## **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.

### **Theory**

1. **Why clean up?**
   1. Before pushing to the remote repository, it’s important to make sure your local branch is clean (no uncommitted changes) and in sync with the remote repository.
2. **What does pushing mean?**
   1. Pushing sends your local commits to the remote repository so that others can access them.
3. **Key steps:**
   1. Check the current branch and status.
   2. List all branches.
   3. Pull latest changes from remote.
   4. Push your local changes to remote.
   5. Verify on GitHub/GitLab that changes are reflected.

### **Step 1 – Verify master is clean**

### $ git checkout master $ git status On branch master nothing to commit, working tree clean

### **Step 2 – List all branches**

$ git branch -a  
\* master  
 GitWork  
 remotes/origin/master  
 remotes/origin/GitWork

### **Step 3 – Pull from remote to master**

$ git pull origin master  
Already up to date.

### **Step 4 – Push pending changes from previous lab**

$ git push origin master  
Enumerating objects: 6, done.  
Counting objects: 100% (6/6), done.  
Delta compression using up to 8 threads  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.  
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0  
To <https://gitlab.com/username/repository.git> 7a6b5c4..9x8y7z6 master -> master