## **5. Git-HOL**

**Task 5 - Git-T03-HOL\_002 – Clean up and Push Back to Remote Git**

**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**

* Hands-on ID: **Git-T03-HOL\_002**
* Please create a free account in GitHub/GitLab if you do not have one.
* Do not use Cognizant credentials to log in.

**Steps and Commands**

**1. Verify if master is in clean state**

Command:

git status

**Expected Output:**

* If your working tree is clean:

On branch master

nothing to commit, working tree clean

* If there are untracked files, add or delete them before continuing.

**2. List out all available branches**

Command:

git branch

**Expected Output:**

\* master

GitWork

feature-branch

(\* indicates the branch you are currently on.)

**3. Pull the remote git repository to the master**

First, switch to master branch:

git checkout master

Then pull the latest changes:

git pull origin master

**Expected Output:**

* If repository is already up to date:

Already up to date.

* If there are changes, Git will merge them into your local master.

**4. Create test.txt file and add content**

Command:

echo "This is a test file for Git-T03-HOL\_002" > test.txt

**5. Stage and commit the new file**

Command:

git add test.txt

git commit -m "Added test.txt for Git-T03-HOL\_002"

**Expected Output:**

[master abc1234] Added test.txt for Git-T03-HOL\_002

1 file changed, 1 insertion(+)

create mode 100644 test.txt

**6. Push the changes to the remote repository**

Command:

git push origin master

**Expected Output:**

Enumerating objects: X, done.

Counting objects: X, done.

Delta compression using up to 4 threads

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

Writing objects: 100% (X/X), done.

To https://gitlab.com/your-repo.git

abc1234..def5678 master -> master

**7. Observe if the changes are reflected in the remote repository**

* Go to your GitHub/GitLab repository page.
* Open the branch **master**.
* You should see the test.txt file with the content **"This is a test file for Git-T03-HOL\_002"** and the commit message **"Added test.txt for Git-T03-HOL\_002"**.