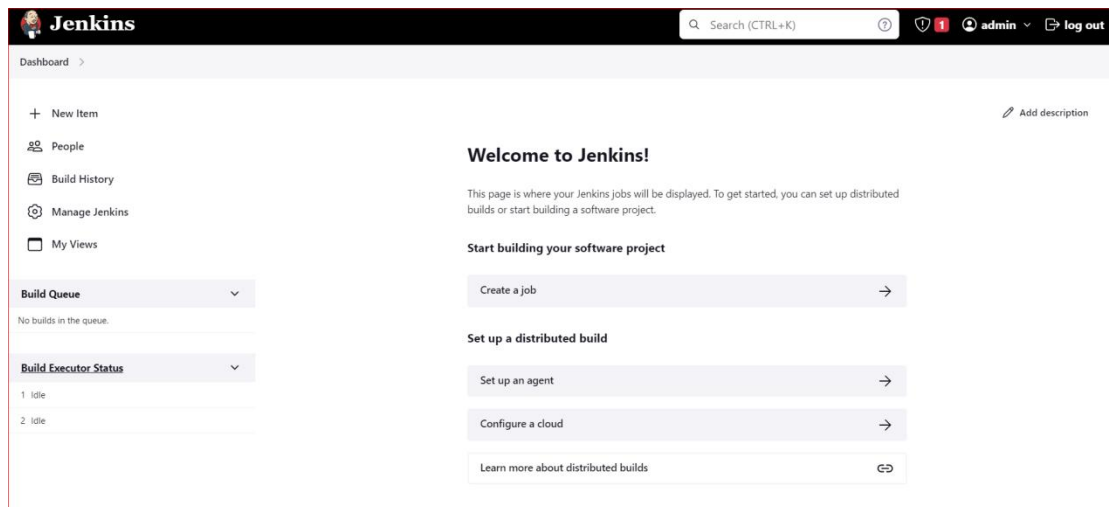
Jenkins URL:

http://172.31.43.104:8080/

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

* Jenkins page now we can start using jenkins :-



* In node-1:-

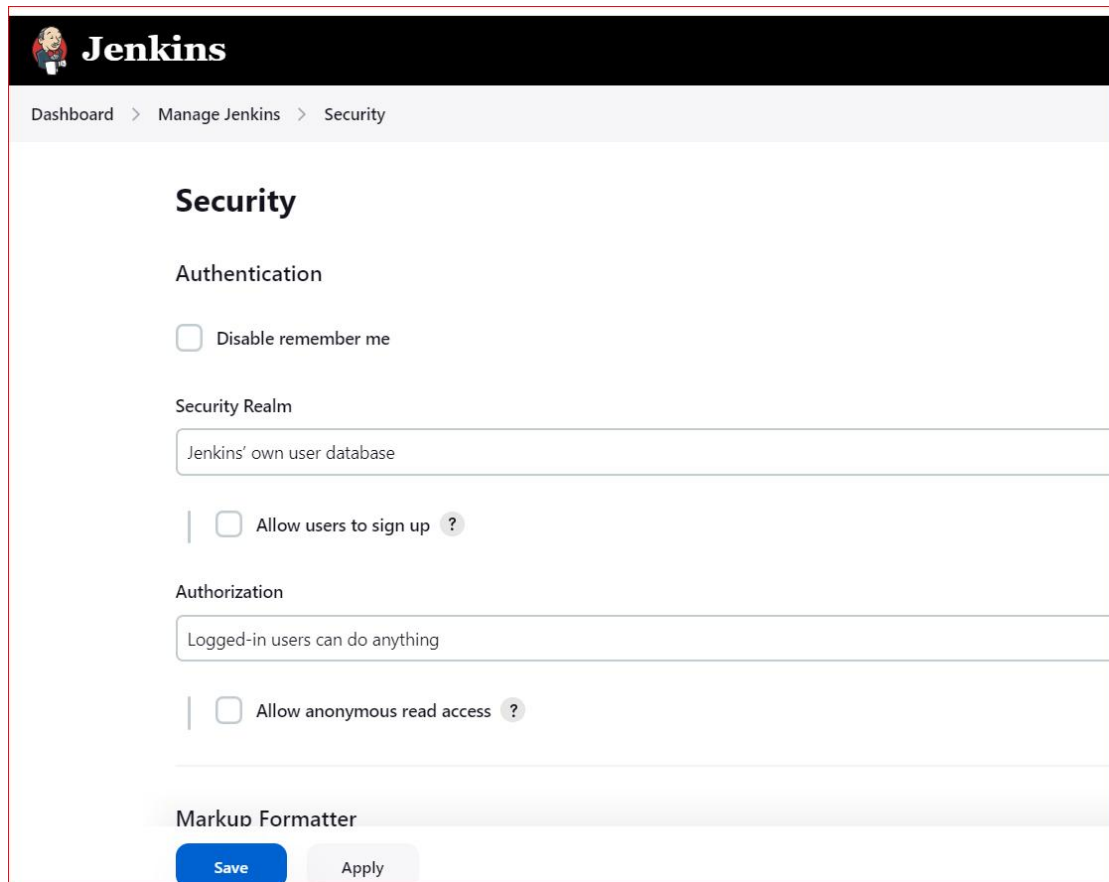
```
$ sudo apt install openjdk-11-jdk -y
```

```
ubuntu@Jenkins-Node1:~$ sudo apt install openjdk-11-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  alsa-topology-conf alsa-ucm-conf at-spi2-core ca-certificates-java dconf-gsettings
  gsettings-desktop-schemas java-common libasound2 libasound2-data libatk-bridge2.0-
  libavahi-client3 libavahi-common-data libavahi-common3 libcups2 libdconf1 libdrm-a
  libgl1 libgl1-amd-dri libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libgl
  libllvmlib1 libpciaccess0 libpcsc-lite1 libpthread-stubs0-dev libsensors-config libse
```

```
$ java -version
```

```
no VM guests are running detected hypervisor (qemu) binaries on this host.
ubuntu@Jenkins-Node1:~$ java -version
openjdk version "11.0.20" 2023-07-18
OpenJDK Runtime Environment (build 11.0.20+8-post-Ubuntu-1ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.20+8-post-Ubuntu-1ubuntu122.04, mixed mode, sharing)
```

* Go to:- dashboard -> manage jenkins -> configure global security



The screenshot shows the Jenkins 'Security' configuration page. At the top, the Jenkins logo and name are displayed. Below the breadcrumb 'Dashboard > Manage Jenkins > Security', the 'Security' title is prominent. Under the 'Authentication' section, there is a checkbox for 'Disable remember me'. The 'Security Realm' is set to 'Jenkins' own user database'. Below this, there is a checkbox for 'Allow users to sign up' with a help icon. The 'Authorization' section shows 'Logged-in users can do anything' and a checkbox for 'Allow anonymous read access' with a help icon. At the bottom, the 'Markup Formatter' section is visible. Two buttons, 'Save' and 'Apply', are at the bottom right.

Jenkins

Dashboard > Manage Jenkins > Security

Security

Authentication

☐ Disable remember me

Security Realm

Jenkins' own user database

☐ Allow users to sign up ?

Authorization

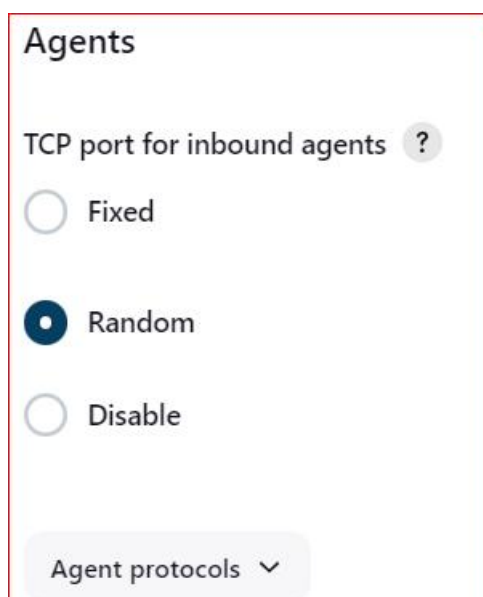
Logged-in users can do anything

☐ Allow anonymous read access ?

Markup Formatter

Save Apply

* Select:- tcp port for inbound agents -> random -> save



The screenshot shows the 'Agents' configuration section in Jenkins. It features a title 'Agents' and a label 'TCP port for inbound agents' with a help icon. There are three radio button options: 'Fixed', 'Random' (which is selected), and 'Disable'. At the bottom, there is a dropdown menu labeled 'Agent protocols'.

Agents

TCP port for inbound agents ?

☐ Fixed

☒ Random

☐ Disable

Agent protocols ▼

* Go to:- **manage nodes and clouds -> new node**

Dashboard > Manage Jenkins > Nodes >

Nodes

Nodes

Clouds

Node Monitoring

Build Queue ▾

No builds in the queue.

Build Executor Status ▾

S	Name ↓	Architecture
	Built-In Node	Linux (a)

Data obtained 5

* Select:- **new node -> name -> permanent agent**

Jenkins

Dashboard > Manage Jenkins > Nodes > New node

New node

Node name

Node1

Type

☒ Permanent Agent

Adds a plain, permanent agent to Jenkins. This is called "permanent agent" integration with these agents, such as dynamic provisioning, for example such as when you are adding a physical computer to the Jenkins infrastructure.

Create

Dashboard > Manage Jenkins > Nodes >

Name ?

Node1

* Go to:- create -> remote root directory -> /home/ubuntu/jenkins

Remote root directory ?

/home/ubuntu/jenkins

* Select:- launch method -> launch agents by a ssh -> host -> paste private ip of node not server

Launch method ?

Launch agents via SSH

Host ?

172.31.40.203

Credentials ?

- none -

Add ▾

* Select:- credential -> add -> domain-> global credential (unrestricted) -> kind -> ssh username with private key ->

scope -> global (jenkins, nodes, items, all child items, etc.)

Jenkins Credentials Provider: Jenkins

Add Credentials

Domain

Global credentials (unrestricted)

Kind

SSH Username with private key

Scope ?

Global (Jenkins, nodes, items, all child items, etc)

ID ?

* Insert:- username -> Jenkins-Node -> private key -> enter directly -> copy and paste key of node

Username

ubuntu

☐ Treat username as secret ?

Private Key

☒ Enter directly

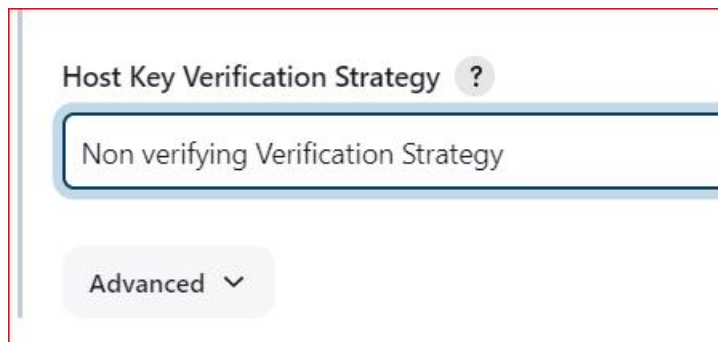
Key

AAABABS2D9zHt3Gtf0zymnvb/4bbx4icZUzc3i1l/y+sJKqnFh13v15Lpk1WZDRg
KGnuKH9HUy5K20GydYG3dovgNUT9qtFJs7Sgi0m42DMb5YxGqjcq4mxTRLSaOy2M
MwIrIrTZ0RfJFI3VmmwFDKAaZA1zbUvvRdafINRz01Sa30uTURUYL31Y9mdZxHsV

Passphrase

Add Cancel

* Select:- host key verification strategy -> non verifying
verification strategy -> Save



Host Key Verification Strategy ?

Non verifying Verification Strategy

Advanced ▾

* refresh status



S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	4.42 GB	0 B	4.42 GB	0ms
	Node1	Linux (amd64)	In sync	5.00 GB	0 B	5.00 GB	89ms
Data obtained			0.24 sec	0.25 sec	0.21 sec	0.17 sec	0.21 sec

```
$ ls
$ cd jenkins
$ ls
```

```
ubuntu@Jenkins-Node1:~$ ls
jenkins
ubuntu@Jenkins-Node1:~$ cd jenkins/
ubuntu@Jenkins-Node1:~/jenkins$ ls
remoting  remoting.jar
```

```
$ mkdir Git
$ cd Git
$ git init
$ ls -al
```

```

ubuntu@Jenkins-Master:~$ mkdir Git
ubuntu@Jenkins-Master:~$ cd Git
ubuntu@Jenkins-Master:~/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:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ubuntu/Git/.git/
ubuntu@Jenkins-Master:~/Git$ ls -al
total 12
drwxrwxr-x 3 ubuntu ubuntu 4096 Aug 25 06:39 .
drwxr-x--- 7 ubuntu ubuntu 4096 Aug 25 06:39 ..
drwxrwxr-x 7 ubuntu ubuntu 4096 Aug 25 06:39 .git

```

```

$ ls -al
$ sudo vi master_file
$ cat master_file

```

```

ubuntu@Jenkins-Master:~/Git$ ls -al
total 12
drwxrwxr-x 3 ubuntu ubuntu 4096 Aug 25 06:39 .
drwxr-x--- 7 ubuntu ubuntu 4096 Aug 25 06:39 ..
drwxrwxr-x 7 ubuntu ubuntu 4096 Aug 25 06:39 .git
ubuntu@Jenkins-Master:~/Git$ vi master_file
ubuntu@Jenkins-Master:~/Git$ sudo vi master_file
ubuntu@Jenkins-Master:~/Git$ cat master_file
Hello I am Master.
ubuntu@Jenkins-Master:~/Git$ █

```

```

$ git add master_file

```

```

ubuntu@Jenkins-Master:~/Git$ git add master_file

```

```

$ git config --global user.email
"redhat.amitiwari@gmail.com"
$ git config --global user.name "Amit Tiwari"
$ git commit -m "master file"

```

```

ubuntu@Jenkins-Master:~/Git$ git config --global user.email "redhat.amitiwari@gmail.com"
ubuntu@Jenkins-Master:~/Git$ git config --global user.name "Amit Tiwari"
ubuntu@Jenkins-Master:~/Git$ git commit -m "master file"
[master (root-commit) 2dalb83] master file
1 file changed, 1 insertion(+)
create mode 100644 master_file

```

```
$ git branch develop
```

```
ubuntu@Jenkins-Master:~/Git$ git branch develop
```

```
$ git checkout develop
```

```
ubuntu@Jenkins-Master:~/Git$ git checkout develop  
Switched to branch 'develop'
```

```
$ sudo vi develop_file
```

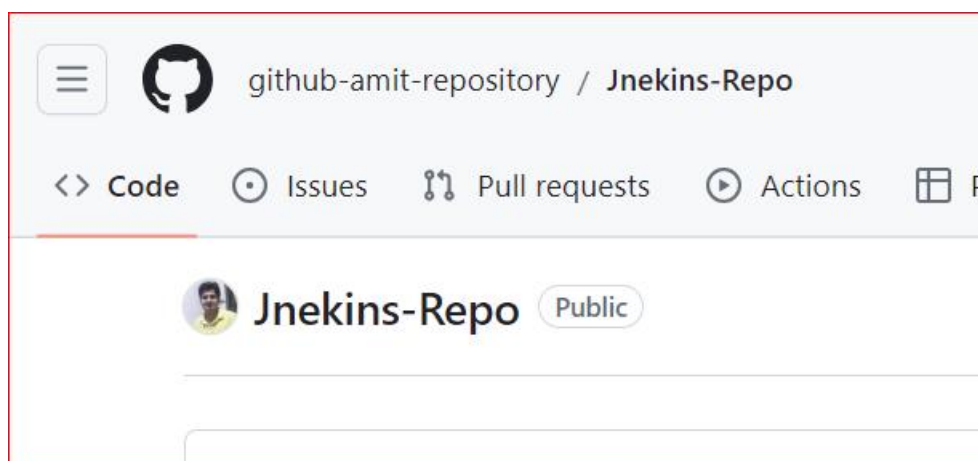
```
$ cat develop_file
```

```
$ git add develop_file
```

```
$ git commit -m "commit develop file"
```

```
ubuntu@Jenkins-Master:~/Git$ sudo vi develop_file  
ubuntu@Jenkins-Master:~/Git$ cat develop_file  
Hello This Developer File.  
ubuntu@Jenkins-Master:~/Git$ git add develop_file  
ubuntu@Jenkins-Master:~/Git$ git commit -m "commit develop file"  
[develop 896776d] commit develop file  
1 file changed, 1 insertion(+)  
create mode 100644 develop_file  
ubuntu@Jenkins-Master:~/Git$
```

* We can see remote repo is created in github:-

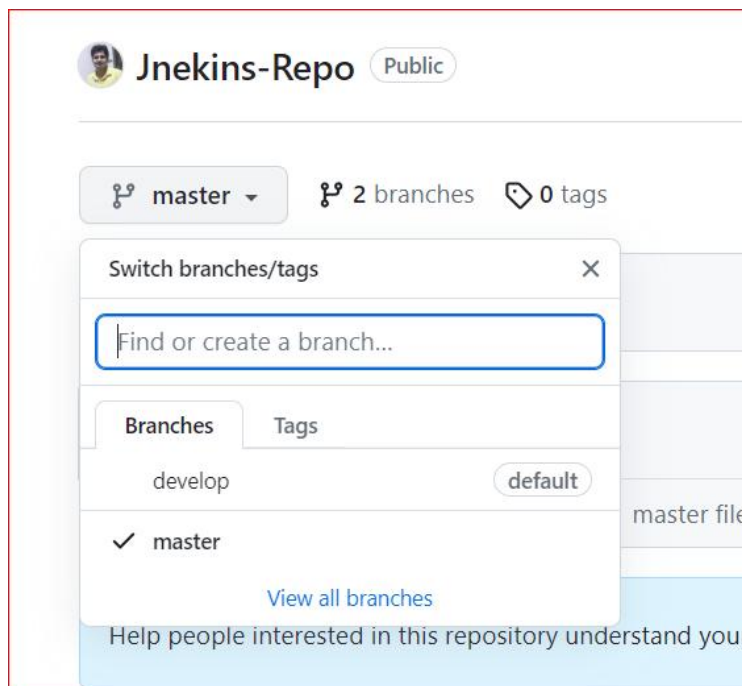



```
$ git push -u origin --all
```




* Enter github username and password.

```
ubuntu@Jenkins-Master:~/Git$ git push -u origin --all
Username for 'https://github.com': github-amit-repository
Password for 'https://github-amit-repository@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 520 bytes | 520.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/github-amit-repository/Jnekins-Repo.git
 * [new branch]      develop -> develop
 * [new branch]      master -> master
Branch 'develop' set up to track remote branch 'develop' from 'origin'.
Branch 'master' set up to track remote branch 'master' from 'origin'.
```


* Github repo of Jenkins-Repo name:-




 **Jnekins-Repo** Public

 **master**  2 branches  0 tags


This branch is 1 [commit behind](#) develop.




 **github-amit-repository** master file


 master_file master file


Help people interested in this repository understand your


* Now we can see files in the repo:-


 **Jnekins-Repo** Public

 **develop**  2 branches  0 tags

 **Your develop branch isn't protected**
Protect this branch from force pushing or deletion, or require status checks

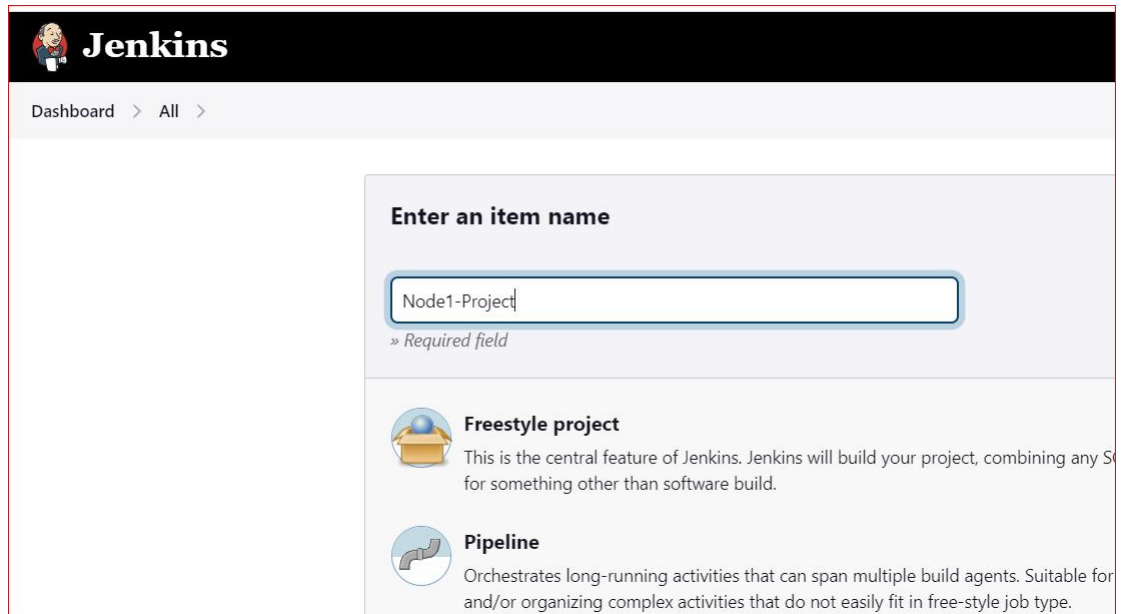
 **github-amit-repository** commit develop file

 develop_file commit develop file

 master_file master file

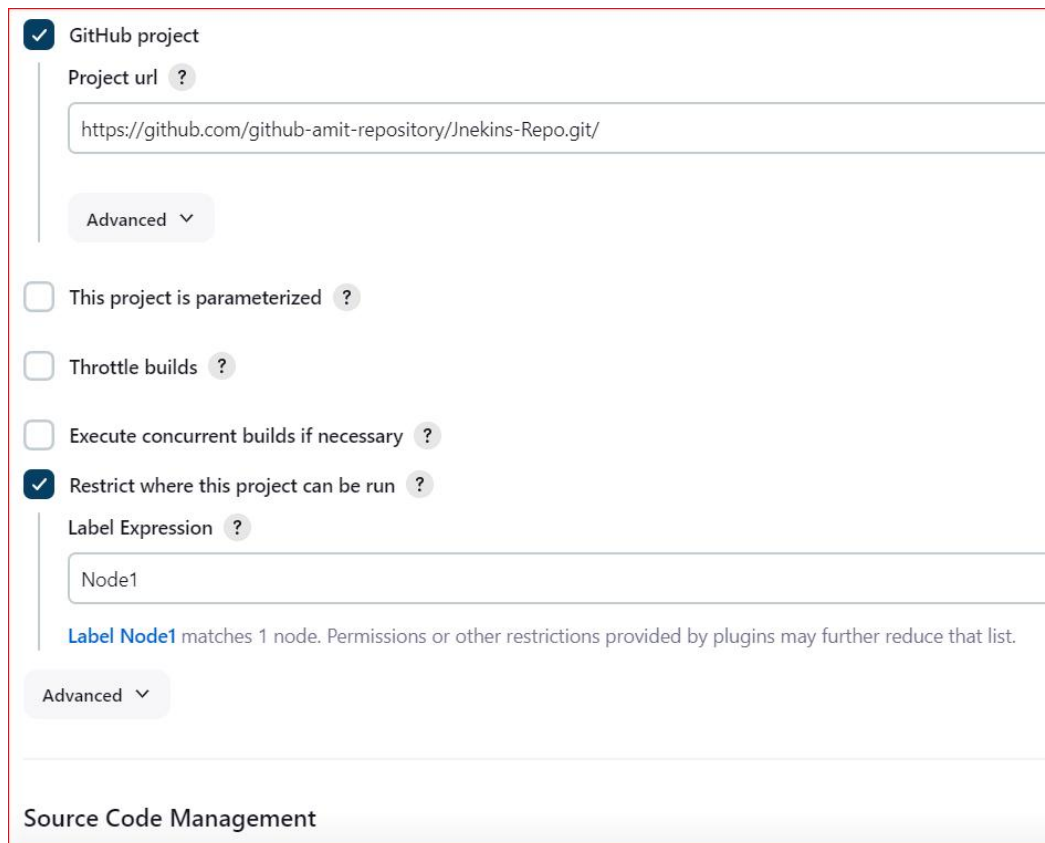
Help people interested in this repository understand your project by

* Now in jenkins:- new items -> name -> free style project -> ok



The screenshot shows the Jenkins Dashboard. At the top, there's a header with the Jenkins logo and the word "Jenkins". Below the header, there's a navigation bar with "Dashboard" and "All". The main content area is titled "Enter an item name". It features a text input field containing "Node1-Project" and a "Required field" label. Below the input field, there are two options: "Freestyle project" and "Pipeline". The "Freestyle project" option is selected and highlighted. It includes a description: "This is the central feature of Jenkins. Jenkins will build your project, combining any S for something other than software build." The "Pipeline" option is also visible with its description: "Orchestrates long-running activities that can span multiple build agents. Suitable for and/or organizing complex activities that do not easily fit in free-style job type."

* Insert url:- Github project -> project url -> paste repo url -> restrict where this project can be run -> Label expression -> Jenkins-Node



The screenshot shows the Jenkins configuration page for a "GitHub project". The "Project url" field is filled with "https://github.com/github-amit-repository/Jenkins-Repo.git/". Below the url field, there's an "Advanced" dropdown menu. The "This project is parameterized" checkbox is unchecked. The "Throttle builds" checkbox is unchecked. The "Execute concurrent builds if necessary" checkbox is unchecked. The "Restrict where this project can be run" checkbox is checked. Below this, the "Label Expression" field is filled with "Node1". A message below the field states: "Label Node1 matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list." There's another "Advanced" dropdown menu at the bottom. The "Source Code Management" section is visible at the bottom of the page.

* Now insert url:- source code managemnt -> git -> repo url -> paste repo url

Source Code Management

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/github-amit-repository/Jenkins-Repo.git

Credentials ?

- none -

Add ▾

* branch -> */develop

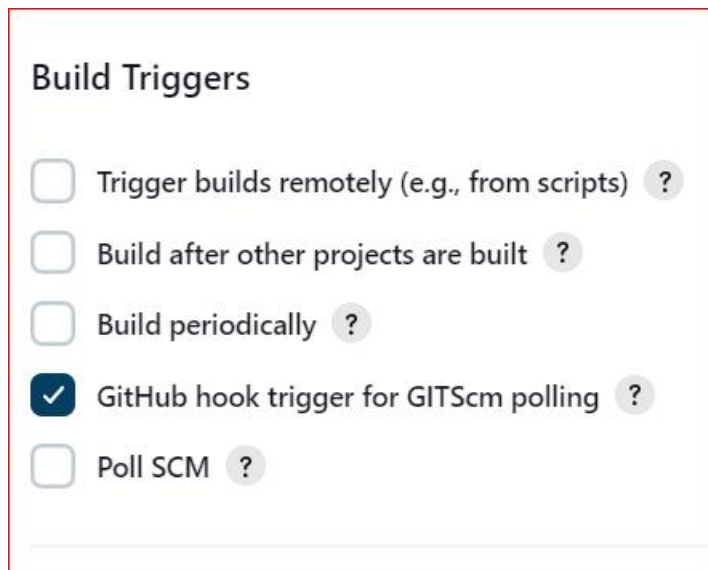
Branches to build ?

Branch Specifier (blank for 'any') ?

*/develop

Add Branch

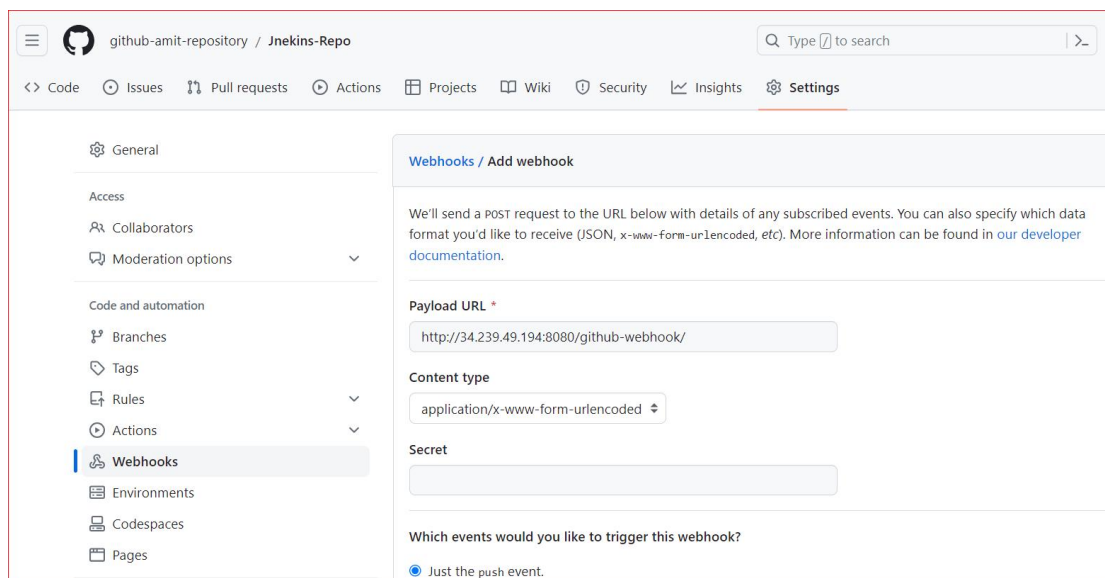
* Select:- build triggers -> github hook trigger for gitscm polling



The screenshot shows the 'Build Triggers' section of the Jenkins configuration interface. It contains five checkboxes with corresponding labels and help icons (question marks). The 'GitHub hook trigger for GITScm polling' option is selected with a checkmark.

- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☒ GitHub hook trigger for GITScm polling ?
- ☐ Poll SCM ?

* Create webhook connection:- Github -> copy 00:56:00 -> copy jenkins url and paste in -> github repo -> settings -> webhooks -> add webhook -> payload url -> http://jenkins url till port/github-webhook/ -> add webhook -> save



The screenshot shows the GitHub repository settings for 'Jnekins-Repo'. The 'Webhooks' section is active, displaying the 'Add webhook' form. The 'Payload URL' is set to 'http://34.239.49.194:8080/github-webhook/'. The 'Content type' is set to 'application/x-www-form-urlencoded'. The 'Secret' field is empty. The 'Which events would you like to trigger this webhook?' section has 'Just the push event.' selected.

github-amit-repository / Jnekins-Repo

Webhooks / Add webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in [our developer documentation](#).

Payload URL *

http://34.239.49.194:8080/github-webhook/

Content type

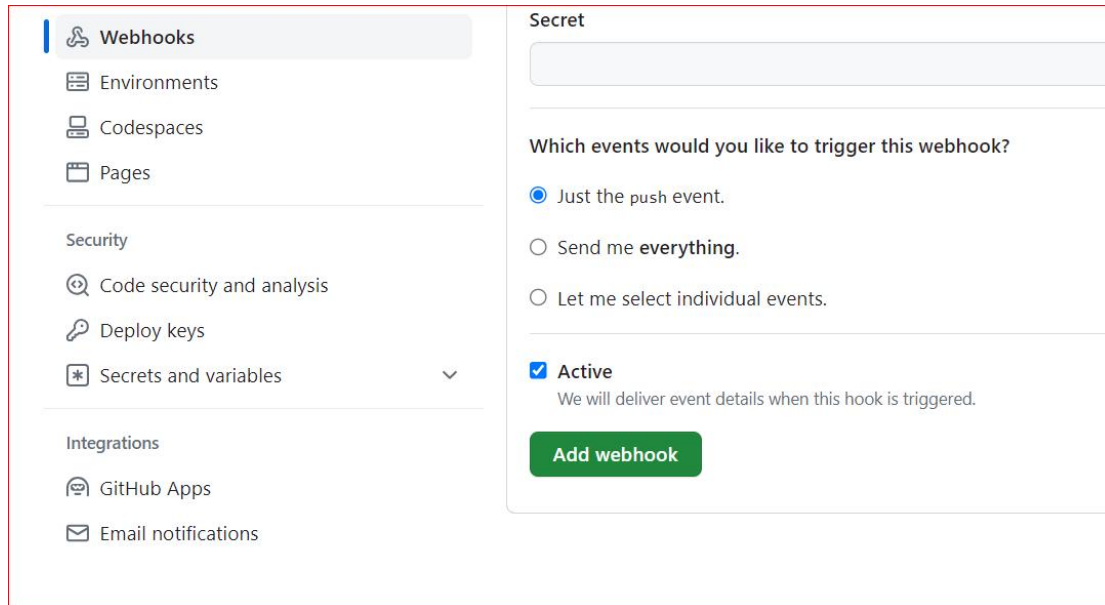
application/x-www-form-urlencoded

Secret

Which events would you like to trigger this webhook?

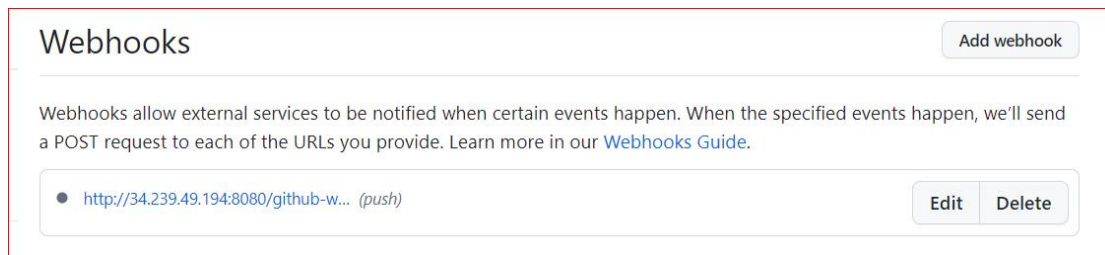
☒ Just the push event.

* Add webhook:-

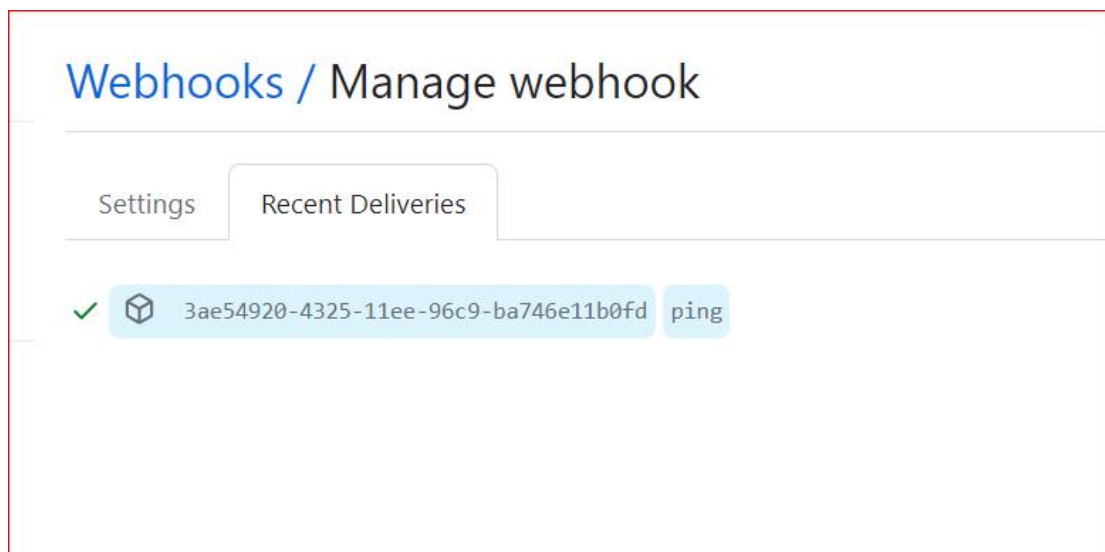


The screenshot shows the 'Add webhook' configuration page in GitHub. On the left is a sidebar with navigation links: Webhooks (selected), Environments, Codespaces, Pages, Security (with sub-links for Code security and analysis, Deploy keys, and Secrets and variables), and Integrations (with links for GitHub Apps and Email notifications). The main content area has a 'Secret' field at the top. Below it, a section titled 'Which events would you like to trigger this webhook?' contains three radio button options: 'Just the push event.' (selected), 'Send me everything.', and 'Let me select individual events.'. Below this is a section with a checked 'Active' checkbox and the text 'We will deliver event details when this hook is triggered.'. At the bottom right is a green 'Add webhook' button.

* Go to:- add webhook -> webhooks/manage webhook/ recent deliveries -> ping

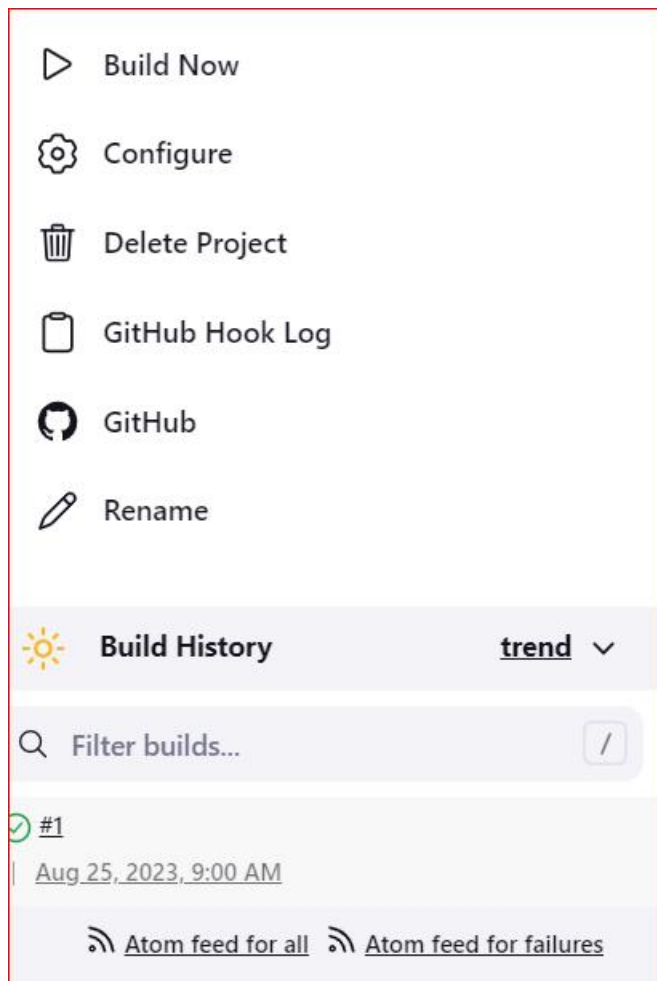


The screenshot shows the 'Webhooks' management page. At the top right is an 'Add webhook' button. Below the title, a paragraph explains that webhooks allow external services to be notified when certain events happen, and that GitHub will send a POST request to the specified URLs. Below this is a list of webhooks with one entry: a URL 'http://34.239.49.194:8080/github-w...' with a '(push)' event type. To the right of this entry are 'Edit' and 'Delete' buttons.



The screenshot shows the 'Webhooks / Manage webhook' page. It has two tabs: 'Settings' and 'Recent Deliveries' (which is selected). Below the tabs, there is a single delivery record. It starts with a green checkmark icon, followed by a cube icon, a long alphanumeric ID '3ae54920-4325-11ee-96c9-ba746e11b0fd', and a 'ping' label.

* Now run build:- [click on Build Now](#)



```
$ ls
$ cd workspace
$ ls
$ cd Node1-Project
$ ls
```

```
ubuntu@Jenkins-Node1:~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@Jenkins-Node1:~/jenkins$ cd workspace/
ubuntu@Jenkins-Node1:~/jenkins/workspace$ ls
Node1-Project
ubuntu@Jenkins-Node1:~/jenkins/workspace$ cd Node1-Project/
ubuntu@Jenkins-Node1:~/jenkins/workspace/Node1-Project$ ls
develop_file  master_file
ubuntu@Jenkins-Node1:~/jenkins/workspace/Node1-Project$
```

```
$ sudo vi push_by_webhook
$ cat push_by_webhook
$ git branch
$ git checkout develop
$ git branch
```

```
ubuntu@Jenkins-Master:~/Git$ sudo vi push_by_webhook
ubuntu@Jenkins-Master:~/Git$ cat push_by_webhook
This file is push using by webhook.
ubuntu@Jenkins-Master:~/Git$ git branch
  develop
* master
ubuntu@Jenkins-Master:~/Git$ git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
ubuntu@Jenkins-Master:~/Git$ git branch
* develop
  master
ubuntu@Jenkins-Master:~/Git$
```

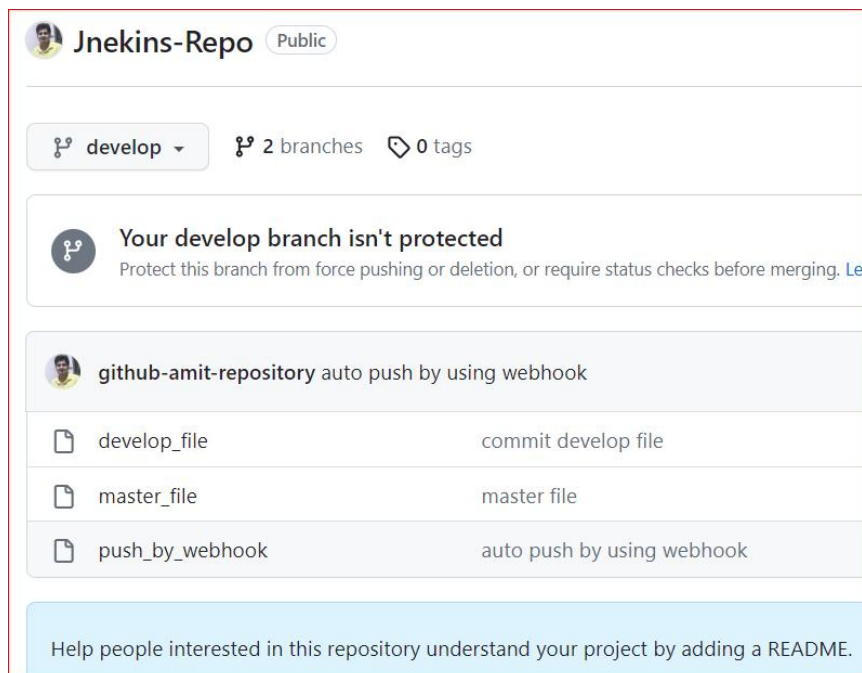
```
$ git add push_by_webhook
$ git commit -m "auto push by using webhook"
```

```
ubuntu@Jenkins-Master:~/Git$ git add push_by_webhook
ubuntu@Jenkins-Master:~/Git$ git commit -m "auto push by using webhook"
[develop a29e70b] auto push by using webhook
 1 file changed, 1 insertion(+)
   create mode 100644 push_by_webhook
ubuntu@Jenkins-Master:~/Git$
```

```
$ git add push_by_webhook
$ git commit -m "auto push by using webhook"
$ git push origin develop
* Enter github username and password.
```

```
ubuntu@Jenkins-Master:~/Git$ git add push_by_webhook
ubuntu@Jenkins-Master:~/Git$ git commit -m "auto push by using webhook"
[develop a29e70b] auto push by using webhook
1 file changed, 1 insertion(+)
create mode 100644 push_by_webhook
ubuntu@Jenkins-Master:~/Git$ git push origin develop
Username for 'https://github.com': github-amit-repository
Password for 'https://github-amit-repository@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 367 bytes | 367.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/github-amit-repository/Jnekins-Repo.git
896776d..a29e70b develop -> develop
ubuntu@Jenkins-Master:~/Git$
```

* Now we can see files are present in github:-



The screenshot shows the GitHub interface for a repository named 'Jnekins-Repo', which is public. It indicates there are 2 branches (currently on 'develop') and 0 tags. A message states 'Your develop branch isn't protected'. A recent commit by 'github-amit-repository' is shown with the message 'auto push by using webhook'. Below this, a table lists the files in the repository:

File Name	Description
develop_file	commit develop file
master_file	master file
push_by_webhook	auto push by using webhook

At the bottom, there is a suggestion to 'Help people interested in this repository understand your project by adding a README.'

```
$ ls
```

```
ubuntu@Jenkins-Node1:~/jenkins/workspace/Node1-Project$ ls
develop_file  master_file  push_by_webhook
ubuntu@Jenkins-Node1:~/jenkins/workspace/Node1-Project$
```