

Module 6: Git Server Administration

Demo 3:

Problem Statement: Demonstrate git hub access to other collaborators.

This section will guide you to:

- Set up access to git hub collaborators on remote repository.

Solution:

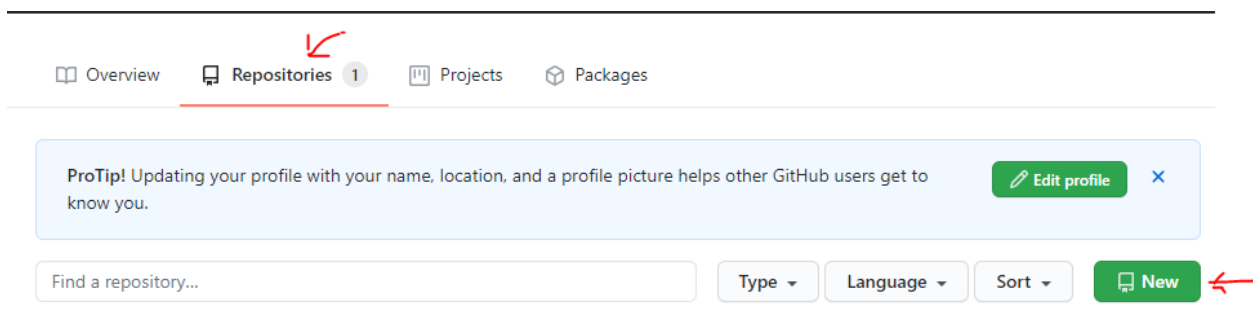
GitHub is the distributed version control system. The term distributed signifies it is available to several developers or collaborators working on same project.

Since software development life cycle (SDLC) requires in high demand to follow the agile methodology so developers are required to work on minimum viable product provisioning. The concept of forking branches and work on forked branch will help developers to work on particular modules of whole project.

For start working in distributed fashion, all collaborators required access to the centralized remote repository which could be present on [GitHub server](#) or enterprise level GitLab.

Follow below steps to manage the access of all the collaborators to remote repository.


- 1) Create a remote repository on GitHub account by clicking on repositories button and then click on new option.



- 2) It is required to provide all the details needed to create the fresh repository. Here user need to select repository accessibility as *private* since for public repositories anyone can access and no need to provide access permission.

Source Code Management using GIT


Owner * Repository name *


 zeallearn ▾ / demo ✓

Great repository names are short and memorable. Need inspiration? How about **redesigned-octo-computing-machine**?

Description (optional)

giving access to collaborators

☐  **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

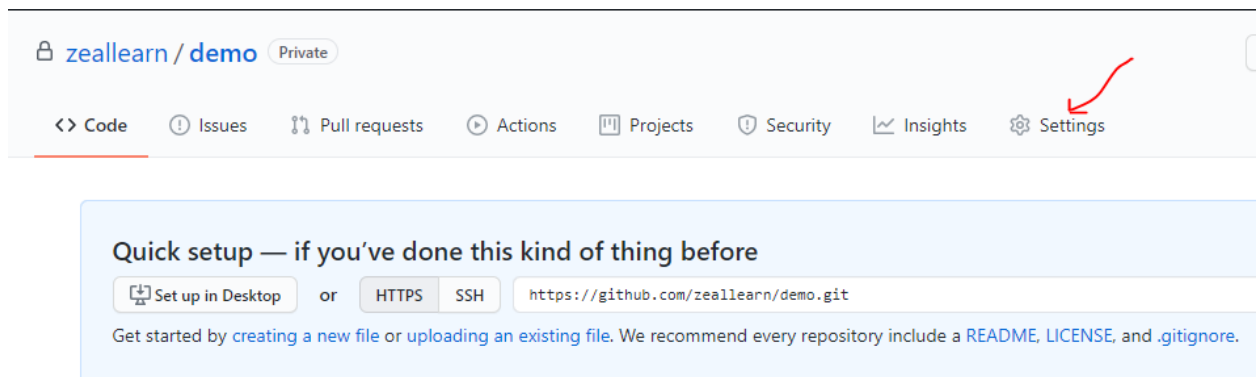
- 3) Now try to clone the repository on git client by using below command. Without access permission users will get the error “*remote: Repository not found.*” Even though remote repository is present.

Note: For accessing remote repositories username and password of GitHub account is required hence collaborators should have account created on GitHub.

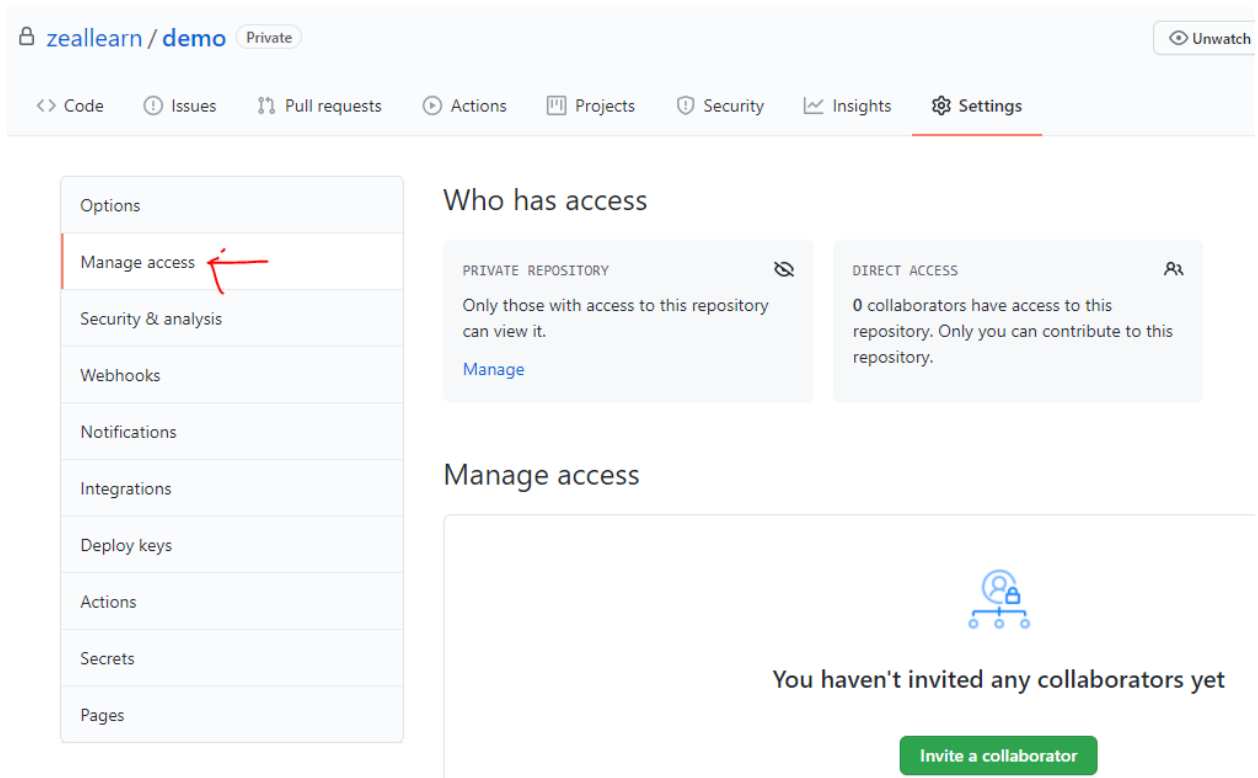
```
root@ip-172-31-31-59:/home/demo# git clone https://github.com/zeallearn/demo.git
Cloning into 'demo'...
Username for 'https://github.com': impetusideas
Password for 'https://impetusideas@github.com':
remote: Repository not found.
fatal: repository 'https://github.com/zeallearn/demo.git/' not found
root@ip-172-31-31-59:/home/demo#
```

- 4) To provide the access, go to settings options of the remote repository.

Source Code Management using GIT

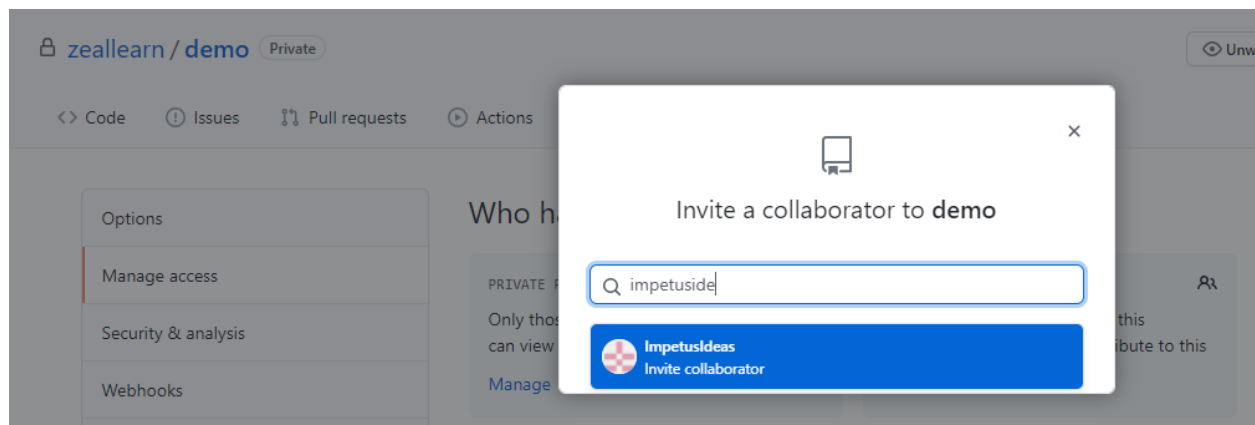


- 5) Click on *Manage access*, if no collaborator is invited, the screen will reflect the message “you haven’t invited any collaborators yet”.

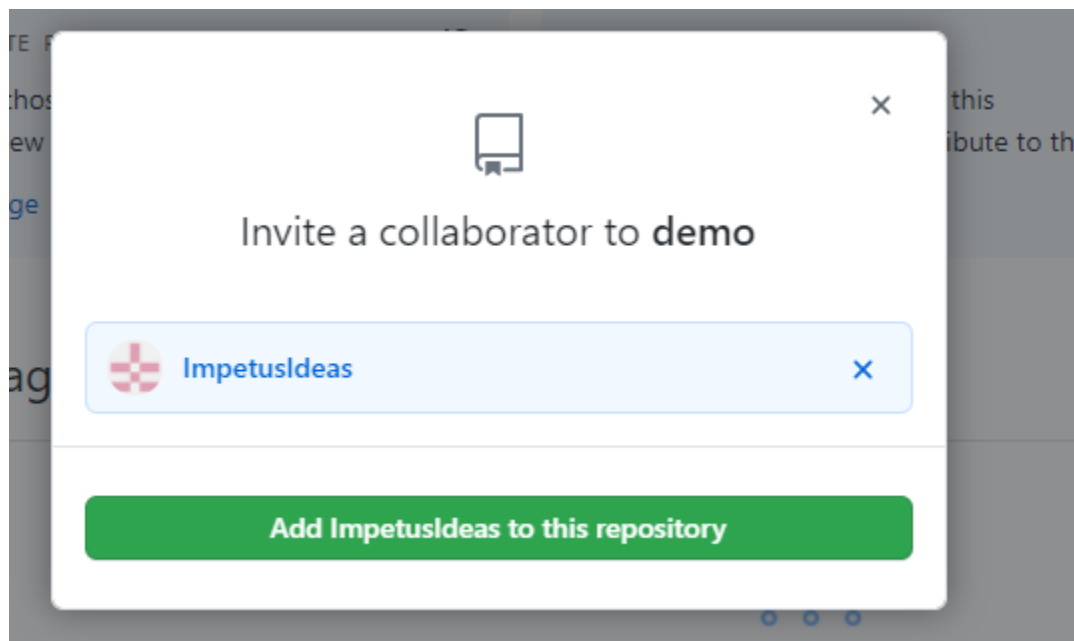


- 6) Click on “Invite a collaborator”. It will ask to enter username which is present on GitHub and searches the same.

Source Code Management using GIT



7) Once selected, add the user to the repository.






8) Once added, it will wait for the invited user to accept the invitation sent on the registered email id. Same way more users can be invited by clicking on “Invite a collaborator” button.

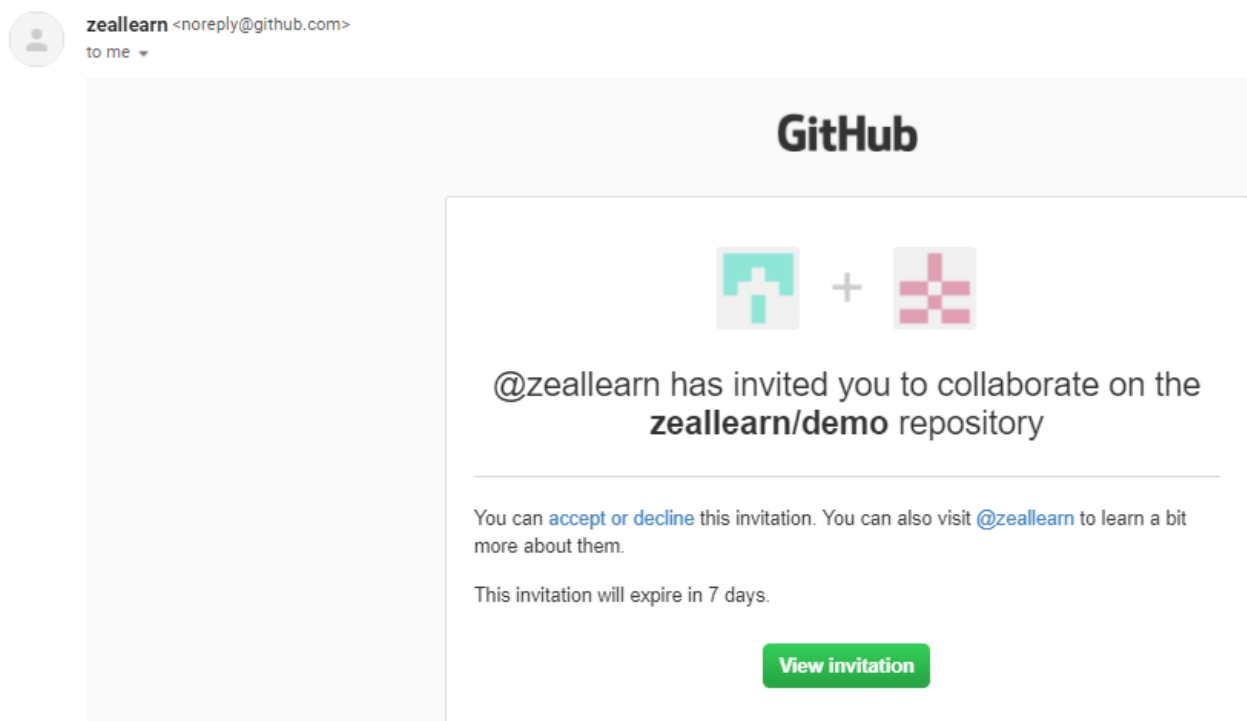
Source Code Management using GIT

Manage access

[Invite a collaborator](#)

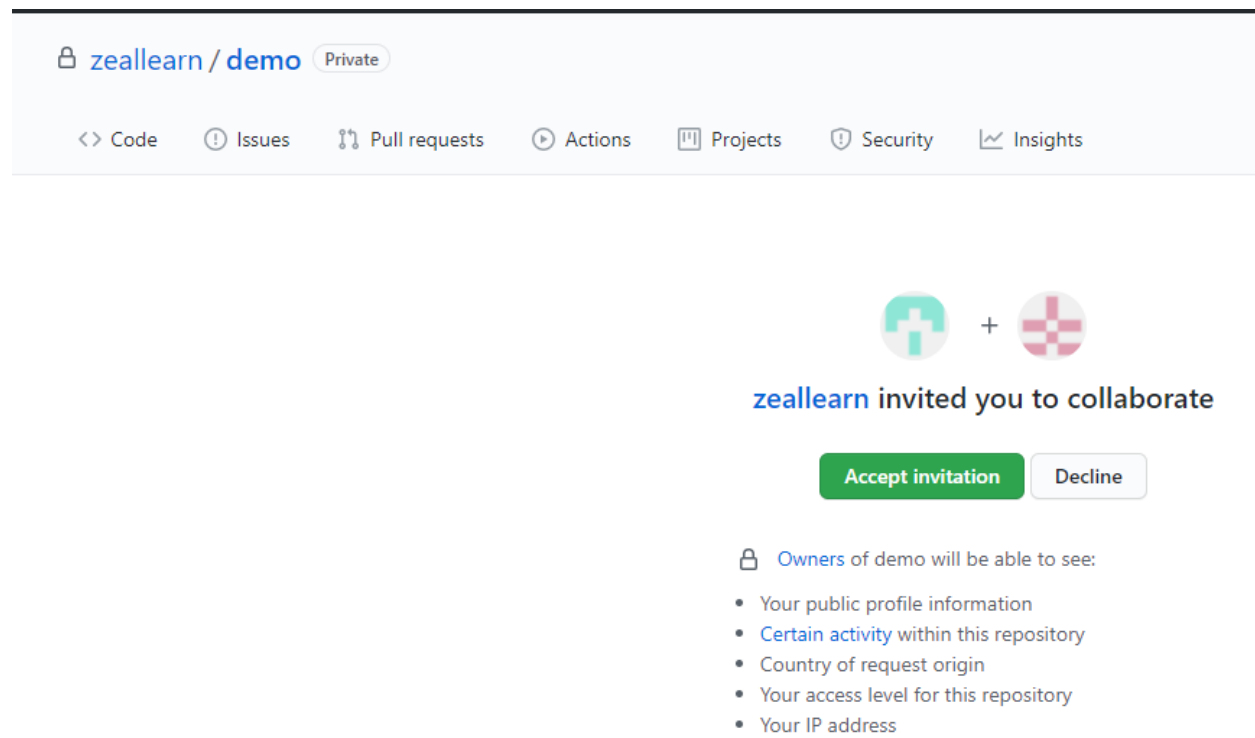
<input type="checkbox"/>	Select all	Type ▾
<input type="text" value="Find a collaborator..."/>		
<input type="checkbox"/>	 ImpetusIdeas Awaiting ImpetusIdeas's response	Pending Invite  

- 9) On registered email id user must click on the “view invitation” to accept or decline the invitation.

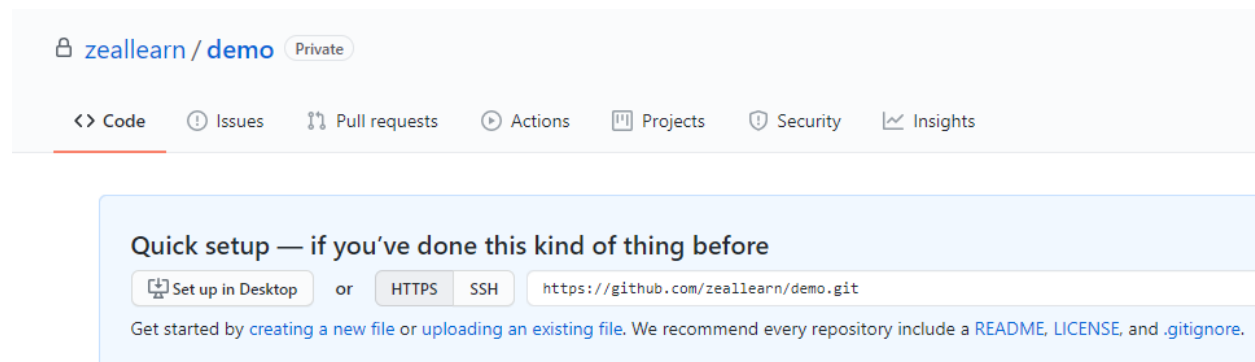


- 10) User will get the below screen to accept the invite on their GitHub account.

Source Code Management using GIT



- 11) Once accepted, the collaborator can see the *private* repository to their own GitHub account and clone the same on git client.



- 12) Try to clone the repository and this time it will work!!

```
root@ip-172-31-31-59:/home/ubuntu# cd /home/demo/
root@ip-172-31-31-59:/home/demo# git clone https://github.com/zeallearn/demo.git
Cloning into 'demo'...
Username for 'https://github.com': impetusideas
Password for 'https://impetusideas@github.com':
warning: You appear to have cloned an empty repository.
root@ip-172-31-31-59:/home/demo#
```