Git Commands:

* One time set-up:

We can configure in 3 stage: Local (Its only appliable at local only) , Global(Most commonly used. The use that ur logged in the server), System

1. $ git config --global user.email “mailid”
2. $ git config --global user.name “name”
3. $ git config –list (to find the list of user)

* How check the files that are committed

$git ls-file

* Where can we check User details in Git

The details are stored in Git config file

$ git ~/.gitconfig (where we can see the file)

* How to create a git repository

Steps1: Create a folder

Step2: open the folder and give left click ad “git bash here”

Step3: git init. (to make git repository)

* How to add file to stage

Git add file\_name file\_name (or) Git add all

Git commit -m “msg”

* How to track ur commits

Git log

Git log –- oneline (its displays one line)

**NOTE: Working directory (before add) 🡪 Staging area (after add and before commit) 🡪 Local repository**

* How can we see list of commits for a file

git log --oneline -M --stat --follow -- index1.html

git log -M --stat --follow -- index1.html

* How to move head in wfter commit

Git reset –-hard commit-id

Git reset –soft commit-id

* How can we find what change made using commit id

Git show commit-id

* How can we compare a file before adding to staging area

Git diff index1.html

* How to compare working area to staging area

Git diff

* How to delete a file in local repository

Git rm index1.html

Git commit -m “delete”

* How to revert the git log after delete the file

Git revert head-commit-id

* How to compare staging area to local rep

Git diff –staged (or) Git diff –staged HEAD

* How to compare working area to local rep

Git diff HEAD

* How to compare b/w commits

Git diff kjj34r jn45rm (Commit 1st 6 digits)

* How to find who update the file

$ git annotate contact.html

* How to revert to previous version

Git checkout logid

* How to get back to master commit

Git switch –

* How to create new test branch

Git branch test

* How to change from main branch to test branch

Git checkout test

* How to merge to branch

1st we have to switch to main branch and merge the branches

Git Merge test

* How to add tag

Git tag v1.0

* How to change a branch name

You should be in master branch

Git branch -m dev-branch deve-branch

* How to delete the branch

Git branch -d dev-branch

* How to check which branch are not merged

Git branch –no-merge

* How to merge multiple commits

Git Merge head~3 or git cherry-pick cbbe8e b8b4946

GITHUB

ghp\_NyVELSaHti4zNfQVdhjpXkbKZ5rVCz2ilBsu

* How to connect using Https?

Go to settings🡪 developer settings 🡪 token classic and copy the personal token

Create a repo in GitHub after that select https.

If u have used ssh once use “$ git remote -v”. if its is ssh the use “$ git remote rm origin”

* How to clone and pull the repository using SSH

Ssh-keygen

$ eval "$(ssh-agent -s)”

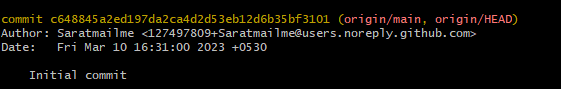
$ ssh-add ~/.ssh/id\_rsa

* How to clone GitHub repository

If u dnt have any local repo then we will use git clone for the 1st time

Git clone <https://github.com/Saratmailme/Gitrepo.git> (link from github)

* How to add our changes to git hub after commit in local repository



Git push origin main (for linux)

Git push <https://github.com/Saratmailme/Gitrepo.git>

* Command to push local repository to GITHUB

Create new repository in GITHUB without README file

git remote add origin git@github.com:Saratmailme/hin.git

git branch -M main

git push -u origin main

* How to push a branch to GitHub branch

Create a branch in local repo with branch1

Create a branch in GitHub with branch1

$ git push origin branch1

Project:

1. Create private repository
2. Create 3 barnch’s (prod, UAT and dev)
3. Add team as collaborats
4. Enable SSh based authencation
5. Protect Prod and UAT
   * + Approval needed to check-in code on UAT 2 approvals for Prod

Solution: