

Lesson 02 Demo 01

Configuring a Git Account with GitHub

Objective: To configure a Git account with GitHub for seamless code management and collaboration

Tools Required: Git

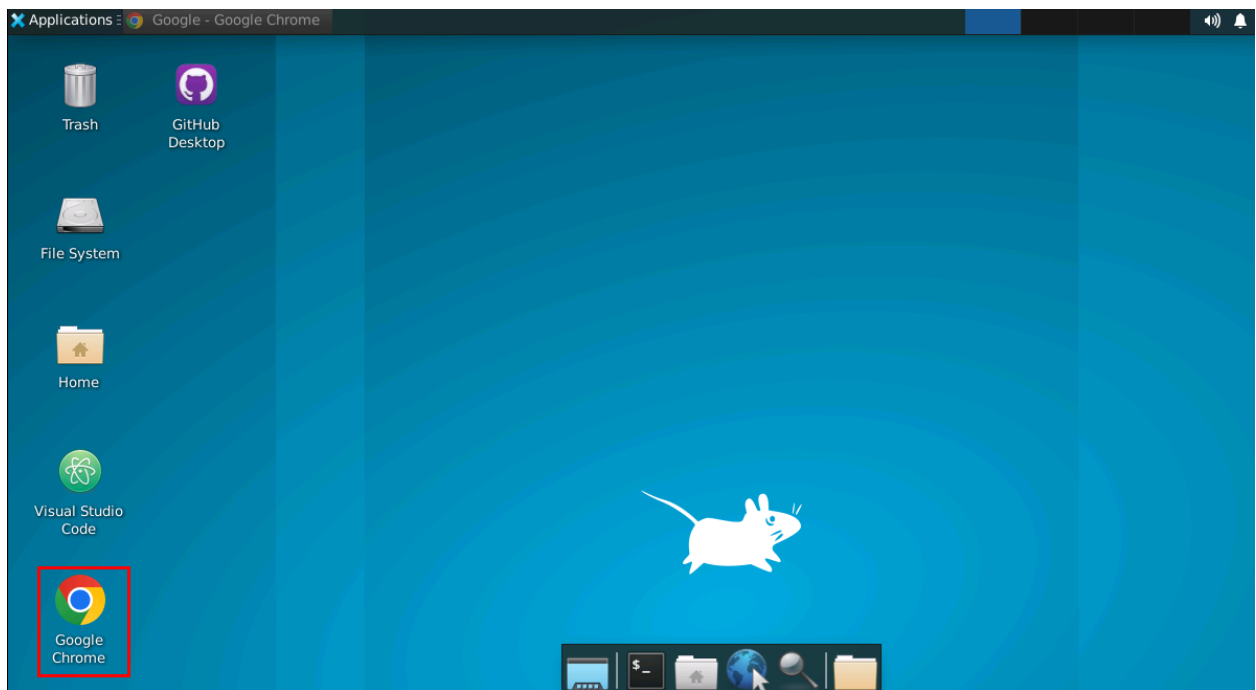
Prerequisites: None

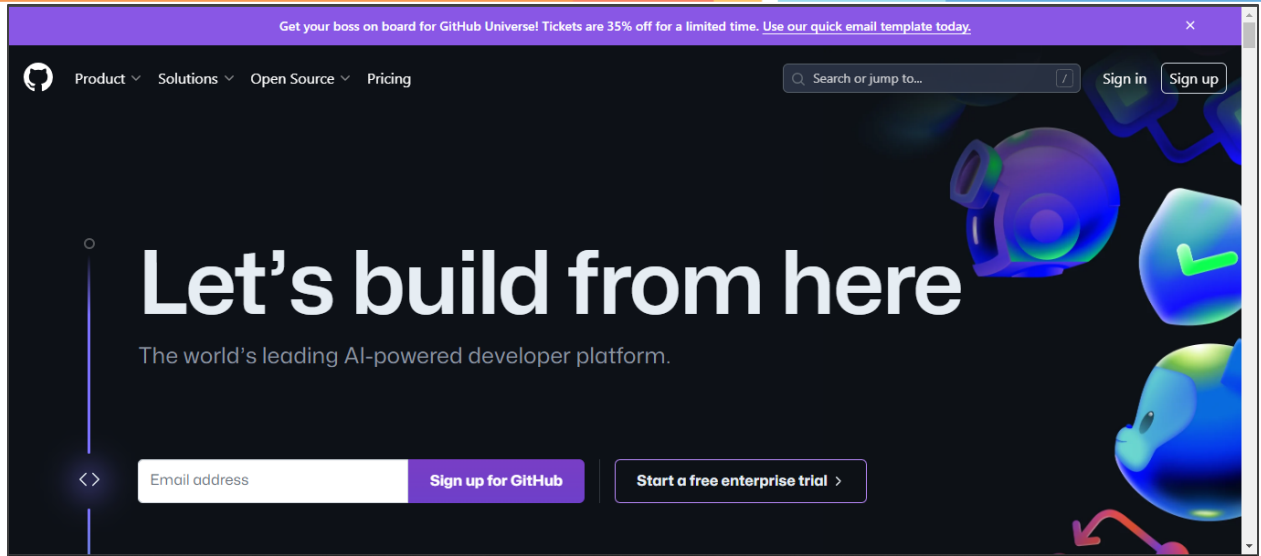
Steps to be followed:

1. Create a GitHub account
2. Configure a Git account with GitHub

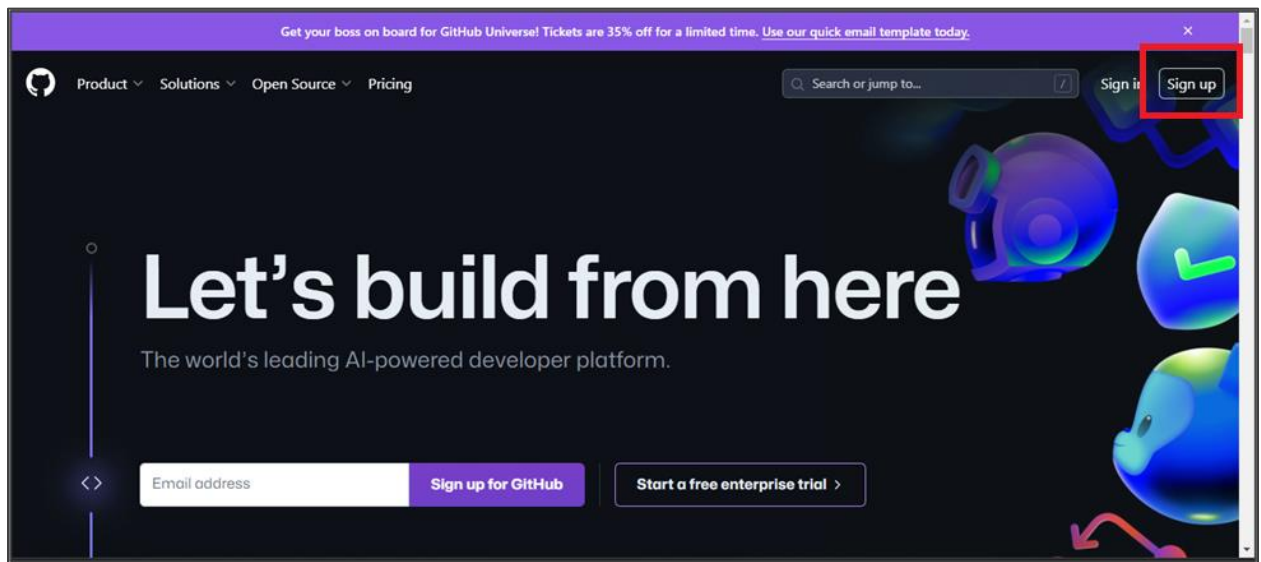
Step 1: Create a GitHub account

- 1.1 Open the browser in the lab and navigate to **github.com**

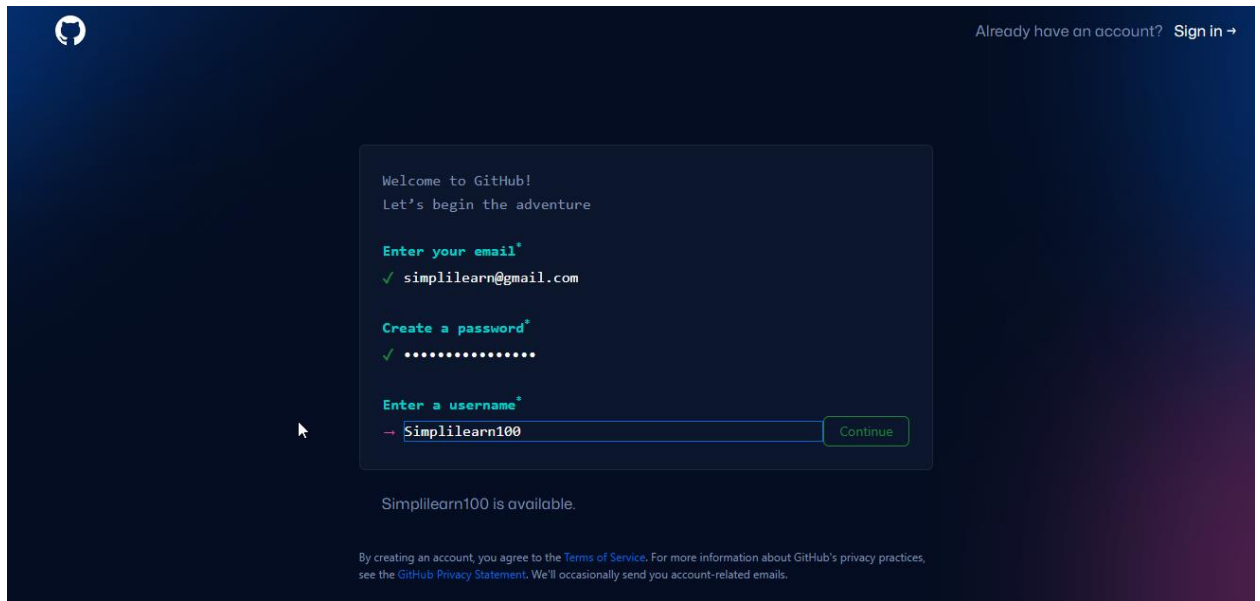




1.2 Click on the **Sign up** button to create a new account



1.3 Fill in the required information, including a username, email address, and password



GitHub logo

Already have an account? [Sign in](#) →

Welcome to GitHub!
Let's begin the adventure

Enter your email*
✓ simplilearn@gmail.com

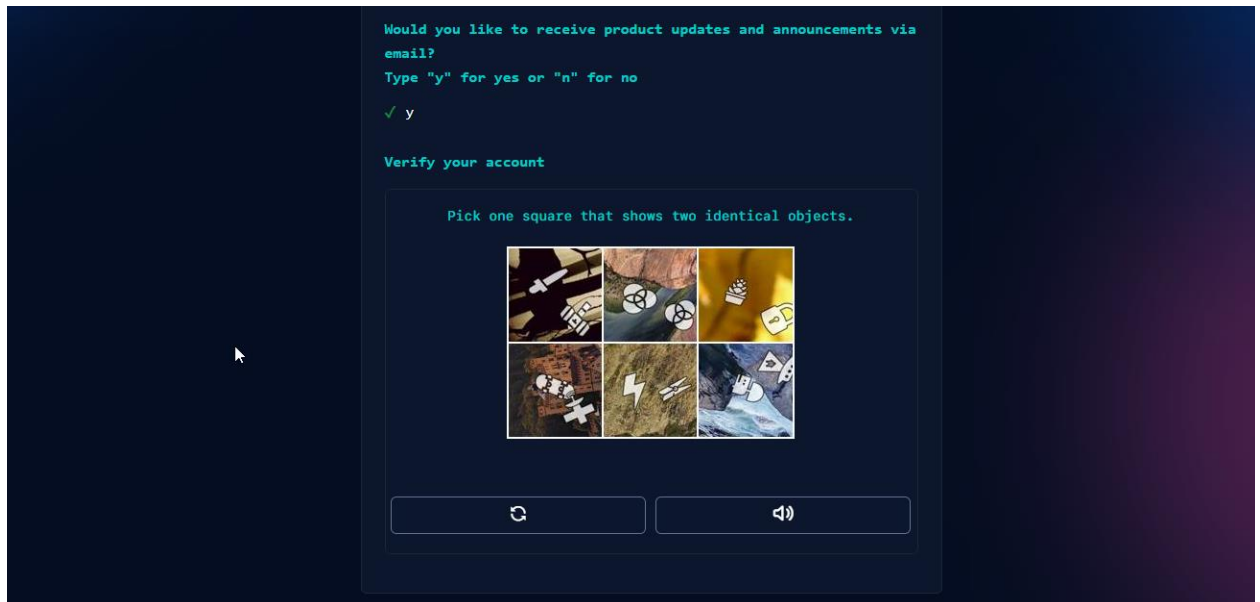
Create a password*
✓

Enter a username*
→ Simplilearn100 [Continue](#)

Simplilearn100 is available.

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.







1.4 Complete the CAPTCHA verification process if prompted



Would you like to receive product updates and announcements via email?
Type "y" for yes or "n" for no
✓ y

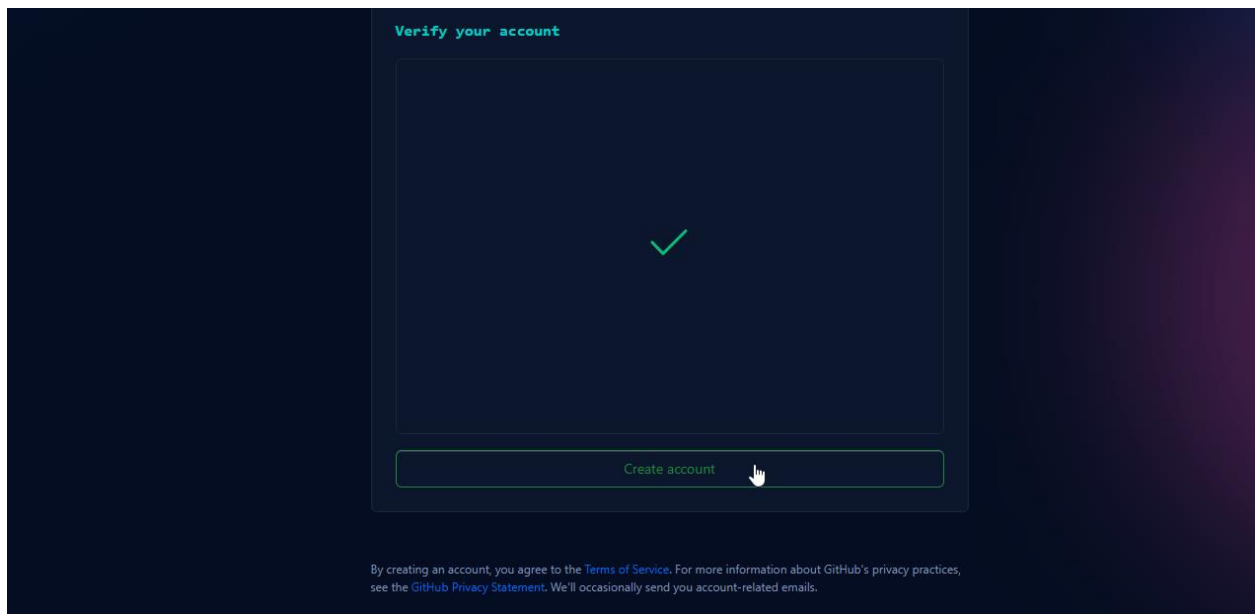
Verify your account

Pick one square that shows two identical objects.

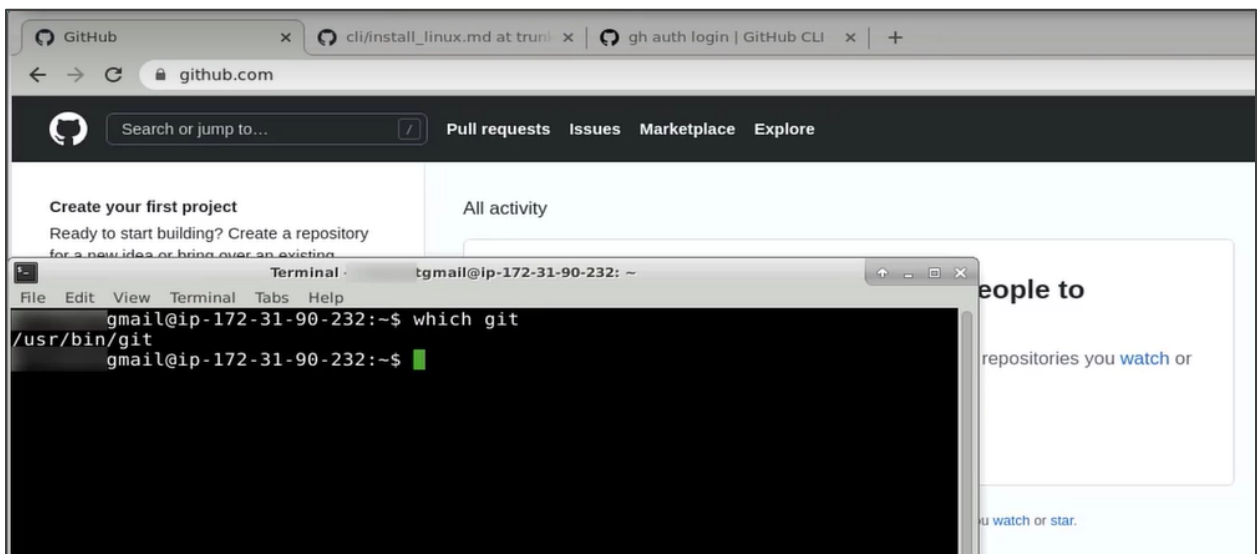
[Refresh](#) [Submit](#)

1.5 Once you have filled in all the required information, click on the **Create account** button



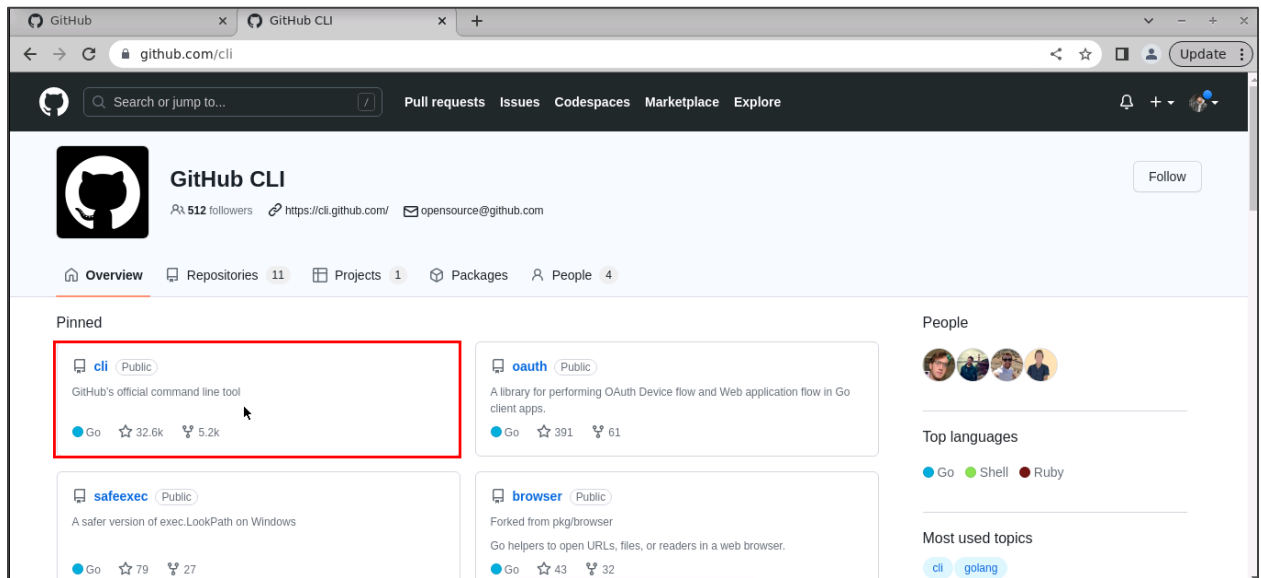
Step 2: Configure a Git account with GitHub

2.1 Open a terminal and check if Git is already installed by typing the following command:
which git

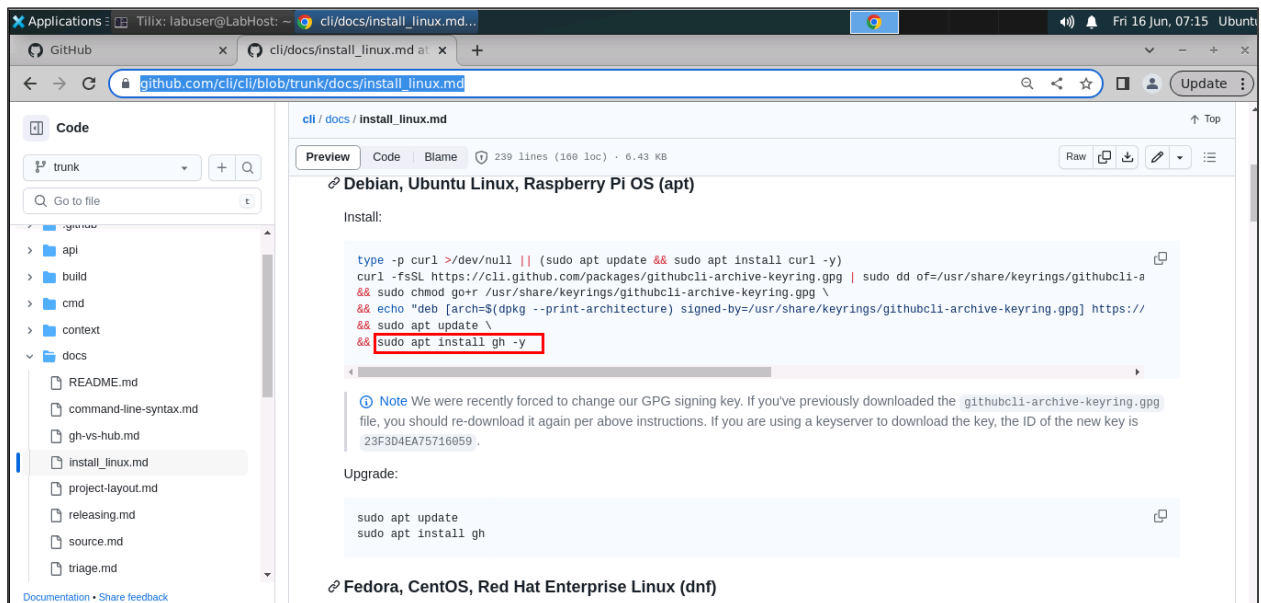


If Git is already installed, the command will display the path to the Git executable file.

2.2 Install the **GitHub CLI** by visiting the official source link at **github.com/cli**

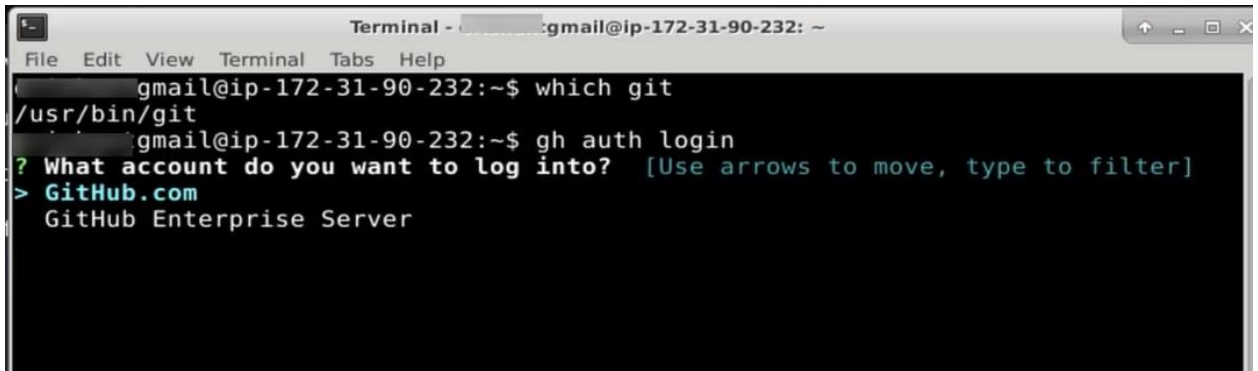


2.3 Follow the instructions specific to your operating system to install the GitHub CLI. For example, if you are using **Linux**, you can use the command **sudo apt install gh -y**



2.4 Once the GitHub CLI is installed, go back to the terminal window and type the following command to authenticate your GitHub account:

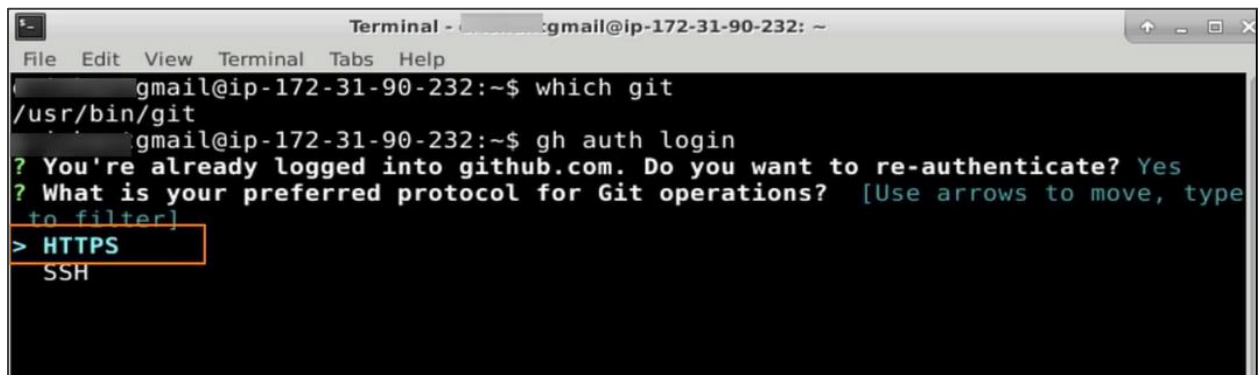
gh auth login

A terminal window titled "Terminal - [redacted]@ip-172-31-90-232: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows the following commands and output:

```
gmail@ip-172-31-90-232:~$ which git
/usr/bin/git
gmail@ip-172-31-90-232:~$ gh auth login
? What account do you want to log into? [Use arrows to move, type to filter]
> GitHub.com
  GitHub Enterprise Server
```

Follow the prompts provided by the GitHub CLI to complete the authentication process.

2.5 When asked to select the authentication method, choose **GitHub.com** and choose the authentication method you prefer, such as **HTTPS**

A terminal window titled "Terminal - [redacted]@ip-172-31-90-232: ~" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows the following commands and output:

```
gmail@ip-172-31-90-232:~$ which git
/usr/bin/git
gmail@ip-172-31-90-232:~$ gh auth login
? You're already logged into github.com. Do you want to re-authenticate? Yes
? What is your preferred protocol for Git operations? [Use arrows to move, type to filter]
> HTTPS
  SSH
```

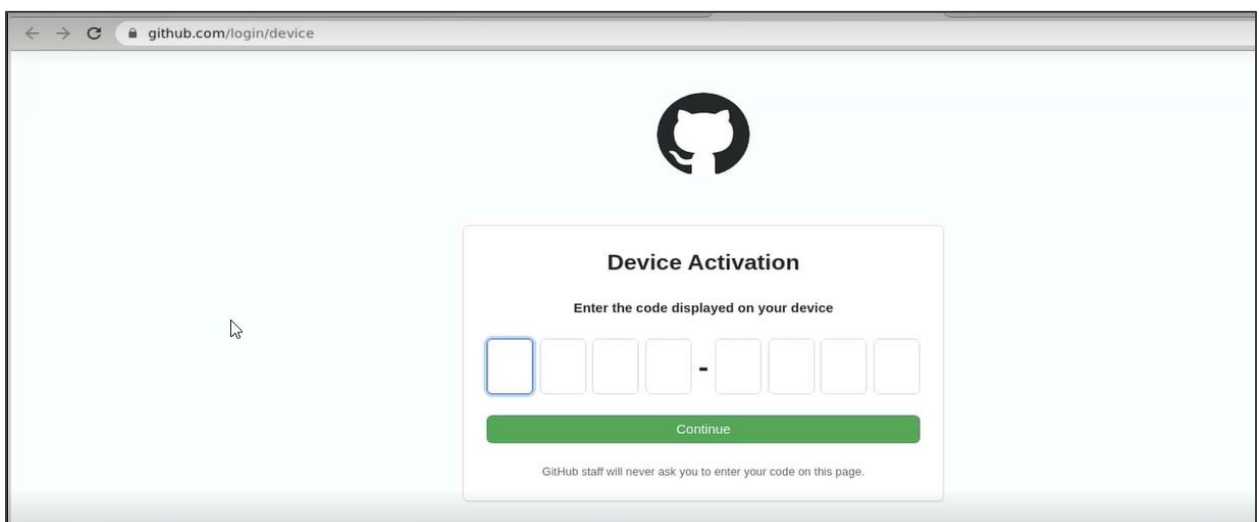
2.6 Select **Login with a web browser** as the authentication flow

```
Terminal - [redacted]@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
[redacted]@ip-172-31-90-232:~$ which git
/usr/bin/git
[redacted]@ip-172-31-90-232:~$ gh auth login
? You're already logged into github.com. Do you want to re-authenticate? Yes
? What is your preferred protocol for Git operations? HTTPS
? How would you like to authenticate GitHub CLI? [Use arrows to move, type to filter]
> Login with a web browser
  Paste an authentication token
```

2.7 Press **Enter** to open **github.com** in your default web browser

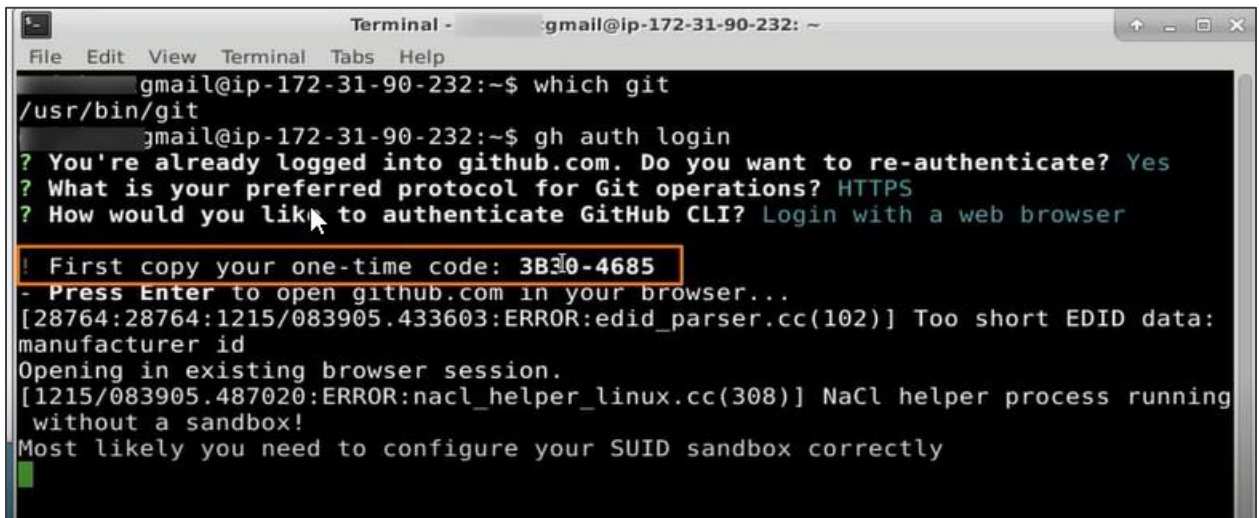
```
Terminal - [redacted]@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
[redacted]@ip-172-31-90-232:~$ which git
/usr/bin/git
[redacted]@ip-172-31-90-232:~$ gh auth login
? You're already logged into github.com. Do you want to re-authenticate? Yes
? What is your preferred protocol for Git operations? HTTPS
? How would you like to authenticate GitHub CLI? Login with a web browser

! First copy your one-time code: 3B30-4685
- Press Enter to open git@github.com in your browser... █
```



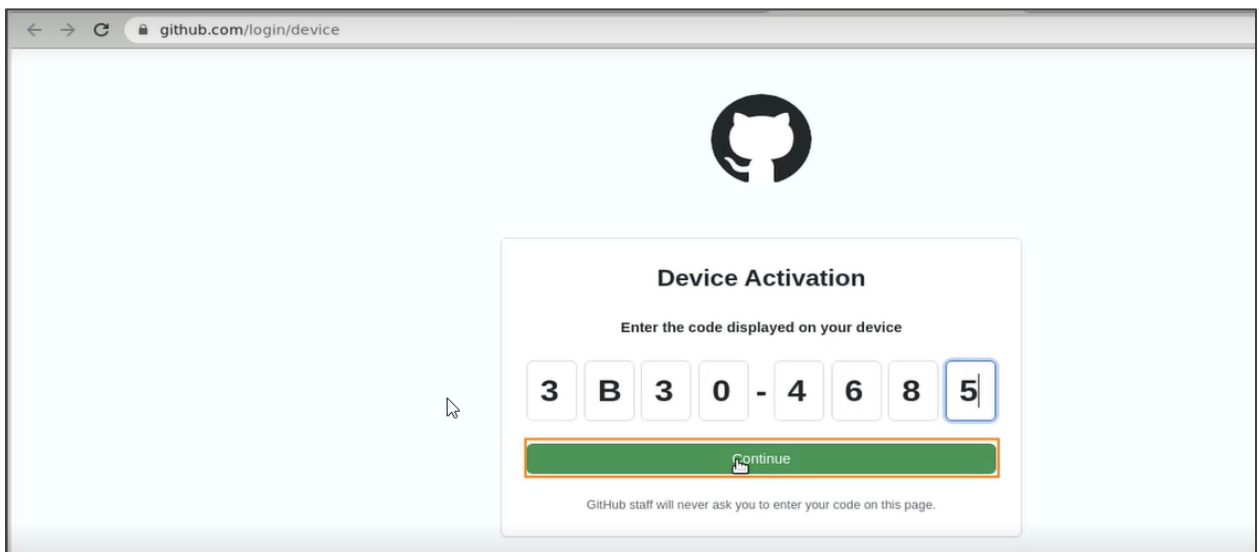
Enter the device activation code in the web browser upon being asked.

2.8 Go back to the terminal and copy the device activation code that is displayed

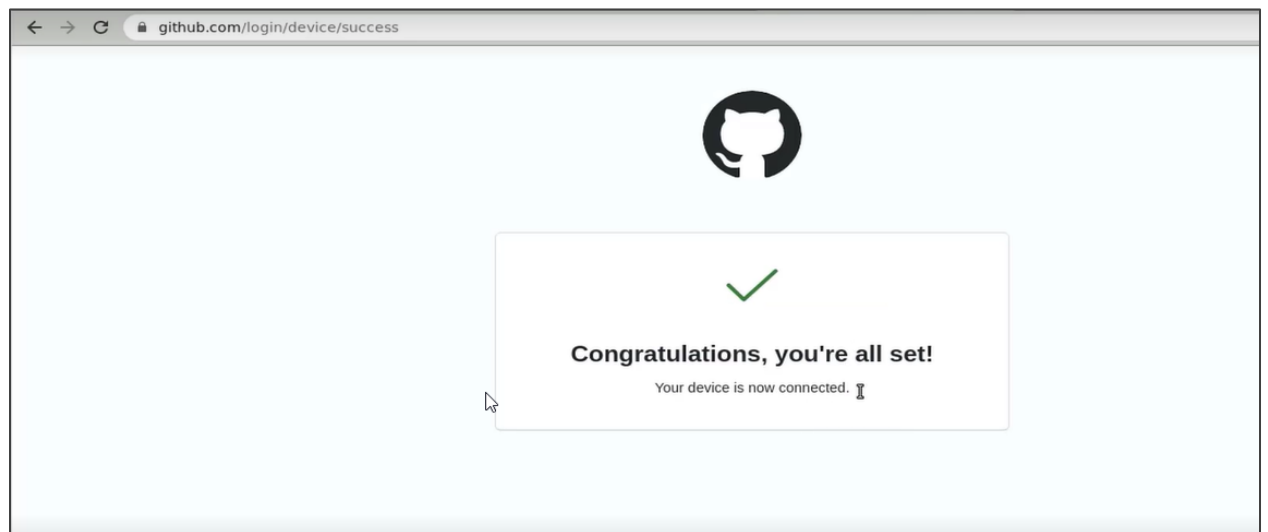
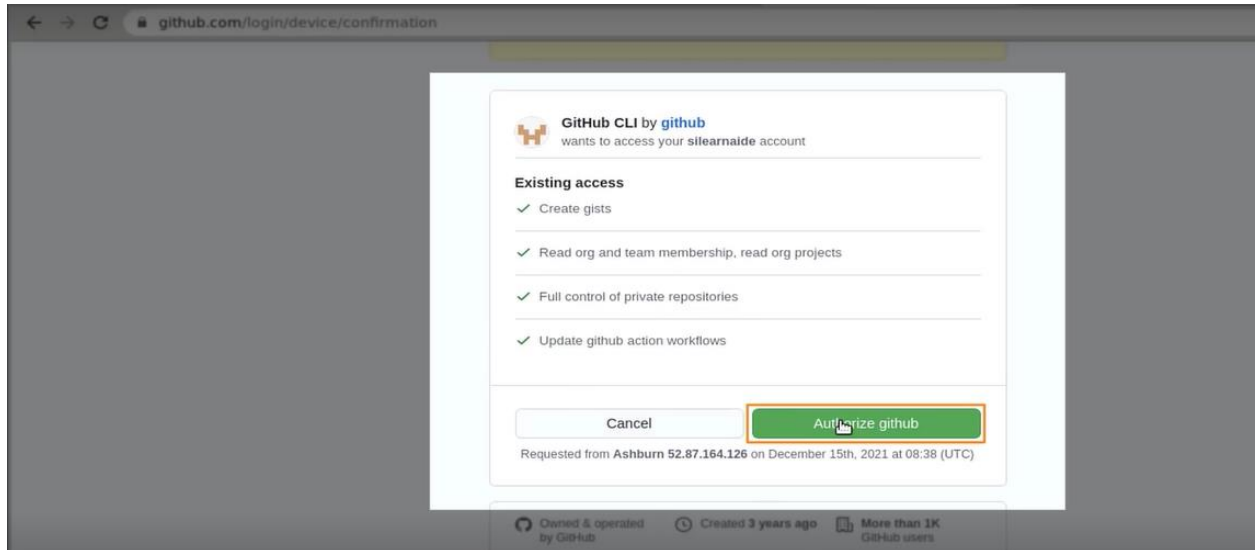


```
Terminal - gmail@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
gmail@ip-172-31-90-232:~$ which git
/usr/bin/git
gmail@ip-172-31-90-232:~$ gh auth login
? You're already logged into github.com. Do you want to re-authenticate? Yes
? What is your preferred protocol for Git operations? HTTPS
? How would you like to authenticate GitHub CLI? Login with a web browser
! First copy your one-time code: 3B30-4685
- Press Enter to open github.com in your browser...
[28764:28764:1215/083905.433603:ERROR:edid_parser.cc(102)] Too short EDID data:
manufacturer id
Opening in existing browser session.
[1215/083905.487020:ERROR:nacl_helper_linux.cc(308)] NaCl helper process running
without a sandbox!
Most likely you need to configure your SUID sandbox correctly
```

2.9 Paste the device activation code into the web browser and click on **Continue**

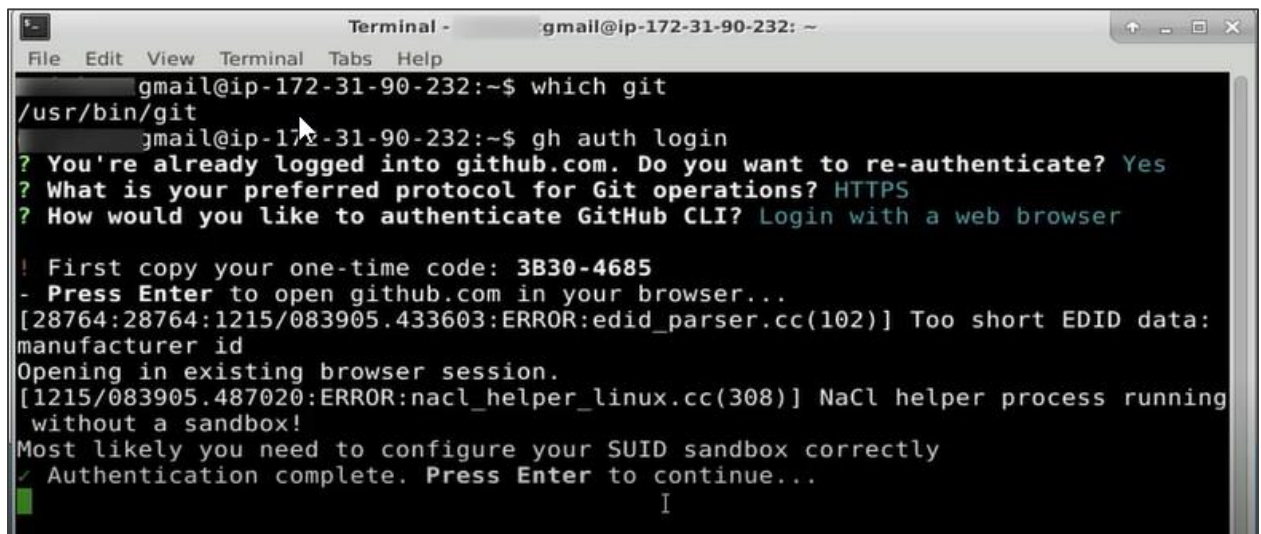


2.10 Grant access to the requested permissions and resources on GitHub by clicking on the **Authorize GitHub** button



Once the authentication is successful, a message will indicate that the GitHub authentication has been completed.

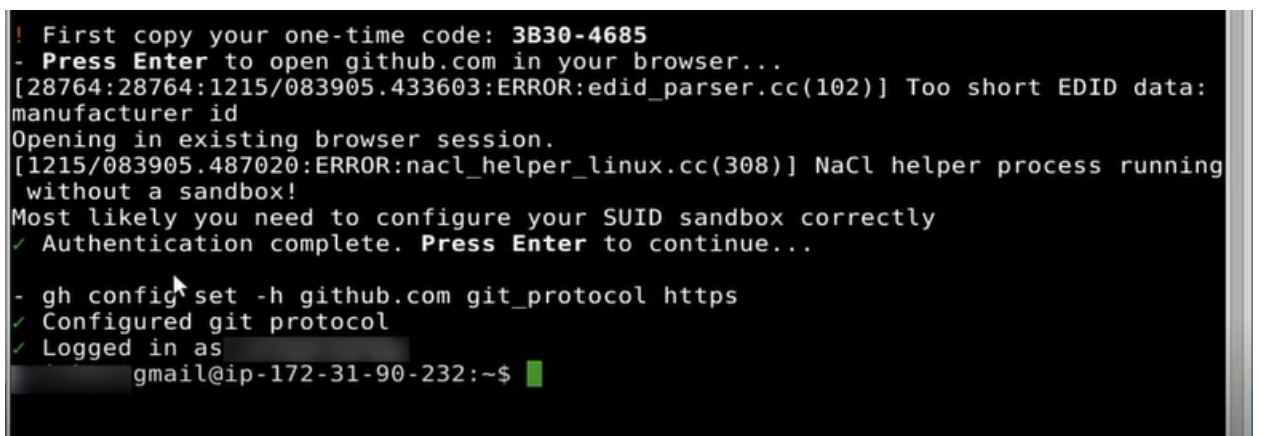
2.11 Also, on navigating back to the terminal, you will see that the authentication process is also completed

A terminal window titled 'Terminal - gmail@ip-172-31-90-232: ~' showing the execution of 'which git' and 'gh auth login'. The 'gh auth login' command prompts for re-authentication, protocol (HTTPS), and authentication method (Login with a web browser). It displays a one-time code '3B30-4685' and instructions to press Enter to open github.com. It also shows error messages related to EDID data and NaCl helper process running without a sandbox, followed by a message to configure SUID sandbox correctly. The process ends with 'Authentication complete. Press Enter to continue...' and a green cursor on a new line.

```
Terminal - gmail@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
gmail@ip-172-31-90-232:~$ which git
/usr/bin/git
gmail@ip-172-31-90-232:~$ gh auth login
? You're already logged into github.com. Do you want to re-authenticate? Yes
? What is your preferred protocol for Git operations? HTTPS
? How would you like to authenticate GitHub CLI? Login with a web browser

! First copy your one-time code: 3B30-4685
- Press Enter to open github.com in your browser...
[28764:28764:1215/083905.433603:ERROR:edid_parser.cc(102)] Too short EDID data:
manufacturer id
Opening in existing browser session.
[1215/083905.487020:ERROR:nacl_helper_linux.cc(308)] NaCl helper process running
without a sandbox!
Most likely you need to configure your SUID sandbox correctly
✓ Authentication complete. Press Enter to continue...
I
```

2.12 Press Enter

A terminal window showing the continuation of the GitHub authentication process. It repeats the one-time code '3B30-4685' and the instruction to press Enter to open github.com. It also shows the same error messages as the previous screenshot. The process then shows 'gh config set -h github.com git_protocol https' being executed, followed by 'Configured git protocol' and 'Logged in as' (with a redacted username). The prompt returns to 'gmail@ip-172-31-90-232:~\$' with a green cursor.

```
! First copy your one-time code: 3B30-4685
- Press Enter to open github.com in your browser...
[28764:28764:1215/083905.433603:ERROR:edid_parser.cc(102)] Too short EDID data:
manufacturer id
Opening in existing browser session.
[1215/083905.487020:ERROR:nacl_helper_linux.cc(308)] NaCl helper process running
without a sandbox!
Most likely you need to configure your SUID sandbox correctly
✓ Authentication complete. Press Enter to continue...

- gh config set -h github.com git_protocol https
✓ Configured git protocol
✓ Logged in as [REDACTED]
gmail@ip-172-31-90-232:~$
```

By following these steps, you have successfully configured your Git account with GitHub, enabling you to manage your repositories and collaborate on projects efficiently.