

Sudo -i froot user y. whoami Yum install git 15) ant -- version. mkdir git-repo. -> cd apt-sepol. -> (to convert to repo) pwd. git mit 18 12 when ght installised it created a hidden. pwd. directory called ogit/ 1s -a cd ogit/ 15 cd .. 46) gôt Status V Comple. Cx touch Sample. tat. 1s -a. cd .git/ cd ..

Cto know the status). git status). (· current Location). 47) git add. ts .git/ -> (Index staging area) cat git/index. ofit status git branch. because no commit is made). -> (No branch " created sample.tat" 48) gft commit -m 49) ght branch. ___ C Master bromch is created). apt status. mit stepen vi sample tut -> Added some tent t. got add. git status afit commit -m " hree lines added"

CTO see commit id's and all the commit History). git config -- global user, name "user name" At config --global user, email "user smail" Vi sample. tolt - Add tent 4 git commit -am "message". git add. git commit -m "massagegit status git log.

GIT HUB: Working with GITHUB. Github.com -> Sign up. - required details. Create a repository. Owner / Repository * gitub-repo. -> centra lized repository. Created a repo. -> Now take centralized repo data to Local repo Go to account. Open me repo. Less: gstub-repoje. (copy me parth). >HTTPS Process →Local work station € 51) Sudo -i Copy me path from 51) ont clone (path). Git Hub). cd gêt-repol (Local repo).

Cit we get any path 52) got remote -V then it is a central repo). cd ... MALES ed gitub-repol Cit we check again we can + git remote-v see a path, Honce it's a central repo). =) instead reggering me whole path we can take. origin. (Default). (placing some code) tach login-java nt status git add. git commit -m "login file oreated" git branch (Bromch main is created * mam on GITHUB it is 'marin' on Local (Git) it is 'master') CHISTON is created). git log git status (to poush changes from Local to Remote (Contral). 53) git prush

user name: ? (gft GITHUB account
Pars word: details.).
-> Access deniced - Poss-Ath is remove.
so, we token from GITHUB.
Go to Githmb. Settings.
* Developer setting.
* Personal access tokens - Generate new token.
*NOT
githb-token.
Expration
go days.
* Generate the token.
copy the token otherwise if we loose the
token we have re-generate the tokens.
<u>60</u> <u>to local</u> :
user name: GITHUB user name
Password: Token.
gfit log.

go To Github ?- Check the github. Everthing is updated (Bromch). (To confirm both docal and central are in sync).
or to syncranize). (Add comment). vi login-java cat login. java git add. git add.
git commit -m "message" git log. cat login. java git push Wer name: Token. password :

54) git prul = Fetch + merge.

88++ Mechanism: (GITHUB) m SSH :- NO username:-(i.e.-Token) and No password: 884: - connecting to remote server securely. The process is on the control machine you need a user and for user you have to generali Public and private key and on the Remote mach to the user you have to copy the public key. on me remote side if you have the public key. of user you can take the private key then Straight porward with private key we can connect. cd. Coseate a Private & poublic) SSh-key Enter Enter Enter cd.sshl (cospy mis public key & parte in Gittino app) cat id-rsa. pub

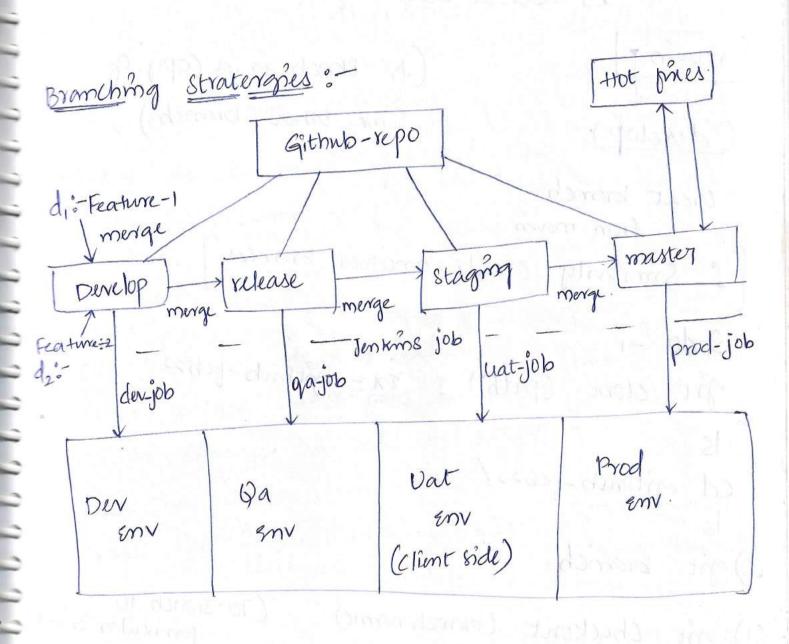
key from Github account To copy the public Gittub settings. * Est and GPG Keys. (create) - New SSH key. sn: yout - key. mkair ssh. cd ssh/ (SSH Coption) copy the git clone (paste) path) cd oftub-supo/ git remote - V. touch readme tout. git status ont add. git commit -m "readme pile added" aft push. git log.

touch mytack. tyt. (Add (or) Edit comment). Vi my tack . talt git status. (Will Pamore the content). 55) touch git ignore. 18 18 -a. vi aftignore -> Cadd file for which content you want to regnore). git status gfit add. git commit -m "message" git Push. 56) git diff (compare the changes Ch/w branches. commits, Local and remote). 57). Ps -ef (what are the services are running Ps -ep | grep httpd (to know a panticular service running cor) not. Ps - ep | grep (service home) (network ports running). 58) netstat -nltp

To modify the commite message?

69) git commit --amend -m "message"

(it will also create a New commit id)



creating a branchit (from "Github" side) Create a New repo gothub-feb 22 I Add a Readme Pile (A Branch is a copy of some other branch). (develop) creat branch from main . 8 milarly create omomer brances] Sudo -i En: gsthub-geb 22 ght clone (path) ed afthub-feb22/ 60) gfit bromch. (To switch to particular branch) Checkout (branch name)

creating branch on docal: (feature) Make Sure you need to be on the source bromch. when exeating a boranch. creating a branch Locally it a 62) git branch (branch name) copy of source git diff main feature-1 branch). -> % we see any any result they are in some copy.

* Developer:

- 1. clone/pull the code into local.
- 2. Create gesture branch from develop/master.
- 3. Do the Changes then add and commit.
- 4. Push the feature branch to Gittub.
- 5. create Pull Request CPR) (Meraping peature branch to develop branch)

Reviewer :-

- 6- Recieve mail with Pull Request number.
- 7. Review the code and provide the comments.
- 8. Merge the Pull request.
- q. Delete me feature branch.

en Remote:

Branches.

Default branch: Rename (or) Change the branch to default branch

-

Bramch Protection rules: - We can apply Protection rules and Pull request

Always man's is default branch, but to change any other branch to default (Go to default any other branch to default (Gr to default (Gr to the branch)

[When we run (git push (or) git pull)

(Connect to the repo and sync default branch)

on Local:

Swhen we are not dealing with default branch
we have give entra arguments, en: origin
we have give entra arguments.

"origin is reflerence name".

en:- git prush origin teature-1

on remote :-
compare and Pull request
Base Compare develop (feature)
cut bromch = creating a bromch from source.
Em :- git pull origin develop. to be in sync with.
devolop on me remote.
Merging Locally: When ever you want to merge branch Locally, make when ever you want to merge branch. Then apply sure, you are one the target branch. Then apply
Sure, you are one the tanger to mother repo: - (Fork). Moving code from one repo to another repo: - (Fork).
github-feb22 main
main (main)
- git clone (path of another repo) en: - feb 1522 - cd github-feb 22 (path copied).
- cd github-feb22 jet remote add feb1522 (path copied). path resh feb1522 main)

Rename -Branches:
(Remote):-
go to branches and pencil symbol and rename
likewise we can delete the banches also.
on docal :
ed github-feb22/
all to locate the second of th
a) in I wanth name) Court
and and formation -m
the name of the branch on Local
-> To change the name of the branch on Local
64) git branch -a it will give me details of both Local and
remote branches.
65) ght branch -r — it will give the details of only remote branches.
- it will give the allacos
git remote-V rejevence Corigin).
a 1 anti VIII (a l
66) Aft remote rm (reg name) To view rm (reg name) To view rm (reg name) To view rm (reg name)

mkdir git-merge-repo: cd git-merge-repol > ght mit touch sample talt git add. git commit -m "sample file". git status. git branch. git branch develop. afit branch git branch feature-1 ght branch. gst checkont reature-1 Vi Sample tolt -> Add (or) Edit comment. git add. git commit -m "message" git diff master develop. git din master seature-1 git checkout develop when merging locally you should be target branch

get branch git merge feature-1 Cat sample tolt git branch. git dip develop feature-1 git branch. **** pranch -- merged (bornch name). -> To know the branches that are merged. ***

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** git branch -- no-merged (branch name). -> To know the branches that are not merged. Ex! - git branch -- no-merged master. git branch -- merged develop. git branch.

```
-> conflicts:
 Can be resolved in 4 pollowing ways:
* Mamual
* Tools
*IDE CDeveloper side)
 ant branch
 cat Sample tat.
 git Checkout master.
 git branch.
 cat Sample.tat.
 Vi sample. tat
  -> Edit: En: These Changes are from master
 git Status
 git add.
 git commit -m "message"
 cat sample. tat.
 git dip master develop.
  git branch.
  git checkont warren
```

ght branch. git mergi develop -> conflict araised sat sample - txt -> it will show the Changes Vi sample. tolt > delete 'dd' section first me select me appropriate < git status. git add. git commit -m "conflict fined" git status git merge develop. > Already up to date < * This is Locally *

(Remote). using UI: rm of github-jeb22 git clone (path). cd github-feb 22 git branch. git cheekout release git branch. git branch release -1 oft checkont release-1 git branch. vi sample tut Edit En: - These Changes are from release-1 git add. git commit -m "release-1 by changes" on Remote release 1. This is prest line. 2. This is second hime 3. Torese champes once from release branch.

Local : got push origin release - 1 on Remote: in local 1-1] Pull request compare git merge. in remote 1-1 git pull Source create pull request Resolve conflict mark resolved select delete. Local Both the only target Source 4 ed git-merge-repo/ bromch than target - ges remain will Change afit bosonch. the same cat Sample. tat git checkont develop. cat Sample. tat

using Merge Tooks; Cold process). nt branch. git branch sprint-1 git diff develop sprint-1 vi sample-tat 2. These Changes are from develop for git add. git commit -m "message" git branch. git checkent sprint-1 git branch. Vi sample. tat > 2. These Changes are from sprint-1 br git add. git commit -m "sprimt-1 Changes". git branch. git checkont develop. oft branch. oft merge sprint-1

git merge tool of ght mergetool ? En:-(vimdipp) Enter. 2 (ocal comple Bax Sample remote : di 859 10 conflict · wga get add. git commit -m "conflict resolved" git merge sprint-1

Branch Deletions:

Remote :-

Go to Branch.

Delete the branch which is not needed.

Ext: feature - 1

release -1

Locally:-

67) git branch -d sprint-1 (80ft)

-> branch deleted

git branch - D (Branch name) (Forcepul).

68) git branch -- merged I grep - V /* 1 xarrags git branch -D

-> To delete branch which are already merged.

69) got push origin: main -1

To delete remote branch from Local Server.

Versioning: gst log. git branch. git log. m -m * mkan get-repo. ed git-repol gft mit -touch sample tat. (Fdit: - This is prist line). vi sample talt got add. " message" ght commit -m got branch. echo "mis is the second line" >> Sample. tit. gst log. Cat Sample. tat ght commit am "message ght log afit branch develop.

apt branch. ght checkont develop. git branch (19) ght log. echo "This is the shird line" >> Completat git commit - and " message" cat sample tolt git log. git checkont marter. git log. git show (commit 1d). we can see actual data in me commit git dip (commitd) (commit 1d-2) -> to see the changes in History b/w commit id to datest 1d). got checkont develop. got branch git logis put but ment brokens on the blanking in

To go To particular commit 1d: 70) git checkout (commit 1d) -> to switch to previous (or) particular commit Id we can use checkout command. 71) git Switch - c (new branch name). git branch. git log. cat somple. tat. Tagging (Alias of commit 1d). i) light weighted Tag. ii) Annonated tag. 72) gft tag - L -> To check if any Tags are already present. git tag VI.2 -> If provided no committed then the tag will apply to the datest commit Id

(Now you can see a tag). git log. ght show (version). ->

To see the particular vision and its History. 73) gôt tag (version) (commit 1d). _ > TO grave give versión to a particular commit 1d. gitte diff (version 1) (version 2) > To see me difference b/w two versions. gt checkout (version) -> To switch to the Version. git switch -c (version). To see versions oreated sofar *** got prush origin -- tags _ To push all the tags to remote. To push the particular tag to remote.

Annonated Tags:

- -> To add a message to tags.
- 76) git tag -a (version) -m "message.
- -> To add message to particular tag.
- 77) aft tag -d (version)
- To delete the version.
 - 78) aft push origin : (version)
 - To delete the version from the local in the
- 79) get 1s -remote -- tags.
- To know remote tags from local.
- 80) git tag -d \$(git tag-L).
- -> To delete all the tags from local
- 81) git 18 -remote -- tags reps origin remote

 remo
- 82) aft 16 remote tags reps origina cut 12 | xangs git push origin
 - (To delete all she rags).

```
Reverting Changes:
(63) get restore (file name) (before (add.) command
                     * working copy *.
(4) git 1--staged (file name)
-> (-After add. command) * Staging indext.
    git restore (file narme) to go back to original - No data-
 After the dog is created to revert the changes.

we have commit reset
   * got Yest Soft
   * git rest mined
(35) git reset --soft (commit 1d) (git reset soft).
   * got rest Hard
                 For which commit we want togo
                           en- cat somple talt
  There Still the data is present
 -> From crepo to staging index, mis data is present.
 3=) get reset --mined (commit id) (git reset mined)
                  For which commit we want togo.
     Here No data is present.
           repo to working copy.
```

87) git reset -- hard Crommit Id) Cgit reset hand). For which commit id we want togo. > No data, will directly go to the commit id we \$) git revert (commit Id) it won't delete me commit Id instead creates
hew commit on top of enisting one. Cherry-Pick :
(Merge)

Whenever you want to take a particular commit noto your target branch "cherry pick is used. *89) git cherry-pock (commit Id). Stashing o- (This works after the commit -m). -> Storing me data in bupper. -90) git stash list (TO view the list mi-Stash Relig) 91) got stash (to stash me changes) 92) got stash apply (to bring back changes) _ 93) git stash Pop (it will remove the stash entry)

got start apply (Id). If we want to work with particular starsh. En: ght stash apply stash @ 619 > We can see Starth Id's from Starth list (Re-arrange the thistory). To maintain proper history we will use "Rebase" Ne com shupple the history Squeet the history. rebase Feature -1 release Idevelop Feature -2 Fort pornavrol. master. Feature astalt actost botat aaa 6, txt Cotat. bbb (Short form of log id) 95) git log -- oneline and message.