Week:8

**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.

Output:

Microsoft Windows [Version 10.0.26100.4652]

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C:\Users\harsh>mkdir git-cleanup-lab

C:\Users\harsh>cd git-cleanup-lab

C:\Users\harsh\git-cleanup-lab>git init

Initialized empty Git repository in C:/Users/harsh/git-cleanup-lab/.git/

C:\Users\harsh\git-cleanup-lab>echo "Initial commit for cleanup lab" > README.md

C:\Users\harsh\git-cleanup-lab>git add README.md

C:\Users\harsh\git-cleanup-lab>git commit -m "Initial commit"

[master (root-commit) f9535ad] Initial commit

1 file changed, 1 insertion(+)

create mode 100644 README.md

C:\Users\harsh\git-cleanup-lab>git remote add origin https://github.com/<your-username>/git-cleanup-lab.git

The system cannot find the file specified.

C:\Users\harsh\git-cleanup-lab>git remote add origin https://github.com/harshitasunkavalli/git\_clean.git

C:\Users\harsh\git-cleanup-lab>git branch -M master

C:\Users\harsh\git-cleanup-lab>git push -u origin master

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 251 bytes | 251.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/harshitasunkavalli/git\_clean.git

\* [new branch] master -> master

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

C:\Users\harsh\git-cleanup-lab>git branch -M main

C:\Users\harsh\git-cleanup-lab>git push -u origin main

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

remote:

remote: Create a pull request for 'main' on GitHub by visiting:

remote: https://github.com/harshitasunkavalli/git\_clean/pull/new/main

remote:

To https://github.com/harshitasunkavalli/git\_clean.git

\* [new branch] main -> main

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

C:\Users\harsh\git-cleanup-lab>git status

On branch main

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

nothing to commit, working tree clean

C:\Users\harsh\git-cleanup-lab>git branch

\* main

C:\Users\harsh\git-cleanup-lab>git branch -r

origin/main

origin/master

C:\Users\harsh\git-cleanup-lab>git checkout master

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

Switched to a new branch 'master'

C:\Users\harsh\git-cleanup-lab>git pull origin master

From https://github.com/harshitasunkavalli/git\_clean

\* branch master -> FETCH\_HEAD

Already up to date.

C:\Users\harsh\git-cleanup-lab>git checkout Git-T03-HOL\_002

error: pathspec 'Git-T03-HOL\_002' did not match any file(s) known to git

C:\Users\harsh\git-cleanup-lab>git status # Verify what’s pending

On branch master

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

nothing to commit, working tree clean

C:\Users\harsh\git-cleanup-lab>git add . # Add all changes

fatal: pathspec '#' did not match any files

C:\Users\harsh\git-cleanup-lab>git commit -m "Final changes for Git-T03-HOL\_002"

On branch master

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

nothing to commit, working tree clean

C:\Users\harsh\git-cleanup-lab>git push origin Git-T03-HOL\_002

error: src refspec Git-T03-HOL\_002 does not match any

error: failed to push some refs to 'https://github.com/harshitasunkavalli/git\_clean.git'

C:\Users\harsh\git-cleanup-lab>git branch

main

\* master

C:\Users\harsh\git-cleanup-lab>git branch -r

origin/main

origin/master

C:\Users\harsh\git-cleanup-lab>git checkout -b Git-T03-HOL\_002 origin/Git-T03-HOL\_002

fatal: 'origin/Git-T03-HOL\_002' is not a commit and a branch 'Git-T03-HOL\_002' cannot be created from it

C:\Users\harsh\git-cleanup-lab>git checkout -b Git-T03-HOL\_002

Switched to a new branch 'Git-T03-HOL\_002'

C:\Users\harsh\git-cleanup-lab>echo "Changes for Git-T03-HOL\_002" > lab002.txt

C:\Users\harsh\git-cleanup-lab>git add lab002.txt

C:\Users\harsh\git-cleanup-lab>git commit -m "Final changes for Git-T03-HOL\_002"

[Git-T03-HOL\_002 41ea722] Final changes for Git-T03-HOL\_002

1 file changed, 1 insertion(+)

create mode 100644 lab002.txt

C:\Users\harsh\git-cleanup-lab>git push -u origin Git-T03-HOL\_002

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 12 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 335 bytes | 335.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

remote:

remote: Create a pull request for 'Git-T03-HOL\_002' on GitHub by visiting:

remote: https://github.com/harshitasunkavalli/git\_clean/pull/new/Git-T03-HOL\_002

remote:

To https://github.com/harshitasunkavalli/git\_clean.git

\* [new branch] Git-T03-HOL\_002 -> Git-T03-HOL\_002

branch 'Git-T03-HOL\_002' set up to track 'origin/Git-T03-HOL\_002'.

C:\Users\harsh\git-cleanup-lab>git checkout master

Switched to branch 'master'

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

C:\Users\harsh\git-cleanup-lab>git merge Git-T03-HOL\_002

Updating f9535ad..41ea722

Fast-forward

lab002.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 lab002.txt

C:\Users\harsh\git-cleanup-lab>git push origin master

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

To https://github.com/harshitasunkavalli/git\_clean.git

f9535ad..41ea722 master -> master

C:\Users\harsh\git-cleanup-lab>

