

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**”

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

Procedure:

1. Verify if master is in clean state

```
git checkout master
git status
```

You should see:

```
On branch master
nothing to commit, working tree clean
```

If not, commit or stash your pending changes.

```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (main)
$ git branch master

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (main)
$ git checkout master
Switched to branch 'master'

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git status
On branch master
nothing to commit, working tree clean
```

2. List out all the available branches

git branch -a

This will show local and remote branches.

```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git branch -a
  main
* master
remotes/origin/main
```

3. Pull the remote git repository to the master

git pull origin master

This ensures your local master is up-to-date with the remote.

4. Push the changes from "Git-T03-HOL_002"

If your work for that lab is in a separate branch (example: Git-T03-HOL_002), switch to it:

```
git checkout Git-T03-HOL_002
git push origin Git-T03-HOL_002
```

If you've already merged it into master, just push master:

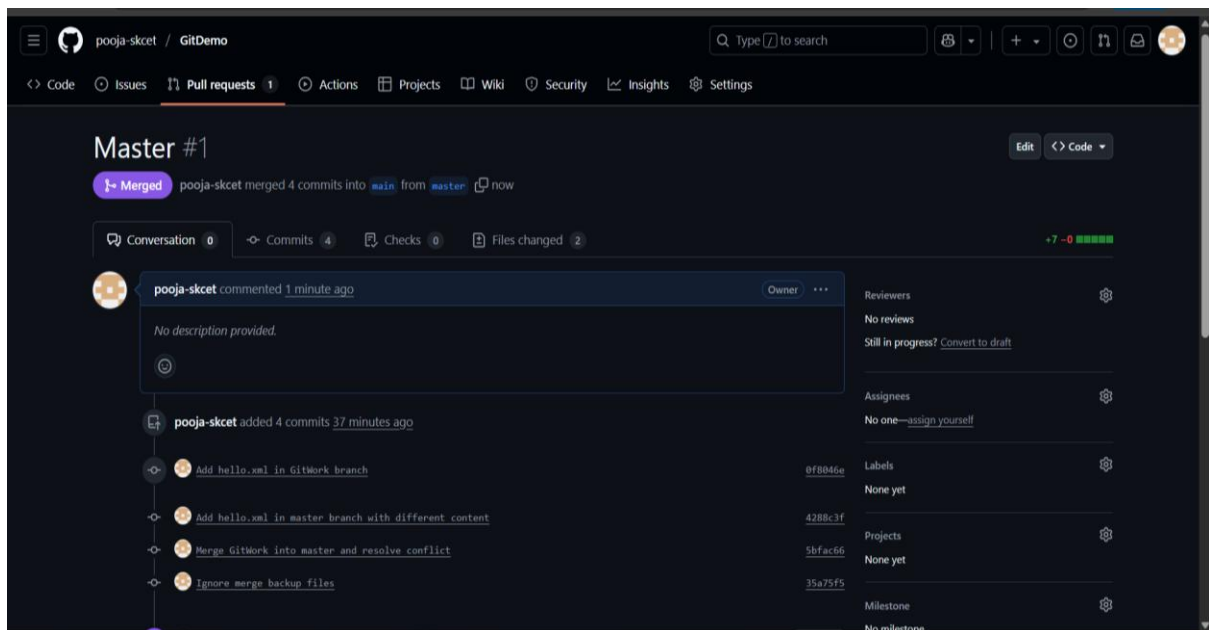
git push origin master

```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ git push origin master
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 12 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (12/12), 1.34 KiB | 343.00 KiB/s, done.
Total 12 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/pooja-skcet/GitDemo/pull/new/master
remote:
To https://github.com/pooja-skcet/GitDemo.git
 * [new branch]      master -> master
```

5. Verify changes on remote

After pushing, go to your GitHub repository in your browser and check if:

- The branch is updated (if pushing a feature branch).
- The master branch contains your latest commits (if merging first).



```
LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (master)
$ # Switch to the correct branch that matches the remote
git checkout main

# Make sure your local main is up to date
git pull origin main

# Push any remaining local commits from this lab
git push origin main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 4 commits.
  (use "git push" to publish your local commits)
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 891 bytes | 445.00 KiB/s, done.
From https://github.com/pooja-skct/GitDemo
 * branch            main       -> FETCH_HEAD
  fccbb92..645f089  main       -> origin/main
Updating 35a75f5..645f089
Fast-forward
Everything up-to-date

LENOVO@DESKTOP-292MR8U MINGW64 ~/GitDemo (main)
$ git branch -d master
Deleted branch master (was 35a75f5).
```