Github:

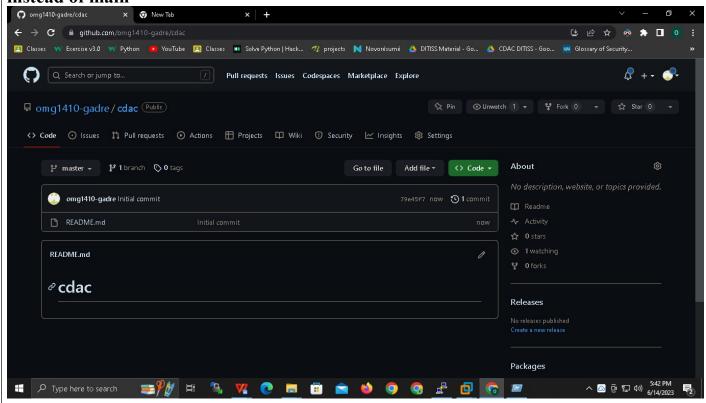
GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere.

Login to Git account

Create new repository-

- -> Repositories
- -> New
- -> Give repository name
- -> Choose private or public
- -> Choose README file (optional)
- -> Choose branch as master
 - -> Setting -> repositories -> repository default branch -> type master

instead of main



Take one debian-

- -> Install git
 - \$ sudo apt -get install git
 - **\$ git --version (2.20.1)**
- -> Create one directory
 - \$ mkdir cdac (assign same name as given in git)
- -> Go to this directory
 - \$ cd iacsd

```
-> Initialize this directory as Git directory it is imp
      $ git init (we are initalliazing git to run till shutdown)
      $ git branch -m main (to change branch name)
-> View hidden files (.git)
      $ ls -a
-> Create new file
      $ nano index.html
-> To check git status
      $ git status
       nuhari@debian:~/cdac$ sudo git status
        branch master
         commits yet
        ntracked files:
        (use "git add <file>..." to include in what will be committed)
-> To add file in staging area
      -> git add index.html
-> Optional
      -> To remove file from staging area
            -> git rm index.html
-> To commit change
      -> git commit -m "First commit"
-> Set email and name details
      -> git config --global user.email "ojasjawale1010@gmail.com"
      -> git config --global user.name "ojasjawale"
-> git status
-> To view git logs
      -> git log
-> Add remote origin
      -> git remote add origin "ssh key from gui of git ..."
            -> (go to git -> select repository created -> code -> SSH -> copy this key and
      paste in " ")
-> Generate key to connect with git
```

```
-> Go the directory (e.g = iacsd)
           -> ssh-kevgen
           -> don't use sudo in any of the commands cause if put sudo then this will
     accessible only for
                              root user
-> Go to /home/shuhari/.ssh/
     -> Copy key created (copy this public key and paste on the github select
                              deploy keys -> paste )
repository -> setting ->
     -> git pull origin master
     -> git config pull.rebase true
     -> git pull origin master
-> Finally push all files to master branch
     -> git push origin master
-> create new file
-> do this process as it is
->
-> mkdir cdac
-> cd cdac
-> git init
->
As default name is master then no warning message has appeared
A shuhari@debian: ~/iacsd
shuhari@debian: ~/iacsd$ git init
/home/shuhari/iacsd/.git: Permission denied
shuhari@debian:~/iacsd$ sudo git init
Initialized empty Git repository in /home/shuhari/iacsd/.git/
shuhari@debian:~/iacsd$
 snunariedebian: ~/iacsd; sudo git branch -m master
 error: refname refs/heads/master not found
 fatal: Branch rename failed
shuhari@debian:~/iacsd$ sudo git init
Reinitialized existing Git repository in /home/shuhari/iacsd/.git/
 shuhari@debian:~/iacsd$ ls -a
 shuhari@debian:~/iacsd$
```

```
GNU nano 3.2 index.html

<hr/>
<hr/>
<hr/>
<TITLE>Welcome to my Git </TITLE>
<hr/>
<
```

Staging area :As the name implies, the staging area gives you space to prepare (stage) the changes that will be reflected on the next commit.

\$sudo git commit

```
GNU nano 3.2 /home/shuhari/iacsd/.git/COMMIT_EDITMSG

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# Committer: root <root@debian.shuharilabs.local>
#
# On branch master
#
# Initial commit
#
# Changes to be committed:
# new file: index.html
```

```
A shuhari@debian: ~/iacsd
shuhari@debian:~/iacsd$ sudo git config --global user.email "omkargadre1410@gmail.com"
shuhari@debian:~/iacsd$ sudo git config --global user.name "OMG"
shuhari@debian:~/iacsd$ sudo git commit -m "first"
On branch master
nothing to commit, working tree clean
shuhari@debian:~/iacsd$ sudo git commit -m "first"
On branch master
nothing to commit, working tree clean
shuhari@debian:~/iacsd$ sudo git config --global user.email "omkargadre1410@gmail.com"
shuhari@debian:~/iacsd$ sudo git config --global user.name "OMG"
shuhari@debian:~/iacsd$ sudo git commit -m "first"
On branch master
nothing to commit, working tree clean
shuhari@debian:~/iacsd$ sudo git log
commit 6f94c0e2443f44c9le1adf4a2db73ccb0ecc004d (HEAD -> master)
Author: root <root@debian.shuharilabs.local>
```

Modify the index.html file:

```
shuhari@debian:~/iacsd$ sudo nano index.html
shuhari@debian:~/iacsd$ sudo git status
On branch master
Changes not staged for commit:
 (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
shuhari@debian:~/iacsd$
                    Type here to search
shuhari@debian:~/iacsd$ sudo git add index.html
shuhari@debian:~/iacsd$ sudo git commit -m "second"
[master b35ba44] second
  1 file changed, 3 insertions(+), 2 deletions(-)
shuhari@debian:~/iacsd$
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6/14/2023
Changes not staged for commit:
no changes added to commit
shuhari@debian:~/iacsd$ sudo git log
                                    3ccb0ecc004d (HEAD -> master)
commit 6f94c0e2443f44c91e1adf4a2db7
Author: root <root@debian.shuharilabs.local>
       Wed Jun 14 05:31:00 2023 -0400
Date:
    first
shuhari@debian:~/iacsd$ sudo qit add index.html
shuhari@debian:~/iacsd$ sudo git commit -m "second"
[master b35ba44] second
1 file changed, 3 insertions(+), 2 deletions(-) shuhari@debian:~/iacsd$ sudo git status
On branch master
nothing to commit, working tree clean
shuhari@debian:~/iacsd$ sudo git log
commit b35ba44aa77da297b34ceb688593099831e27117 (HEAD -> master)
Author: OMG <omkargadre1410@gmail.com>
       Wed Jun 14 05:39:36 2023 -0400
Date:
commit 6f94c0e2443f44c91e1adf4a2db73ccb0ecc004d
Author: root <root@debian.shuharilabs.local>
       Wed Jun 14 05:31:00 2023 -0400
Date:
shuhari@debian:~/iacsd$ 🧧
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```

Now the file is created in local repository we need to push \$ git push origin master \$ git remote add origin "...copy from github ssh" \$sudo git push origin master \$ssh-keygen (if we do with sudo it will generate for root) shuhari@debian:~/iacsd\$ cd .. shuhari@debian:~\$ ls -abash_history .bash_logout .bashrc iacsd .profile .ssh shuhari@debian:~\$ cd .ssh shuhari@debian:~/.ssh\$ ls -1 -rw----- 1 shuhari shuhari 1823 Jun 14 05:59 id_rsa -rw-r--r- 1 shuhari shuhari 396 Jun 14 05:59 id_rsa.pub -rw-r--r-- 1 shuhari shuhari 444 Jun 14 05:48 known_hosts shuhari@debian:~/.ssh\$ cat id rsa.pub ssh-rsa AAAAB3NzaClyc2EAAAADAQABAAABAQCcwaD41Fj3w6CrWwJuv7el7sBG94xMy6rq6yspNYUyyje0M/mNH5RRKiR+Vhj1uPfbpvRz2KxKEL9J30LlaWf62pVMZ1Tz1yWdILfkwFeG7X6K5Gc6kBI0WfdKiI6NPd4egGDhGBSejk1XsAUqsERdqFP4qn7HqOucwrAqkeDDcucy2dzn7h7MRX2zFhyse7N9TIfx7OG52NOfv6aai9qru+qGjwCCENMdhqt/jaEMEVgxIX+PN94KgiV+SRZ5nUnQxVG9qj 1Hjc/iPpCnKnmap59fdGETuo+DI3M4C7dScnfvnABRBzfjEO5gk1VnFkjrWP/CfsQk94uD5 shuhari@debian shuhari@debian:~/.ssh\$ 🧧 へ ⑤ ② 記 ⑴ 3:30 PM 6/14/2023 **②** 💶 🔎 Type here to search 🚎 🎢 🛱 😘 💘 💽 🔚 🖫 💼 🕥 🍏 🔘 🚱 👺 📵 😘 📓 Copy key from // and go to github -> deploy keys -> **Key added:**