Git / GitHub Repository Lab

Note: If you do not already have a GitHub account, create a free account at https://github.com before starting this exercise and generate a Personal Access Token. This exercise can be done on either a Linux or Windows computer. Unless stated otherwise, use a terminal window or command prompt for all steps. Root or administrator credentials are required.

Verify Git and GitHub Configuration: (Refer to the "Git / GitHub Setup Lab" for help with these steps)
1. Verify that the git command is working and using your GitHub credentials
2. Verify that the GitHub CLI is working and using your GitHub credentials

Create a GitHub repository: (Use either the command-line tools or web browser)
1. Create a folder to be used for local repositories on your computer and make it your working directory. (e.g. mkdir projects ; cd projects)
2. Create a new repository in GitHub with a name of your choice. (e.g., "gh create-repo repo123")
3. Verify that the repository has been created from your browser (https://github.com login)
4. Clone the remote repository to your local computer. (e.g. "git clone <remote repo.git>")
5. Make the new local repository folder your working directory (e.g. "cd <remote repo>")
6. Verify the status of the repository by running "git status"

Add files to the local repository:
1. Create or add two simple text files to the local repository folder.
2. Verify that git recognizes the change by running: "git status"
3. Add the two new files to the staging area (e.g. "git add -all")
4. Update the local repository with the changed files (e.g. "git commit -m "First repo update")
5. Verify your repository commits with the command: "git log"

Update the remote repository:
1. Push the local repository changes to the remote repository (GitHub): "git push"
2. Verify that the repository has been updated from your browser (https://github.com login)

Add files to the remote repository (GitHub):
1. Create or add two simple text files to the repository on GitHub using your browser.
2. Update the local repository with the changes on GitHub: "git pull"