**Explain how to clean up and push back to remote Git in para**

Cleaning up and pushing back to a remote Git repository involves removing unwanted or outdated branches, commits, or files locally and then synchronizing those changes with the remote repository. This process typically starts with reviewing the repository’s current state using commands like git status and git branch -a to identify unnecessary branches or changes. Unwanted local branches can be deleted with git branch -d branch\_name (or -D for force deletion), and untracked files can be removed using git clean -f (and -fd to also remove directories). If you want to reset your local repository to match the remote, you can use git fetch --all followed by git reset --hard origin/branch\_name. Once the cleanup is complete, you can stage the desired changes using git add ., commit them with git commit -m "message", and push the updates to the remote repository using git push origin branch\_name. This ensures that both your local and remote repositories remain clean, up-to-date, and free of unnecessary clutter.

**Execute steps involving clean up and push back to remote Git.**

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

git status

* If it says *"working tree clean"*, it’s already clean.
* If there are untracked or modified files you want to discard:

git reset --hard

git clean -fd

**2. List out all the available branches**

git branch -a

* This shows both local and remote branches.

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

git checkout master

git pull origin master

* checkout ensures you are on the master branch.
* pull updates your local branch with the latest changes from the remote.

**4. Push the changes from “Git-T03-HOL\_002” to the remote repository**

git checkout Git-T03-HOL\_002

git push origin Git-T03-HOL\_002

* If you first need to merge changes from master before pushing:

git merge master

git push origin Git-T03-HOL\_002

**5. Verify changes in the remote repository**

* Open your repository in **GitHub** (or GitLab if using it) and check the branch Git-T03-HOL\_002.
* Ensure your commits/files are present.





