

Lesson 02 Demo 01

Create and Clone a GitHub Repository

Objective: To create and clone a GitHub repository.

Prerequisite: Make sure you have a Github Account available. If not, please create one using the given link.

https://github.com/join?ref_cta=Sign+up&ref_loc=header+logged+out&ref_page=%2F&source=header-home

Tools required: Git

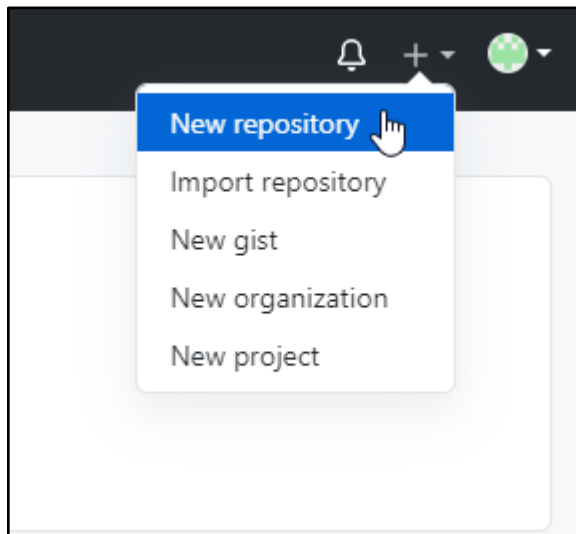
Steps to be followed:

1. Create a new Github repository
2. Edit the README file
3. Create a file in the repository
4. Clone the Github repository

Step 1: Create a new GitHub repository

1.1 Open a browser in your lab, go to **github.com**, and log in to your account.

1.2 Click on the + icon from the upper-right corner of the page, and select **New repository** from the drop-down menu.



1.3 Enter *sample repository* in the **Repository** field. Entering a **Description** is optional.

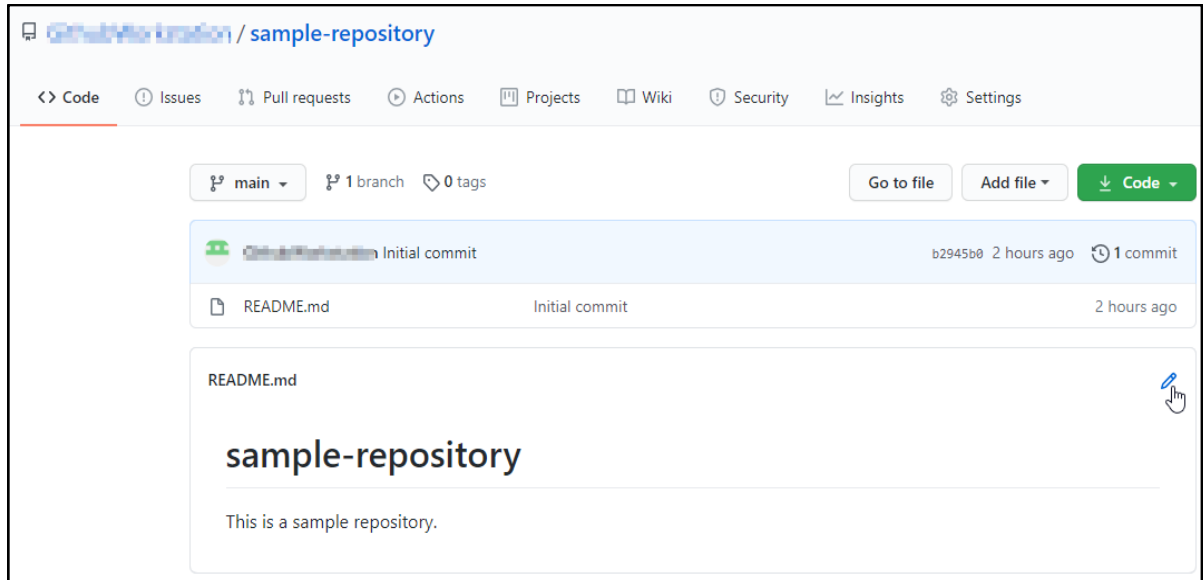
1.4 Choose **Public** for the repository type.

1.5 Select **Initialize this repository with a README** to include a *README* file for the repository.

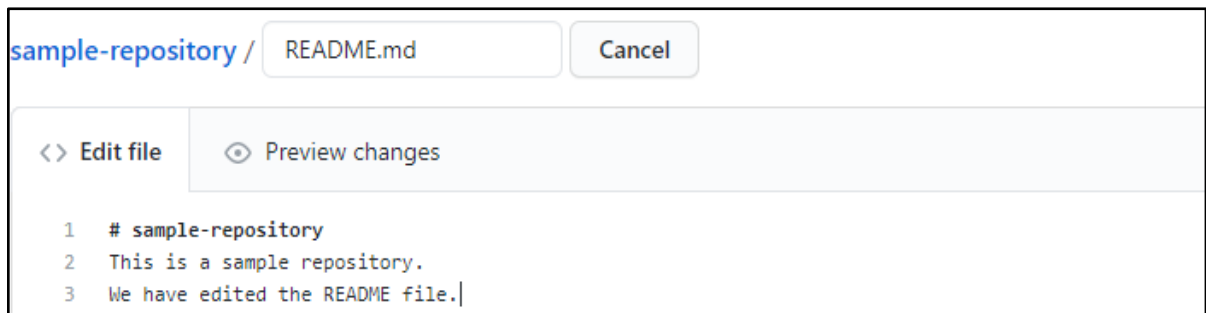
Create repository

Step 2: Edit the *README* file

2.1 Click on the **Edit** button to edit the *README* file.



2.2 Add some text in the README file (Example: *We have edited the README file.*)



2.3 Type a commit message to describe the changes made in the file and then click on **Commit changes**

Commit changes

Initial commit

Add an optional extended description...

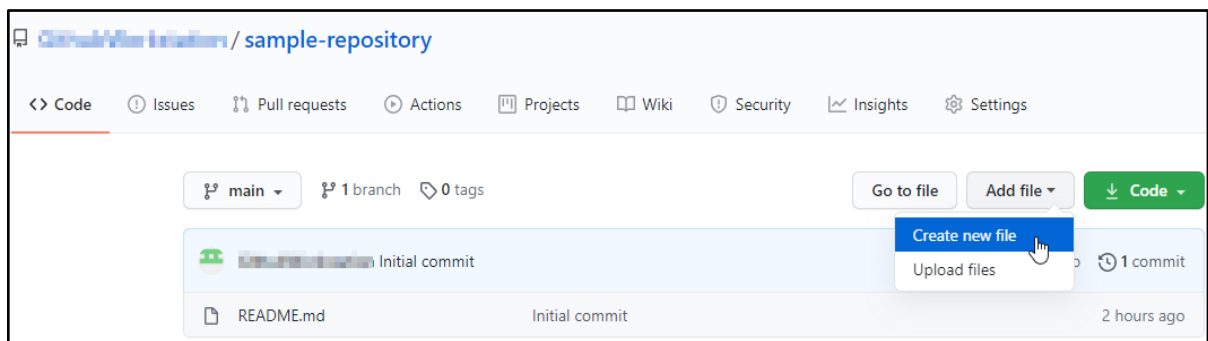
☒ Commit directly to the `main` branch.
 ☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel

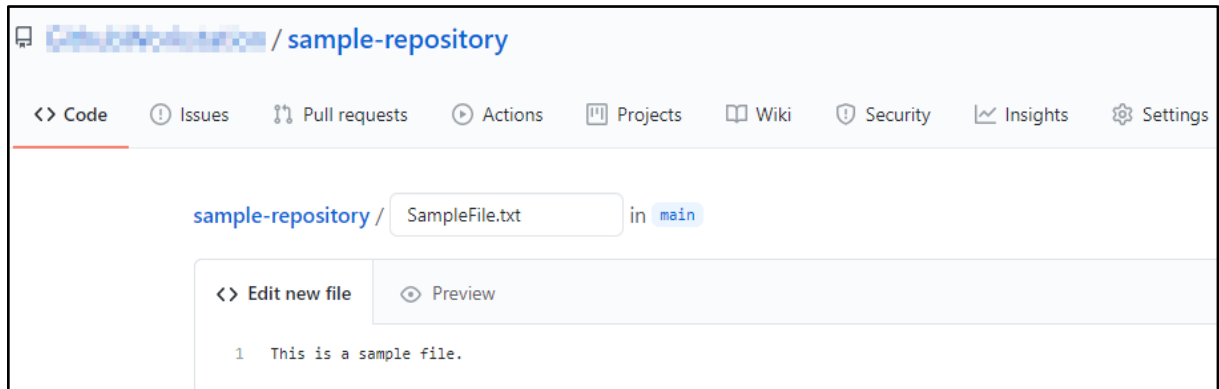
Step 3: Create a file in the repository

3.1 Go to your Github repository and to add a file to the repository, click on **Add file**, and then select **Create new file**

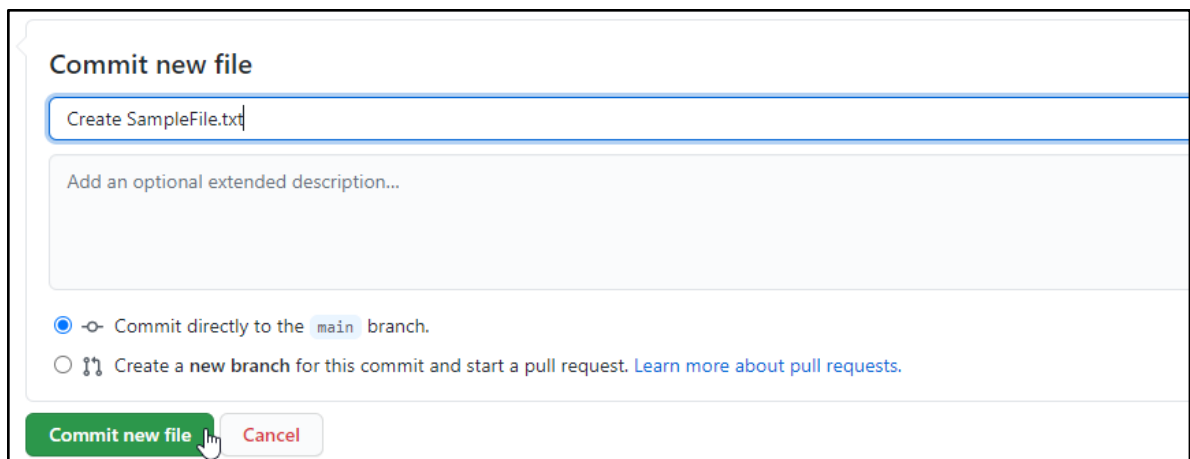


3.2 Enter the filename as **SampleFile.txt**, and add the following text in the **Edit new file** tab.

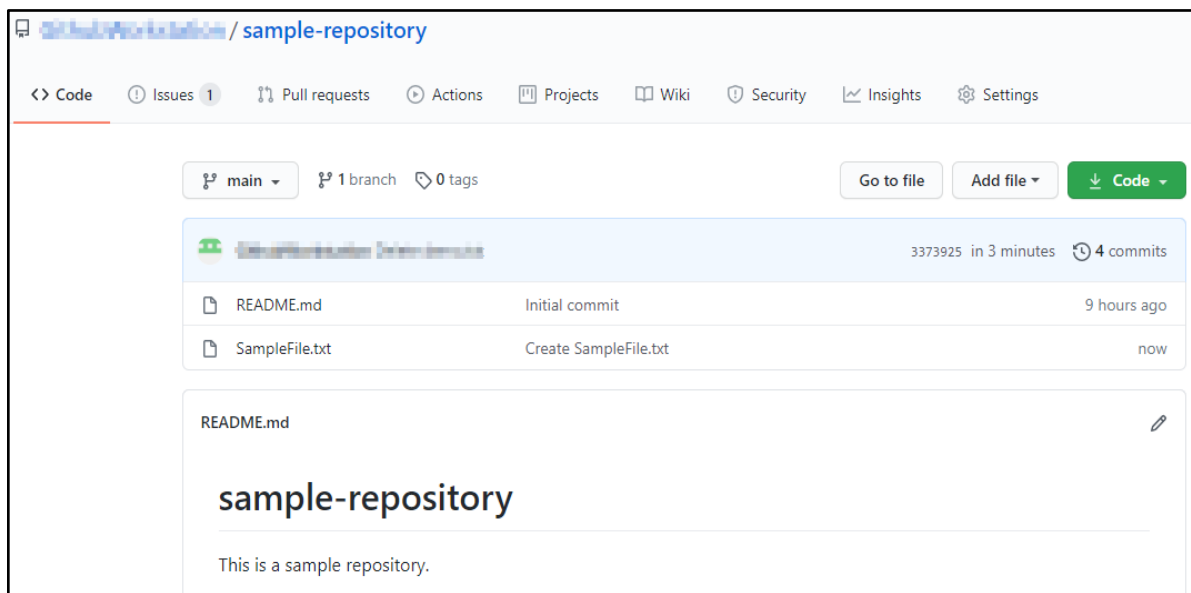
This is a sample file.



3.3 Next, scroll down to the **Commit New File** section. Write a Commit Message (**Example: Create SampleFile.txt**) and click on the **Commit New File** button



3.4 Check the newly added file with the commit message

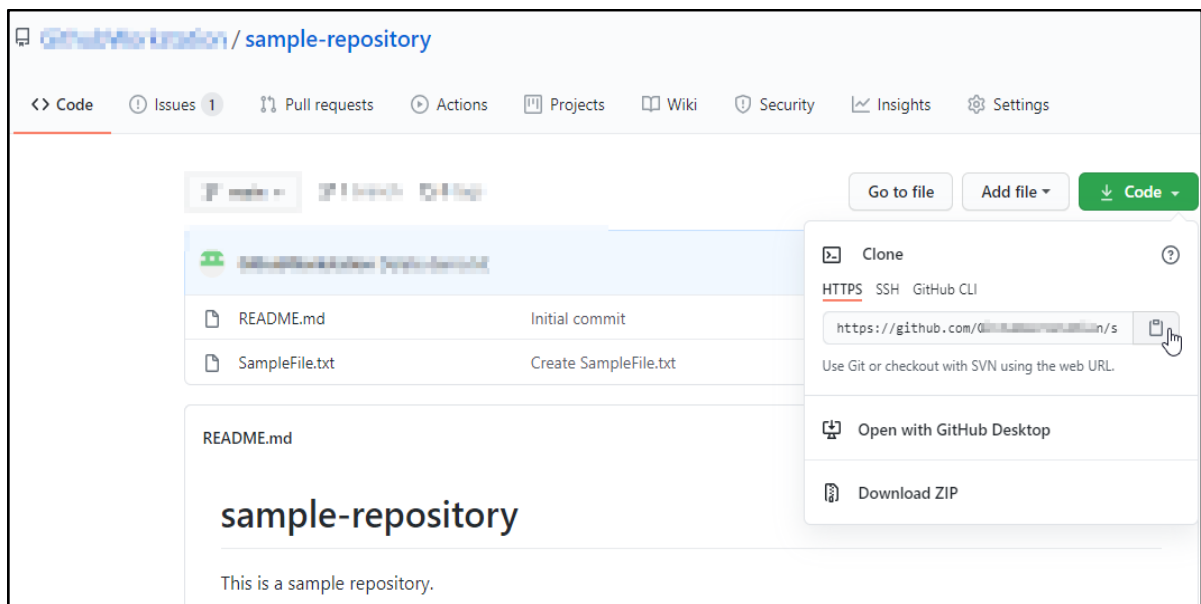


Step 4: Clone a GitHub repository

4.1 Open the browser in your lab, go to **github.com**, and login to your account

4.2 Open the **sample-repository** repo, and click on the **Code** button.

4.3 Click on the icon as shown in the following image to copy the **url** provided under **HTTPS**.



4.4 Open the **Terminal** tab on your lab, and use the following command to clone the repository:

git clone URL

Note: Replace the URL with the copied URL from the repository.

```
manikumsimpli@ip-172-31-71-23:~$ git clone https://github.com/GithubWorkstation/sample-repository.git
Cloning into 'sample-repository'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 15 (delta 1), reused 15 (delta 1), pack-reused 0
Receiving objects: 100% (15/15), done.
Resolving deltas: 100% (1/1), done.
manikumsimpli@ip-172-31-71-23:~$
```

4.5 Use the following command to check the cloned repository:

ls

```
manikumsimpli@ip-172-31-71-23:~$ ls
Desktop  Downloads  New_Folder  Public  Videos  nagiosxi  test.txt  xampp-cli-master
Documents Music     Pictures    Templates master.zip sample-repository thinclient_drives xi-5.8.4.tar.gz
manikumsimpli@ip-172-31-71-23:~$
```

4.6 Navigate to the **sample-repository**, and check the files inside the repository.

cd sample-repository

ls

```
manikumsimpli@ip-172-31-71-23:~$ cd sample-repository
manikumsimpli@ip-172-31-71-23:~/sample-repository$ ls
Merging  README.md  demo.txt
manikumsimpli@ip-172-31-71-23:~/sample-repository$
```