

Lesson 4 Demo 2

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

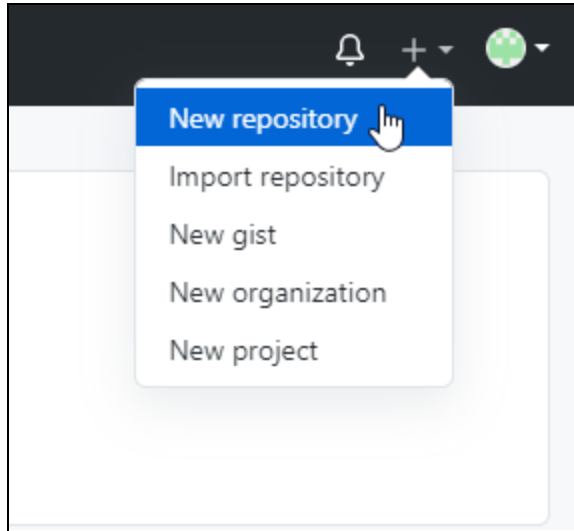
Steps to be followed:

1. Create a new Github repository
2. Edit the README file
3. Upload a file to 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.

1.6 Click on the **Create Repository** button.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *

Repository name *

Great repository names are short and simple. Your new repository will be created as sample-repository. s-doodle?

Description (optional)

☒



Public

Anyone on the internet can see this repository. You choose who can commit.

☐



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒

Add a README file

This is where you can write a long description for your project. [Learn more.](#)

☐


Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

☐

Choose a license

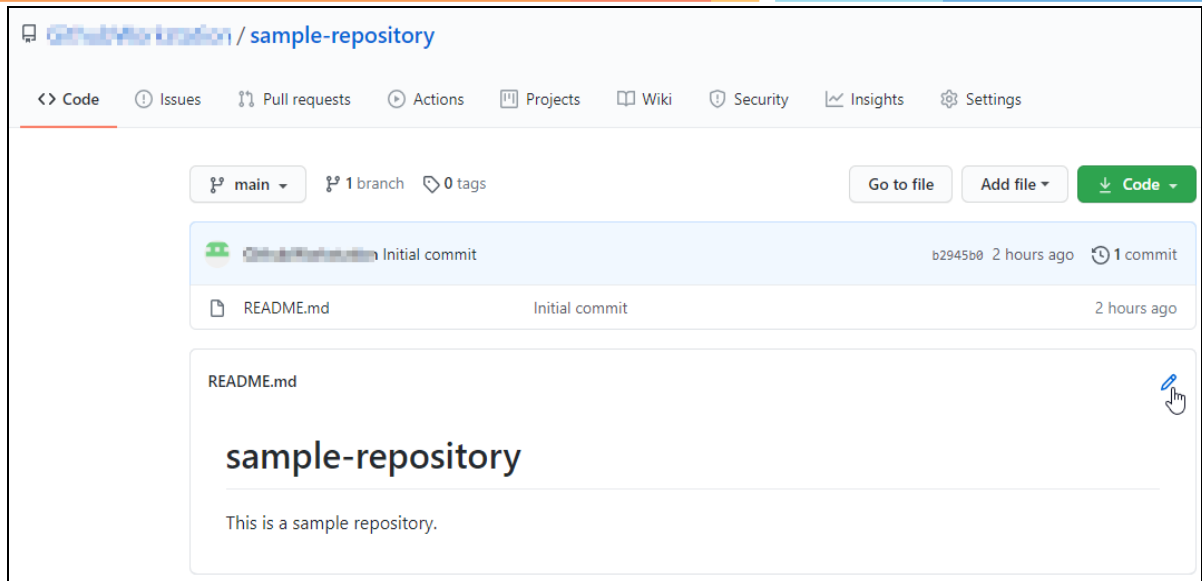
A license tells others what they can and can't do with your code. [Learn more.](#)

This will set  main as the default branch. Change the default name in your [settings](#).

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...

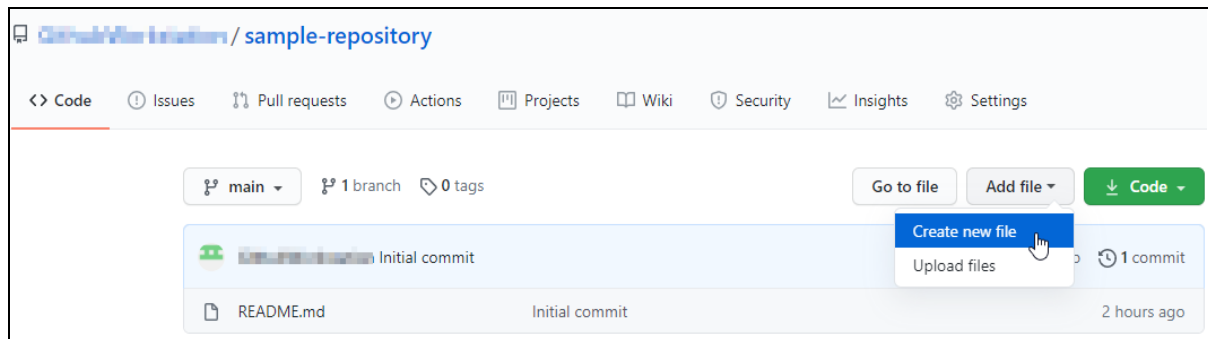
☒ Commit directly to the `main` branch.
 ☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel

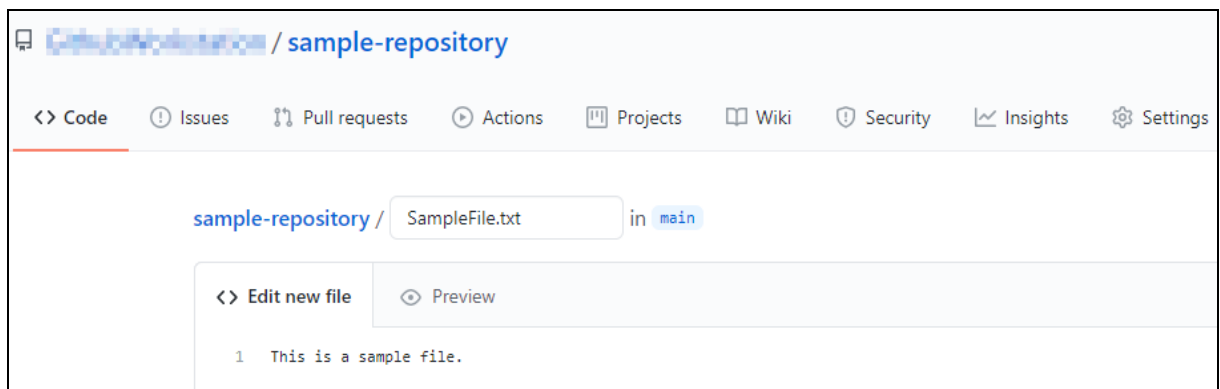
Step 3: Upload a file to the repository

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

Commit new file

Create SampleFile.txt

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 new file

Cancel

3.4 Check the newly added file with the commit message

sample-repository

<> Code

Issues 1

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

main 1 branch 0 tags

Go to file

Add file

Code

3373925 in 3 minutes 4 commits

| | | |
|----------------|-----------------------|-------------|
| README.md | Initial commit | 9 hours ago |
| SampleFile.txt | Create SampleFile.txt | now |

README.md

sample-repository

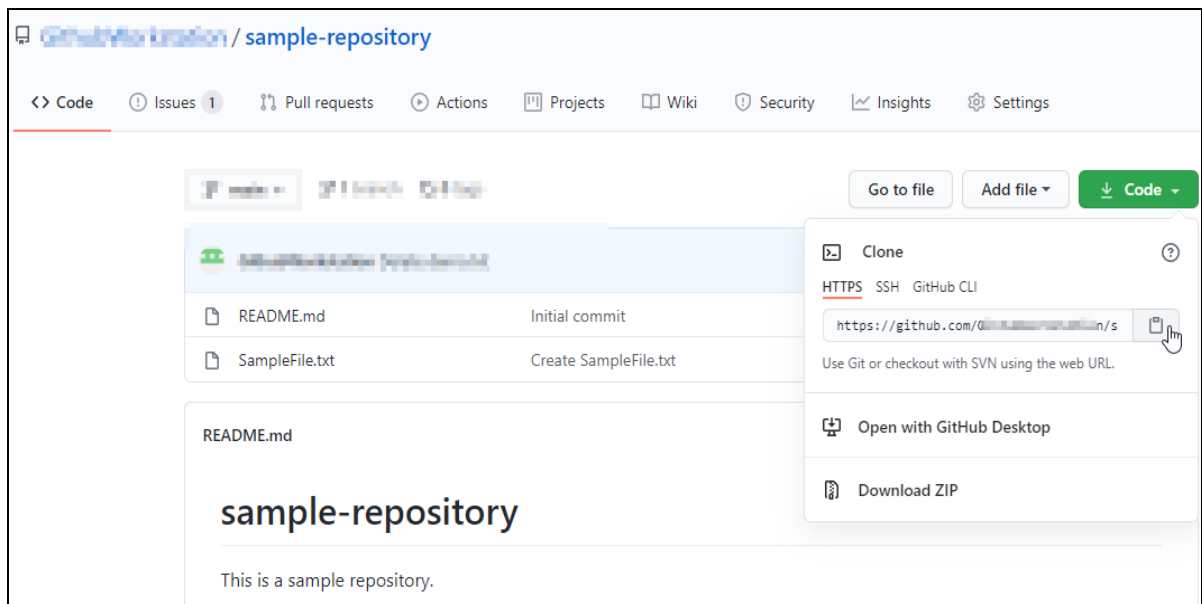
This is a sample repository.

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.

```
asmitaraysimpli@asmitaraysimpli:~$ git clone https://github.com/Asmita248/sample-repository.git
Cloning into 'sample-repository'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (9/9), done.
Checking connectivity... done.
```

4.5 Use the following command to check the cloned repository:

ls

```
asmitaraysimpli@asmitaraysimpli:~$ ls
Desktop  samplerepository  sample-repository  thinclient_drives
asmitaraysimpli@asmitaraysimpli:~$
```

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

cd sample-repository

ls

```
asmitaraysimpli@asmitaraysimpli:~$ cd sample-repository
asmitaraysimpli@asmitaraysimpli:~/sample-repository$ ls
README.md  SampleFile.txt
asmitaraysimpli@asmitaraysimpli:~/sample-repository$
```