

## 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.

```

mkanm@Kanmani MINGW64 ~/GitDemo (master|MERGING)
$ git mergetool
Merging:
hello.xml

Normal merge conflict for 'hello.xml':
  {local}: created file
  {remote}: created file
The merge tool p4merge is not available as 'p4merge'

mkanm@Kanmani MINGW64 ~/GitDemo (master|MERGING)
$ git add hello.xml
git commit -m "Resolved merge conflict in hello.xml"
[master 5835f40] Resolved merge conflict in hello.xml

mkanm@Kanmani MINGW64 ~/GitDemo (master)
$ echo "*.orig" >> .gitignore
git add .gitignore
git commit -m "Ignore merge backup files"
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
[master f633d1f] Ignore merge backup files
1 file changed, 1 insertion(+)

mkanm@Kanmani MINGW64 ~/GitDemo (master)
$ git branch
  GitNewBranch
  GitWork
* master

mkanm@Kanmani MINGW64 ~/GitDemo (master)
$ git branch -d GitWork
Deleted branch GitWork (was 895d9d2).

mkanm@Kanmani MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate
* f633d1f (HEAD -> master) Ignore merge backup files
* 5835f40 Resolved merge conflict in hello.xml
|\
| * 895d9d2 Added hello.xml in GitWork branch
* | 07f8d27 Added hello.xml in master branch
|/
* eb39665 Added branchfile.txt in GitNewBranch
* 88c907a (origin/master) Added .gitignore to ignore log files and logs folder
* 2dd964b Added welcome.txt

```

```

mkanm@Kanmani MINGW64 ~/GitDemo (master)
$ git checkout master
git status
Already on 'master'
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        hello_BACKUP_747.xml
        hello_BASE_747.xml
        hello_LOCAL_747.xml
        hello_REMOTE_747.xml

nothing added to commit but untracked files present (use "git add" to track)

mkanm@Kanmani MINGW64 ~/GitDemo (master)
$ git branch -a
  GitNewBranch
* master
  remotes/origin/GitNewBranch
  remotes/origin/master

mkanm@Kanmani MINGW64 ~/GitDemo (master)
$ git pull origin master
From https://gitlab.com/kanmanicse2022/GitDemo
 * branch      master       -> FETCH_HEAD
Already up to date.

mkanm@Kanmani 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), 1.28 KiB | 163.00 KiB/s, done.
Total 12 (delta 5), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for master, visit:
remote:   https://gitlab.com/kanmanicse2022/GitDemo/-/merge_requests/new?merge_request%5Bsource_branch%5D=
master
remote:
To https://gitlab.com/kanmanicse2022/GitDemo.git
 88c907a..f633d1f  master -> master

mkanm@Kanmani MINGW64 ~/GitDemo (master)
$ git pull --rebase origin master
git push origin master
From https://gitlab.com/kanmanicse2022/GitDemo
 * branch      master       -> FETCH_HEAD
Already up to date.
Everything up-to-date

```

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