

## Lesson 02 Demo 03

### Push file to GitHub Repository

**Objective:** To push file to GitHub Repository

**Tools required:** Git

Steps to be followed:

1. Create a GitHub repository
2. Create a repository on the local machine
3. Push the changes from the local repository to GitHub
4. Check the status of the local and remote repository

#### Step 1: Create a GitHub repository

1.1 Go to **github.com**, and log in to your account.

1.2 Click on the **New** button to create a new repository, and enter a repository name and click on **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 descriptive. Your new repository will be created as **my-new-project**. [psychic-invention?](#)

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.](#)

Create repository

## Step 2: Create a repository on the local machine

2.1 In the terminal, execute the following commands to create and initialize a Git repository

```
mkdir createnewproject
```

```
cd createnewproject
```

```
echo "# create new file for my project" >> README.md
```

```
git init
```

```
git add README.md
```

```
git commit -m "first commit"
```

```
git branch -M main
```

```
manikumarsimpli@ip-172-31-71-23:~$ mkdir createnewproject
manikumarsimpli@ip-172-31-71-23:~$ cd createnewproject
manikumarsimpli@ip-172-31-71-23:~/createnewproject$ echo "# create new file for my project" >> README.md
manikumarsimpli@ip-172-31-71-23:~/createnewproject$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/manikumarsimpli/createnewproject/.git/
manikumarsimpli@ip-172-31-71-23:~/createnewproject$
```

```
manikumarsimpli@ip-172-31-71-23:~/createnewproject$ git add README.md
manikumarsimpli@ip-172-31-71-23:~/createnewproject$ git commit -m "first commit"
[master (root-commit) 016a159] first commit
Committer: manikumarsimpli <manikumarsimpli@ip-172-31-71-23.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 README.md
manikumarsimpli@ip-172-31-71-23:~/createnewproject$ git branch -M main
manikumarsimpli@ip-172-31-71-23:~/createnewproject$
```

## Step 3: Push the changes in the local repository to GitHub

3.1 Open the **Terminal** on the local machine, and use the following command to add a remote repository:

```
git remote add origin <Your HTTPS_URL>
```

3.2 Use the following command to push the changes to the remote repository:

```
git push -u origin main
```

```

sim@ip-172-31-71-23:~/createnewproject$ git remote add origin https://github.com/GithubWorkstation/my-new-project.git
sim@ip-172-31-71-23:~/createnewproject$ git push -u origin main
Username for 'https://github.com': GithubWorkstation
Password for 'https://GithubWorkstation@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 258 bytes | 258.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/GithubWorkstation/my-new-project.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
sim@ip-172-31-71-23:~/createnewproject$

```

## Step 4: Check the status of the local and remote repository

4.1 Run the following command to check the status of the local repository

***git status***

```

sim@ip-172-31-71-23:~/createnewproject$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
sim@ip-172-31-71-23:~/createnewproject$

```

4.2 Go to **github.com**, and check the remote repository

The screenshot shows the GitHub interface for a repository named 'my-new-project'. At the top, there are buttons for 'Unwatch', 'Star' (0), and 'Fork' (0). Below this is a navigation bar with links for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The main content area has a light blue background and contains two sections:

- Quick setup — if you've done this kind of thing before**: This section offers two options: 'HTTPS' and 'SSH'. The 'HTTPS' option is selected, showing the URL 'https://github.com/Simplilearn-Edu/my-new-project.git'. Below this, it says 'Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).' There is a copy icon to the right of the URL.
- ...or create a new repository on the command line**: This section provides a list of commands to initialize a new repository locally:
 

```

echo "# my-new-project" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/Simplilearn-Edu/my-new-project.git
      
```

 There is a copy icon to the right of the commands.