GITOLITE

1.To create the "gitolite server"

login as root

Gitolite manages its configuration through git! To set this up properly, we'll create a operating system user whose sole function is to interact with gitolite.

The operating system user will be called **gitolite_server** to make it easy for our collaborators to remember.

\$ adduser -system --group --shell /bin/bash --disabled-password gitolite_server
\$ passwd gitolite_server
enter the password for gitolite server

2.To login to the gitolite_server

```
$ su - gitolite_server
$ passwd gitolite_server : 123456
```

3. Configure SSH Keys for Git Administration

On your **local** host i.e. **gitolite-admin** host, which you will be using to administor git and gitolite, you need to create an SSH key pair if you have not done so already.

Note: If you already have a key pair created, you skip this command to avoid overwriting your SSH keys

• Go to ssh directory

\$ cd ~/.ssh

• Type the below commands to generate ssh keypair

\$ ssh-keygen

file_name :leave empty passphrase :leave empty

• Go back to home directory and send the generated key to gitolite server by typing the below cmd

```
$ scp ~/.ssh/id_rsa.pub
gitolite_server @192.168.4.30:/home/head_server/admin.pub
```

• Intsall git and gitolite on local host

\$ sudo apt-get-install gitolite3 \$ sudo apt-get install git-core

4.To Configure Gitolite on the Gitolite server

Switch to Gitolite server terminal

• Clone gitolite repository from the Github repo

\$ git clone https://github.com/sitaramc/gitolite.git

Once cloned gitolite-admin to your gitolite server

Make a bin directory

\$ mkdir -p \$HOME/bin

• Install gitolite \$ gitolite/install -to \$HOME/bin

• Set the Admin key sent from your local host to server

\$ gitolite setup -pk admin.pub

5. How To Make as Gitolite Administrator

Switch to local host terminal

• make a temp dir to have gitolite-admin

\$ mkdir tmp

• Change to temp directory

\$ cd tmp

• Clone gitolite admin from gitolite server

\$ git clone gitolite_server@192.168.4.30:gitolite:admin

• Now gitolite-admin directory cloned to your temp directory from server

6.Add New Users to Gitolite

• Switch to any User host

Note: If you already have a key pair created, you skip this command to avoid overwriting your SSH keys

Go to ssh directory

\$ cd ~/.ssh

• Type the below commands to generate ssh keypair

\$ ssh-keygen

file_name :leave empty passphrase :leave empty

Go back to home directory and send the generated key to gitolite server bnt typing the below cmd

\$ cd ~ \$ scp ~/.ssh/id_rsa.pub gitolite_admin@192.168.4.30:~/tmp/gitolite-admin/keydir/"username.pub"

7. Give configuration to the user according to the priority Switch to local-host (gitolite-admin)

• Go to the gitolite-admin dir

\$ cd tmp/gitolite-admin

\$ cd conf

\$ vi gitolite.conf

add a repo and give the read, write push, pull permissions to the added users

repo foo

RW+ = alice RW = bob R = carol

• Once you have made these changes, add and push the changes to server :

```
git add conf
git add keydir
git commit -m "added foo, gave access to alice, bob, carol"
git push
```

8.To clone the created repo to the users

```
$ git clone gitolite_server@192.168.4.30:"repo_name"
```

9.To delete server

```
>> $userdel git_server
```

>> \$ sudo rm -rf/home/git_server