

Lesson 2 Demo 1

Configuring Git Account with GitHub

Objective: To configure Git account with GitHub

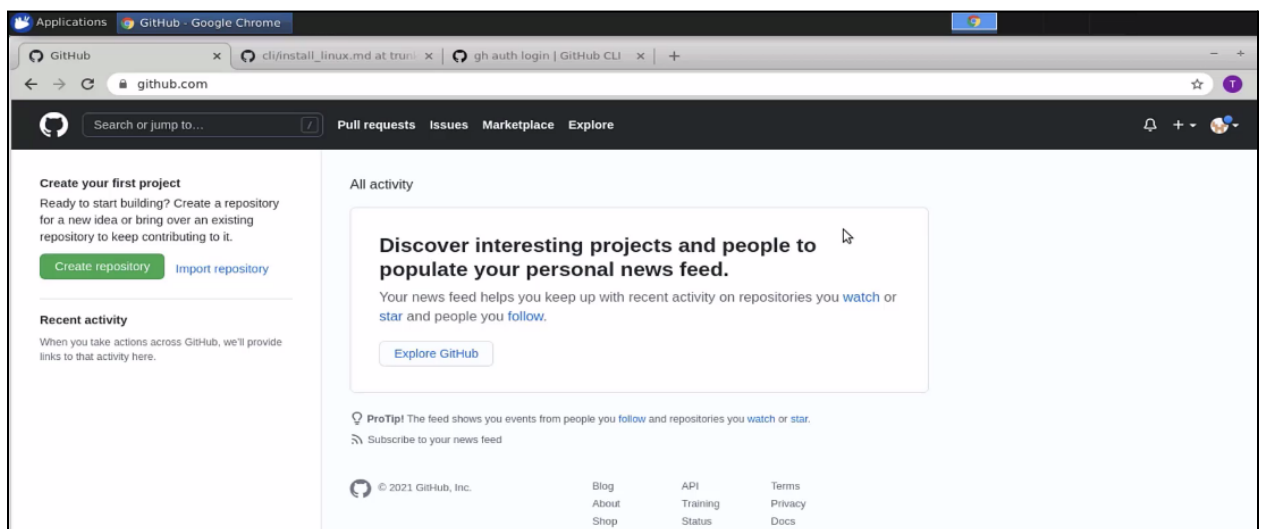
Prerequisites: None

Steps to be followed:

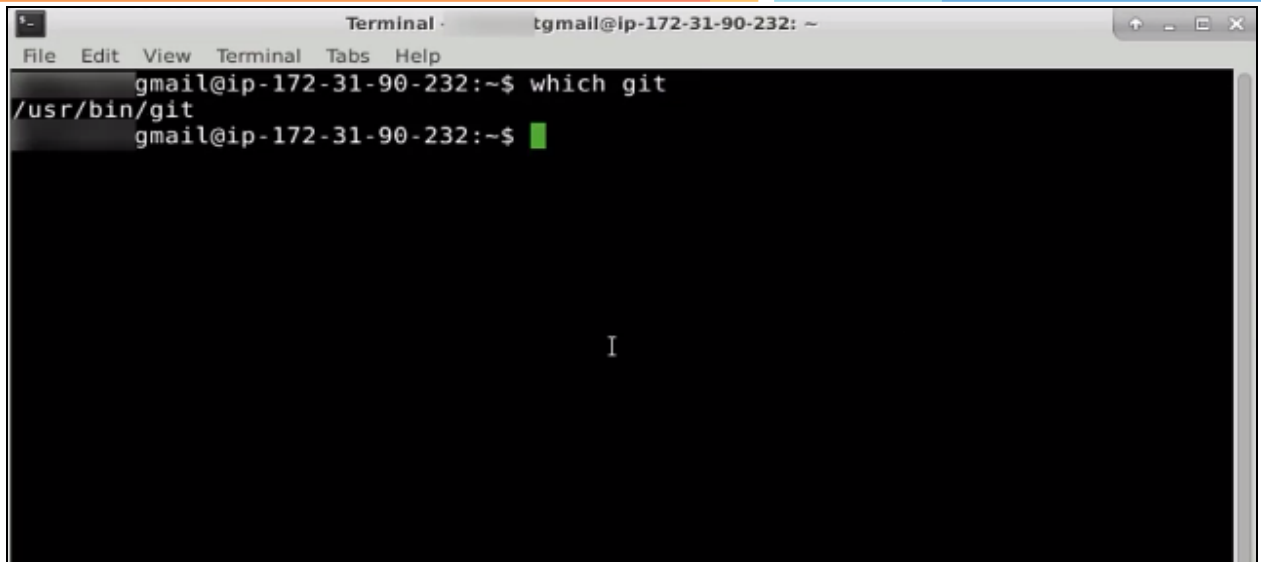
1. Creating a GitHub account
2. Configuring Git account with GitHub

Step 1: Creating a GitHub account:

- 1.1 Go to **github.com** and create an account by log in with a username and password or signing in using the Google account



- 1.2 For this system, the Git is already configured in the Linux environment. So, open the terminal and check for git by typing which git command.

A terminal window titled "Terminal" with the prompt "tgmail@ip-172-31-90-232: ~". The command "which git" has been executed, and the output is "/usr/bin/git". The prompt is now "tgmail@ip-172-31-90-232:~\$".

```
Terminal - tgmail@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
tgmail@ip-172-31-90-232:~$ which git
/usr/bin/git
tgmail@ip-172-31-90-232:~$
```

1.3 You can see that Git is already preinstalled in the system. With Git, you also need to install the GitHub CLI. It is needed to access GitHub from your system.

[Official sources](#)

[Debian, Ubuntu Linux, Raspberry Pi OS \(apt\)](#)

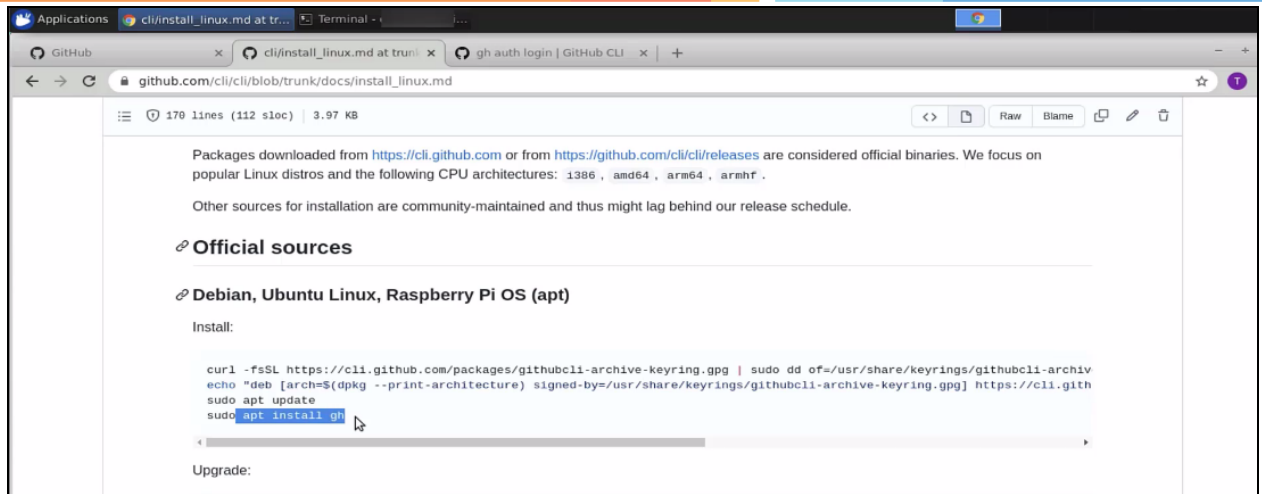
Install:

```
curl -fsSL https://cli.github.com/packages/githubcli-archive-keyring.gpg | sudo dd of=/usr/share/keyrings/githubcli-a
echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/githubcli-archive-keyring.gpg] https://cli.g
sudo apt update
sudo apt install gh
```

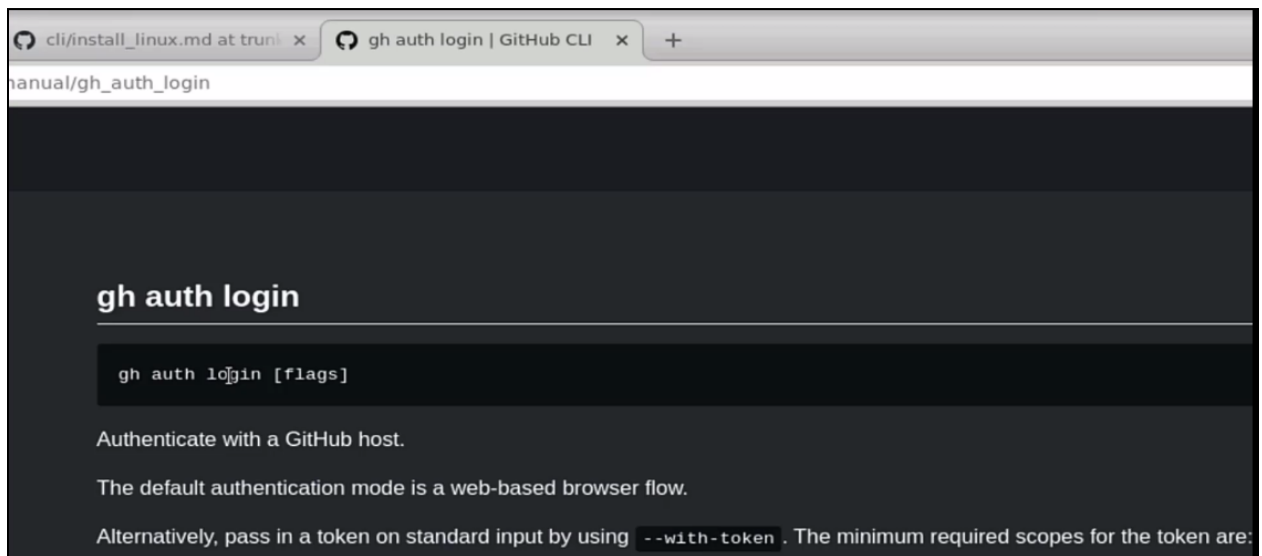
Upgrade:

Step 2: Configuring Git account with GitHub

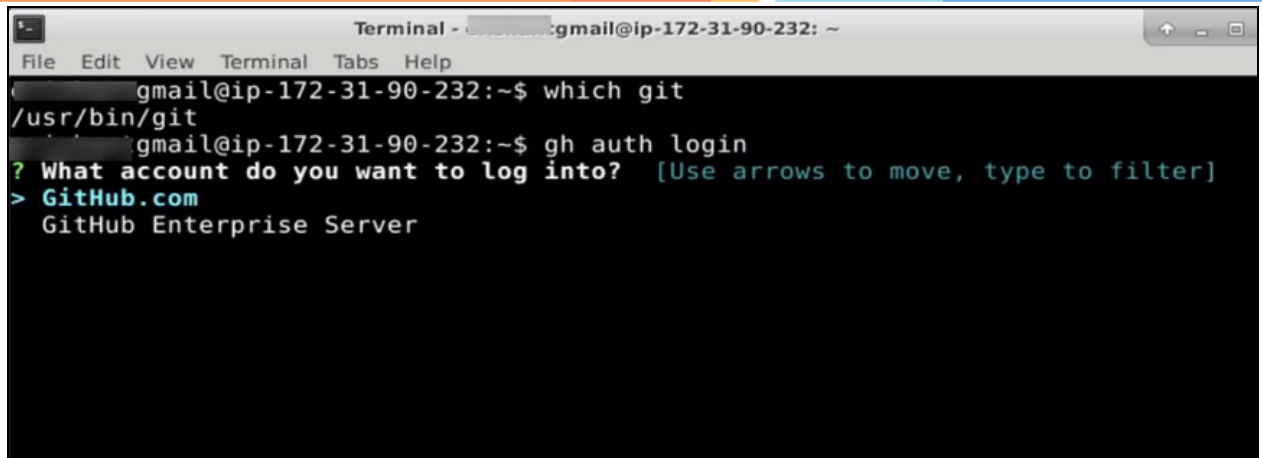
2.1 Open the link github.com/cli and go to the official sources link as shown above. Copy the command and type: **sudo apt install gh**.



2.2 Once the GitHub CLI is installed, go to the terminal window and type: **gh auth login** [flags]

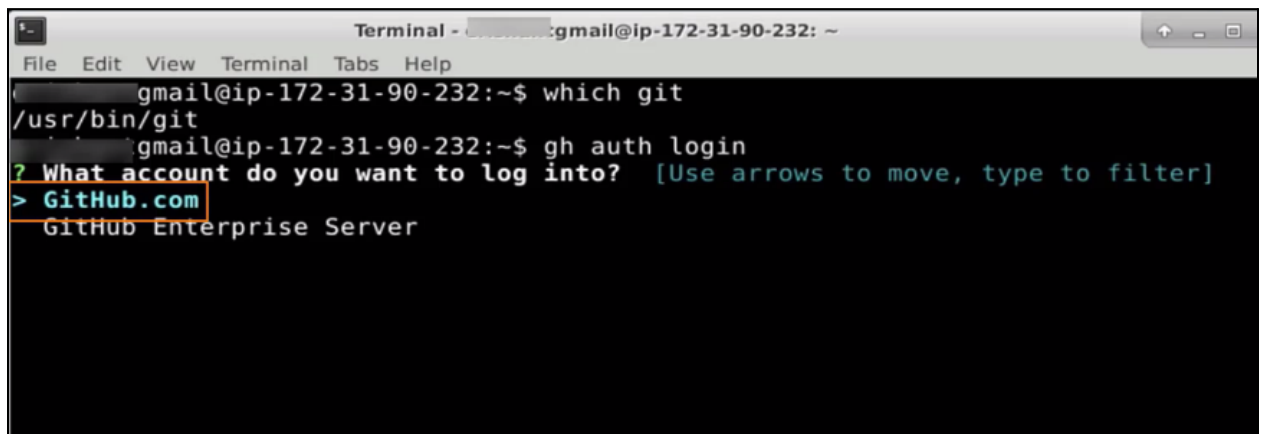


2.3 You will get a personal access token using which you can manage the code on GitHub. Go to the terminal and type: **gh auth login**.



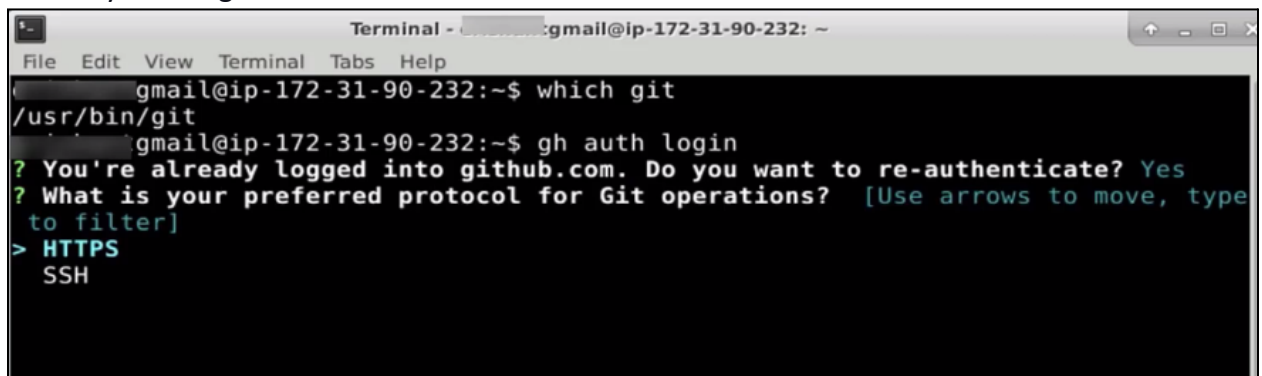
```
Terminal - [redacted]@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
[redacted]@ip-172-31-90-232:~$ which git
/usr/bin/git
[redacted]@ip-172-31-90-232:~$ gh auth login
? What account do you want to log into? [Use arrows to move, type to filter]
> GitHub.com
  GitHub Enterprise Server
```

2.4 Select GitHub.com



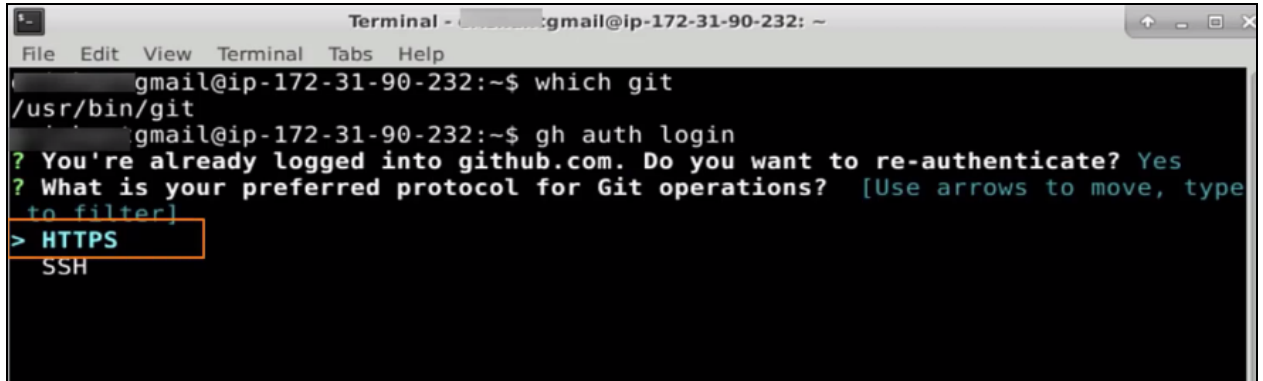
```
Terminal - [redacted]@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
[redacted]@ip-172-31-90-232:~$ which git
/usr/bin/git
[redacted]@ip-172-31-90-232:~$ gh auth login
? What account do you want to log into? [Use arrows to move, type to filter]
> GitHub.com
  GitHub Enterprise Server
```

2.5 Enter Y to reauthenticate as you are already logged in. In case you are not logged in, it will ask you to log in.



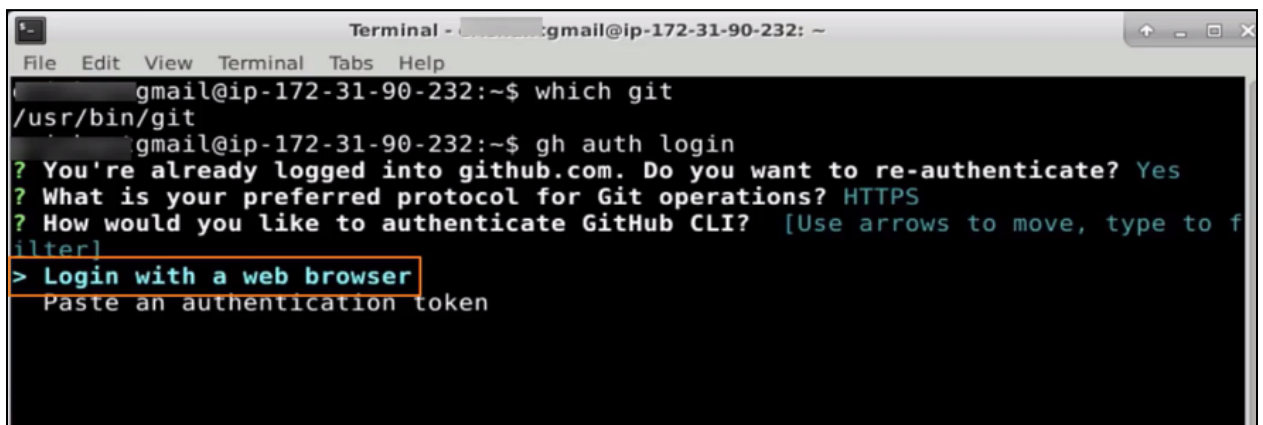
```
Terminal - [redacted]@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
[redacted]@ip-172-31-90-232:~$ which git
/usr/bin/git
[redacted]@ip-172-31-90-232:~$ gh auth login
? You're already logged into github.com. Do you want to re-authenticate? Yes
? What is your preferred protocol for Git operations?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

2.6 Choose the HTTPS



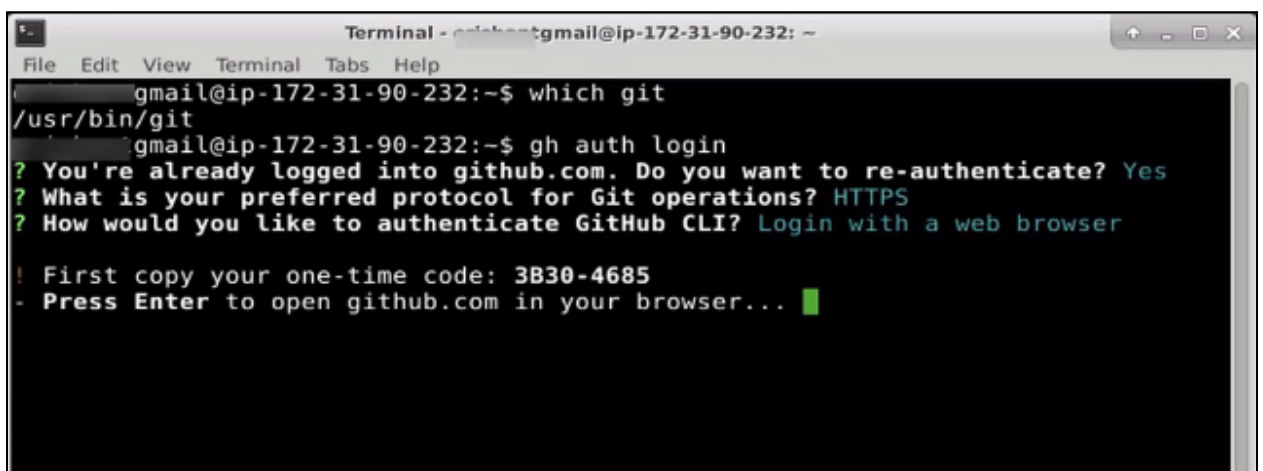
```
Terminal - [redacted]@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
[redacted]@ip-172-31-90-232:~$ which git
/usr/bin/git
[redacted]@ip-172-31-90-232:~$ gh auth login
? You're already logged into github.com. Do you want to re-authenticate? Yes
? What is your preferred protocol for Git operations?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

2.7 Select **Login with a 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? [Use arrows to move, type to f
ilter]
> Login with a web browser
Paste an authentication token
```

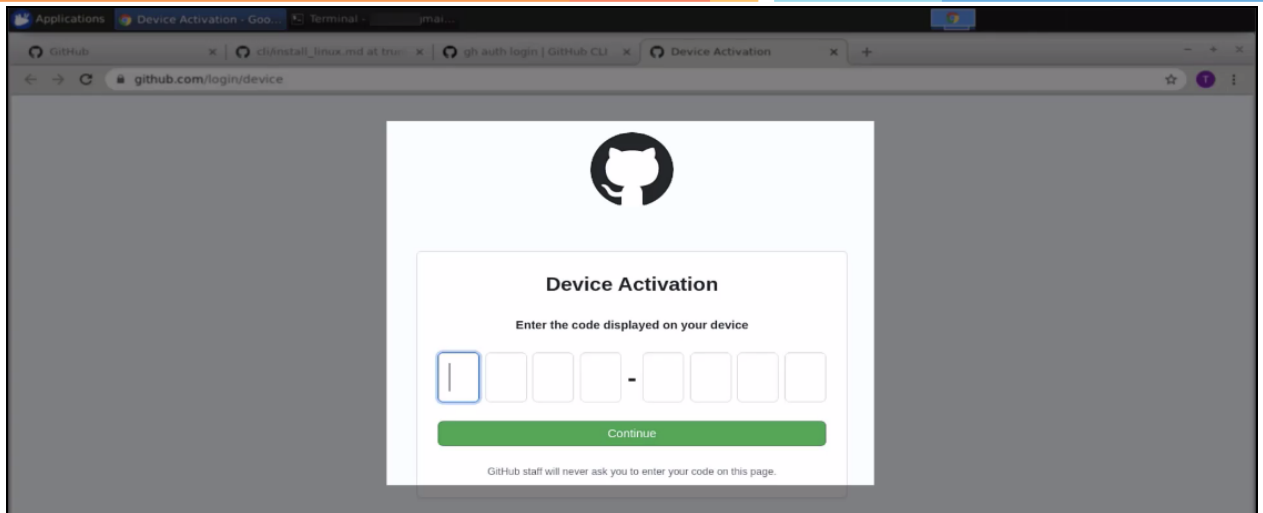
2.8 Press **enter** to open github.com in your browser



```
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 github.com in your browser... █
```

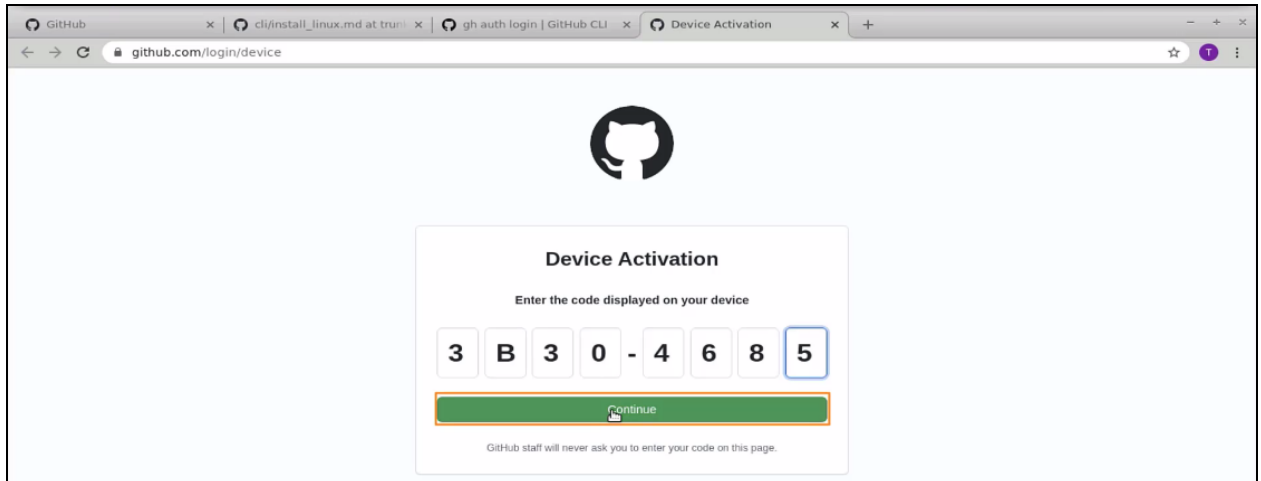
2.9 Enter the device activation code



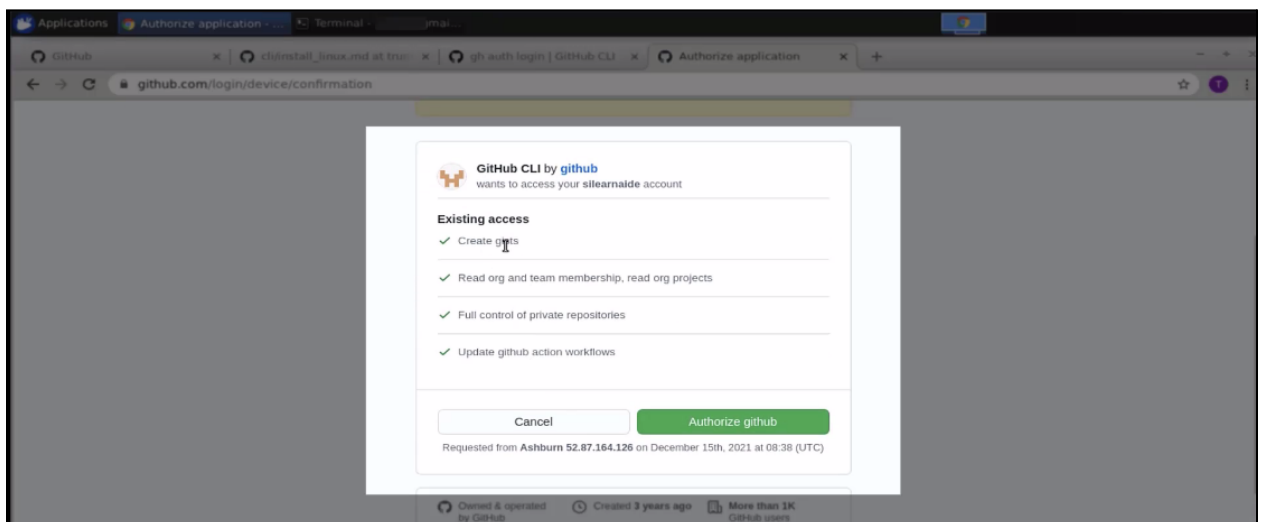
2.10 The device activation code will already be given in the console. Copy and paste the code into the browser.

```
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-J4685
- 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
```

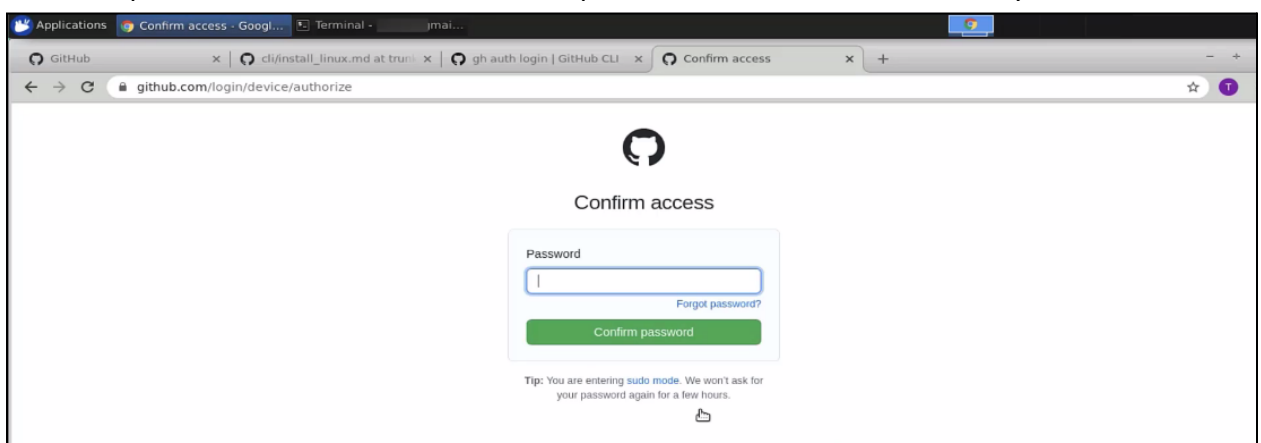
2.11 Click on **continue**



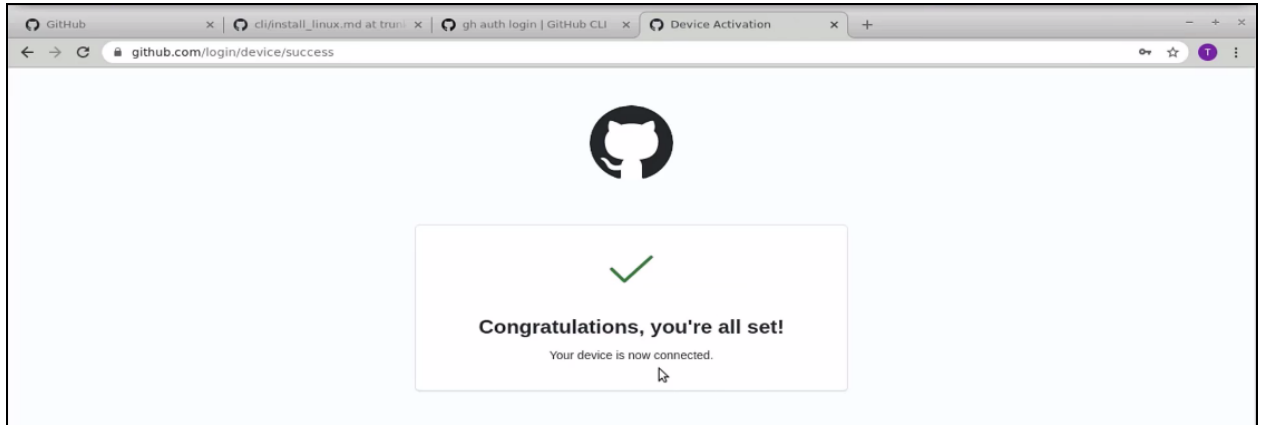
2.12 You can grant access to different resources on GitHub. Click on the **Authorize GitHub** button.



2.13 Enter the password and click on the confirm password button to authenticate yourself



2.14 The GitHub structure will be done



2.15 Go back to the console, and you will see that the authentication is completed

```
Terminal - jmail@ip-172-31-90-232: ~
File Edit View Terminal Tabs Help
jmail@ip-172-31-90-232:~$ which git
/usr/bin/git
jmail@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...

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

2.16 This is all about the configuration. With the **gh auth login** command in the CLI, you may access GitHub.


```
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...

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

Once you are logged in, you can perform different operations like creating a repository, branch, and so on.