## **5.GitDemo-HOL**

## **Objectives**

* Explain how to clean up and push back to remote Git

In this hands-on lab, you will learn how to:

* Execute steps involving clean up and push back to remote Git.

## **Prerequisites**

The following are the pre-requisites to complete this hands-on lab:

* Hands-on ID: **“Git-T03-HOL\_002”**

Notes\*:

|  |
| --- |
| Please follow the below steps for creating a free account in GitHub.  Do not use cognizant credentials to login to GitHub. |

Estimated time to complete this lab: **10 minutes.**

Please follow the instructions to complete the hands-on. Each instruction expects a command for the Git Bash.

1. Verify if master is in clean state.
2. List out all the available branches.
3. Pull the remote git repository to the master
4. Push the changes, which are pending from **“Git-T03-HOL\_002”** to the remote repository.
5. Observe if the changes are reflected in the remote repository.

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git checkout master

git status

Warning: you are leaving 8 commits behind, not connected to

any of your branches:

292a2d9 Add backup files to .gitignore

91456f3 Add hello.xml with master content

7ebecad Save changes before switching branches

68d7dce Add notes.txt file

... and 4 more.

If you want to keep them by creating a new branch, this may be a good time

to do so with:

git branch <new-branch-name> 292a2d9

branch 'master' set up to track 'origin/master'.

Switched to a new branch 'master'

On branch master

Your branch is up to date with 'origin/master'.

Last commands done (7 commands done):

pick c2ee704 # Add README for GitHub visibility

pick 5f662d0 # Update README with heading and description

(see more in file .git/rebase-merge/done)

Next command to do (1 remaining command):

pick 2f37659 # Rewrite README with heading and description

(use "git rebase --edit-todo" to view and edit)

You are currently editing a commit while rebasing branch 'main' on '166cfd4'.

(use "git commit --amend" to amend the current commit)

(use "git rebase --continue" once you are satisfied with your changes)

nothing to commit, working tree clean

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git branch -a

GitNewBranch

main

\* master

remotes/origin/main

remotes/origin/master

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git pull origin master

fatal: couldn't find remote ref master

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git fetch --prune

git branch -r

From https://github.com/AY-ADITI/GitDemo

- [deleted] (none) -> origin/master

origin/HEAD -> origin/main

origin/main

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git checkout main

git pull origin main

Switched to branch 'main'

From https://github.com/AY-ADITI/GitDemo

\* branch main -> FETCH\_HEAD

fatal: refusing to merge unrelated histories

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git pull origin main --allow-unrelated-histories

From https://github.com/AY-ADITI/GitDemo

\* branch main -> FETCH\_HEAD

Auto-merging README.md

CONFLICT (add/add): Merge conflict in README.md

Automatic merge failed; fix conflicts and then commit the result.

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git pull origin main --allow-unrelated-histories

error: Pulling is not possible because you have unmerged files.

hint: Fix them up in the work tree, and then use 'git add/rm <file>'

hint: as appropriate to mark resolution and make a commit.

fatal: Exiting because of an unresolved conflict.

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git add README.md

git commit -m "Resolved merge conflict in README.md"

[main 0a7aa4c] Resolved merge conflict in README.md

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git push origin main

Enumerating objects: 32, done.

Counting objects: 100% (32/32), done.

Delta compression using up to 8 threads

Compressing objects: 100% (21/21), done.

Writing objects: 100% (30/30), 2.81 KiB | 575.00 KiB/s, done.

Total 30 (delta 6), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (6/6), done.

To https://github.com/AY-ADITI/GitDemo.git

166cfd4..0a7aa4c main -> main

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git branch -a

GitNewBranch

\* main

master

remotes/origin/HEAD -> origin/main

remotes/origin/main

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$ git pull origin main

From https://github.com/AY-ADITI/GitDemo

\* branch main -> FETCH\_HEAD

Already up to date.

Aditi yadav@LAPTOP-MUPGB4MO MINGW64 ~/GitDemo (main|REBASE 7/8)

$

