

DevOps on Cloud

PCS-651

Lab Assignments

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SECTION: CCIS

CLASS ROLL NUMBER: 05

Lab Assignment -01 (28th February 2022)

AIM: Getting Started with Git and GitHub

Step 01: Installing Git for Windows

Install Git in Windows from the link: <https://gitforwindows.org/>.



Step 02: Getting started with Git Bash

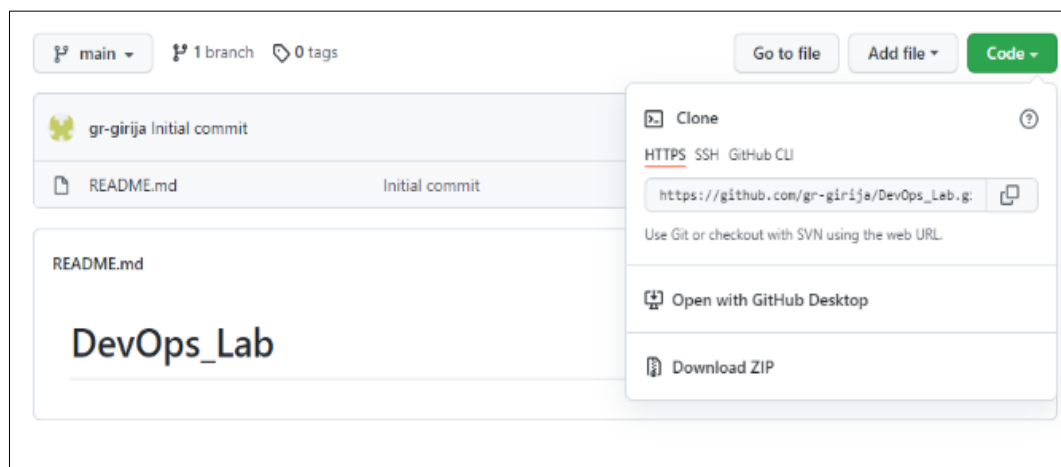
Create a folder in your PC and launch Git Bash by right-clicking and choosing the option “Git Bash Here”. Once done, execute “git init” command to initialize empty git repository.



Step 03: Syncing Repository

Create a new repository at GitHub and then clone it.

The screenshot shows the GitHub 'Create a new repository' page. At the top, it says 'Create a new repository' and 'A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)'. Below this, there are two input fields: 'Owner' with a dropdown menu showing 'gr-girija' and 'Repository name' with a text input 'DevOps_Lab' and a green checkmark. A note says 'Great repository names are short and memorable. Need inspiration? How about [studious-robot](#)?'. There is a 'Description (optional)' text area. Below that, there are two radio buttons: 'Public' (selected) and 'Private'. The 'Public' option has a subtext: 'Anyone on the internet can see this repository. You choose who can commit.' The 'Private' option has a subtext: 'You choose who can see and commit to this repository.' Below the radio buttons, there is a section 'Initialize this repository with:' with a subtext: 'Skip this step if you're importing an existing repository.' There are three checkboxes: 'Add a README file' (checked), 'Add .gitignore' (unchecked), and 'Choose a license' (unchecked). Each checkbox has a subtext. At the bottom, it says 'This will set `main` as the default branch. Change the default name in your [settings](#).' and a green 'Create repository' button.



Step 04: Linking Remote Repository

Use “git remote add” and “git pull origin master”.

The first screenshot shows a terminal window with the following commands and output:

```
MINGW64/~/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo
This Pc@AabraKaDaabra MINGW64 /F/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo
$ git init
Initialized empty Git repository in F:/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo/.git/
This Pc@AabraKaDaabra MINGW64 /F/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo (master)
$ git remote add origin https://github.com/gr-girija/DevOps_Lab.git
```

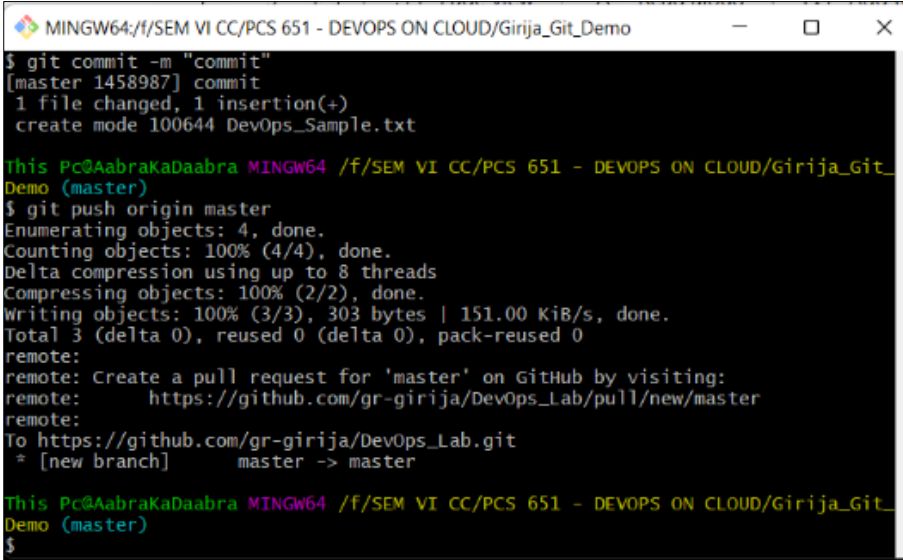

The second screenshot shows the same terminal window with the following commands and output:

```
This Pc@AabraKaDaabra MINGW64 /F/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo (master)
$ git pull origin master
fatal: couldn't find remote ref master
This Pc@AabraKaDaabra MINGW64 /F/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo (master)
$ git pull origin main
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 596 bytes | 2.00 KiB/s, done.
From https://github.com/gr-girija/DevOps_Lab
* branch      main      -> FETCH_HEAD
* [new branch] main      -> origin/main
This Pc@AabraKaDaabra MINGW64 /F/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo (master)
$
```

Step 05: Committing changes to the repository

Create a sample text file and then execute the following commands.

- git status
- git add sample.txt
- git commit -m "commit"
- git push origin master



```
MINGW64:/f/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo
$ git commit -m "commit"
[master 1458987] commit
1 file changed, 1 insertion(+)
create mode 100644 DevOps_Sample.txt

This Pc@AabraKaDaabra MINGW64 /f/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo (master)
$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 303 bytes | 151.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/gr-girija/DevOps_Lab/pull/new/master
remote:
To https://github.com/gr-girija/DevOps_Lab.git
 * [new branch]      master -> master

This Pc@AabraKaDaabra MINGW64 /f/SEM VI CC/PCS 651 - DEVOPS ON CLOUD/Girija_Git_Demo (master)
$
```