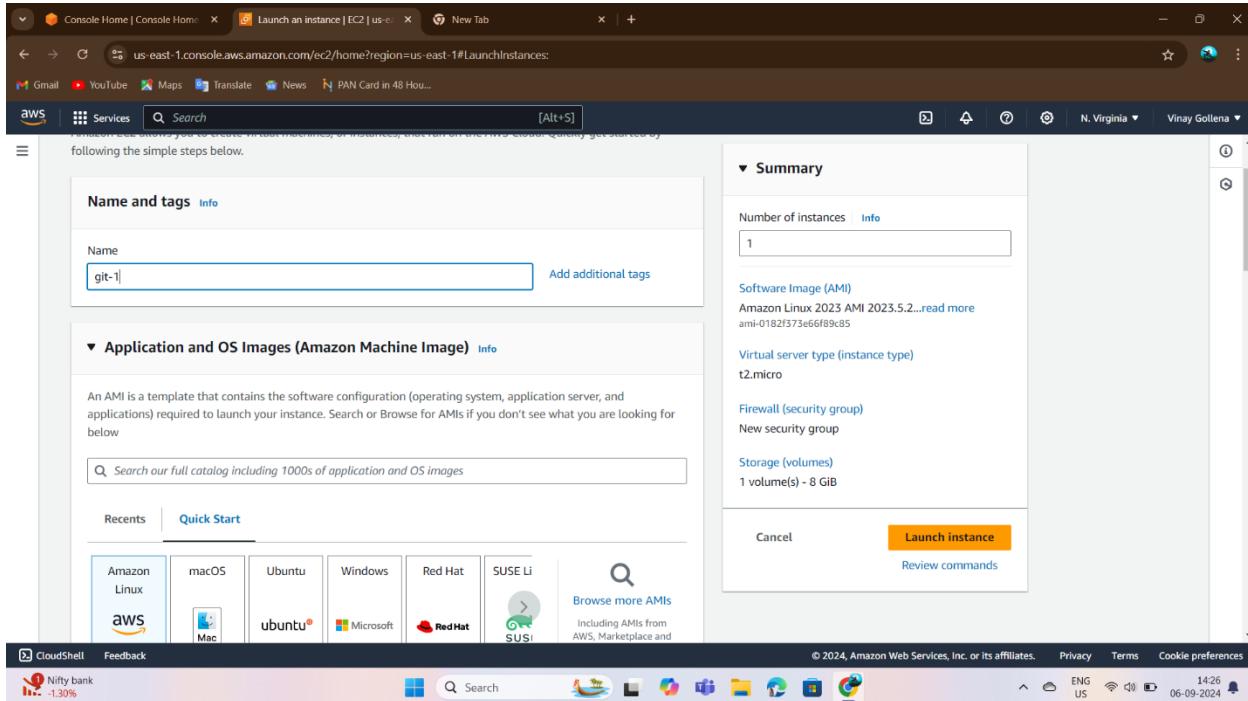


## MINI PROJECT – 2

### GIT – VERSION CONTROL SYSTEM(VCS) BY USING AMAZON WEB SERVICES

#### LAB- 1 (CREATE EC2 INSTANCE) :

- Launching the instance.



Create a server with Amazon Linux 2 AMI.

The screenshot shows the AWS Lambda console interface. A new function named "HelloWorld" is being created. The "Code" tab is active, displaying the Lambda@Edge runtime and a sample code snippet. The "Test" tab shows a successful execution with the output "Hello World!". The "Overview" tab is also visible.

- Instance has been launched.

The screenshot shows the AWS EC2 Instances page. A single instance named "git-1" is listed, running in the t2.micro instance type. The instance has a Public IP of 44.204.163.202 and a Private IP of 172.31.87.38. The instance status is "Running".

- Initialize the connection to the server.

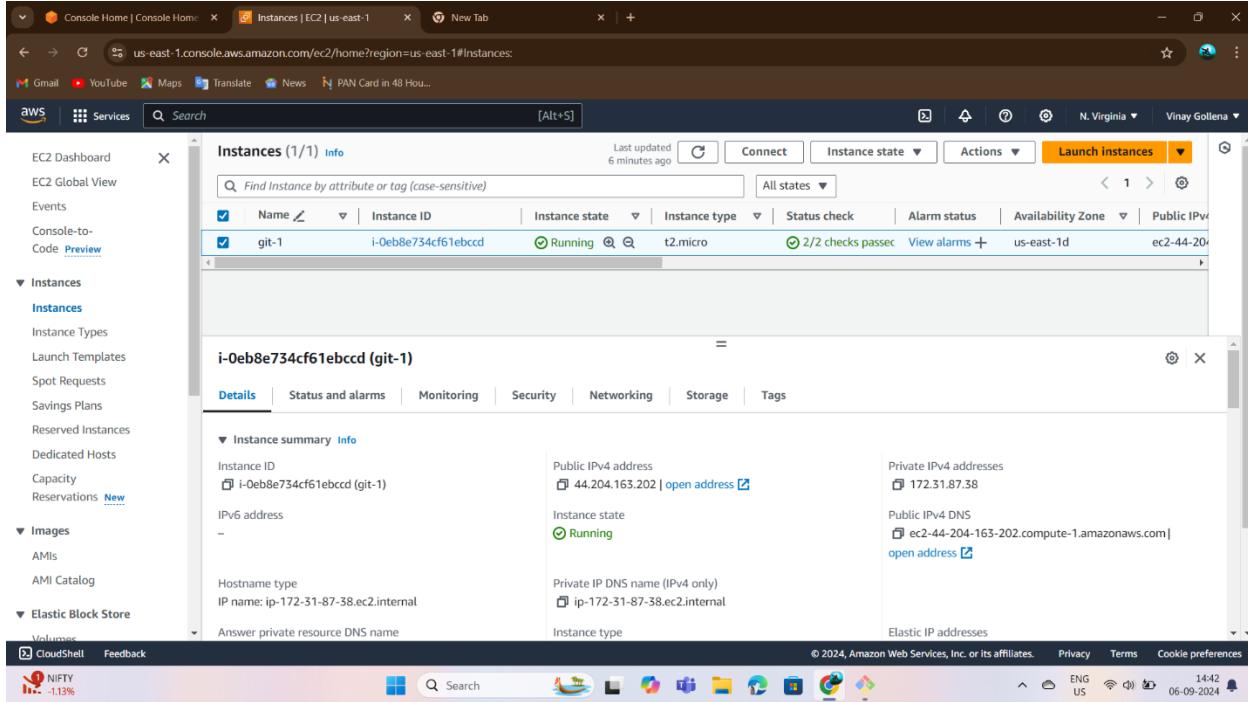
```
MINGW64:/c/Users/SrijaDulam
Grijabdulam@srija-ramulu MINGW64 ~
$
```

- Connected the server with Git Bash.

```
ec2-user@ip-172-31-87-38:-
Grijabdulam@srija-ramulu MINGW64 ~
$ cd downloads
Grijabdulam@srija-ramulu MINGW64 ~
$ ssh -i "vinay-1.pem" ec2-user@ec2-44-204-163-202.compute-1.amazonaws.com
The authenticity of host 'ec2-44-204-163-202.compute-1.amazonaws.com (44.204.163.202)' can't be established.
ED25519 key fingerprint is SHA256:zwmMwdrp+HnkdZP7b+YTrEV9DEdqe4c08/FqGE.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-44-204-163-202.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
#_
  _\###_
    Amazon Linux 2
  _\###_
    (###)
    #/
  _\###_
    V-->
  _\###_
    AL2 End of Life is 2025-06-30.
  _\###_
    A newer version of Amazon Linux is available!
  _\###_
    Amazon Linux 2023, GA and supported until 2028-03-15.
  _\###_
    https://aws.amazon.com/linux/amazon-linux-2023/
2 packages(2) needed for security, out of 3 available
run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-87-38 ~]$
```

## LAB- 2 (CREATE REPO IN LOCAL MACHINE) :

- Launching the instance.



### Connecting the server.

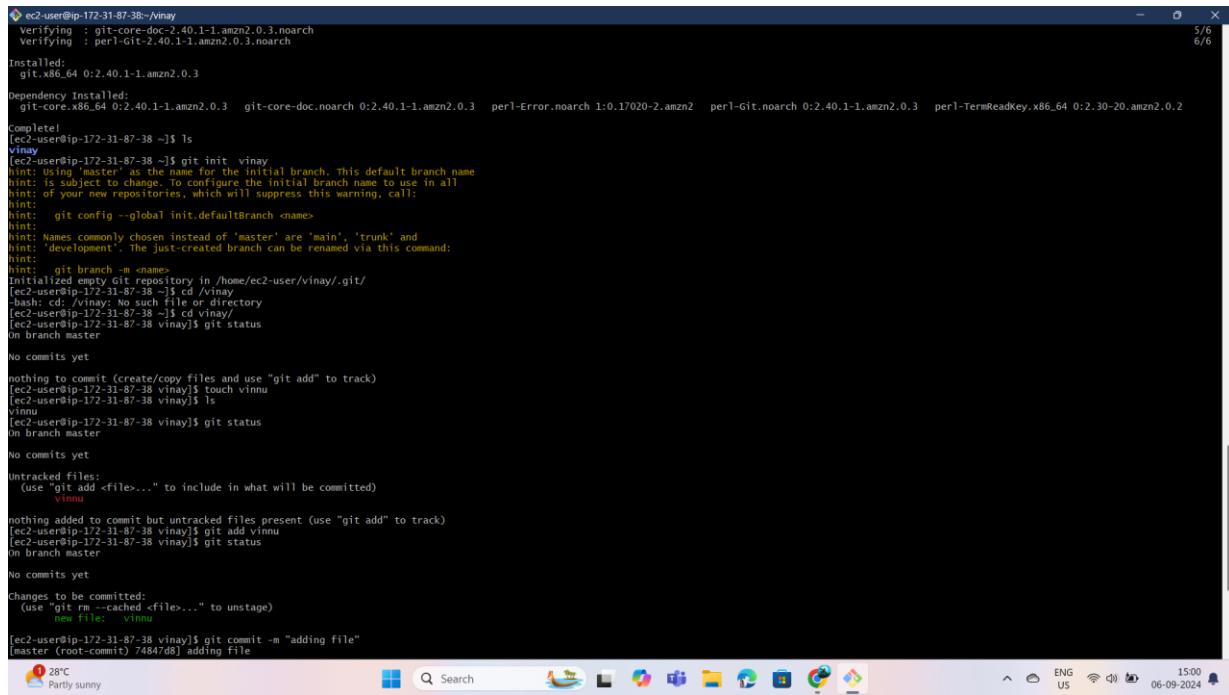
```
git-1:~$ ssh -i ./key git-1
[ec2-user@ip-172-31-87-38 ~]$ cd
[ec2-user@ip-172-31-87-38 ~]$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Resolving Dependencies
--> Running transaction check
--> Package git.x86_64 0:2.40.1-1.amzn2.0.3 will be installed
--> Processing Dependency: git-core = 2-40.1-1.amzn2.0.3 for package: git-2.40.1-1.amzn2.0.3.x86_64
--> Processing Dependency: perl-Git = 2.40.1-1.amzn2.0.3 for package: git-2.40.1-1.amzn2.0.3.x86_64
--> Processing Dependency: perl(Git) for package: git-2.40.1-1.amzn2.0.3.x86_64
--> Processing Dependency: perl(Term::ReadKey) for package: git-2.40.1-1.amzn2.0.3.x86_64
--> Running transaction check
--> Package git-core.x86_64 0:2.40.1-1.amzn2.0.3 will be installed
--> Package perl-TermReadkey.noarch 0:2.40.1-1.amzn2.0.3 will be installed
--> Processing Dependency: perl(Error) for package: perl-Git-2.40.1-1.amzn2.0.3.noarch
--> Package perl-TermReadkey.x86_64 0:2.30-20.amzn2.0.2 will be installed
--> Running transaction check
--> Package perl-Error.noarch 1:0.17020-2.amzn2 will be installed
--> Finished Dependency Resolution
Dependencies Resolved

Transaction Summary
Install 1 Package (+5 Dependent packages)

Total download size: 13
Installed size: 31 MB
Downloading packages:
(1/6): git-2.40.1-1.amzn2.0.3.x86_64.rpm | 54 kB 00:00:00
(2/6): git-core-doc-2.40.1-1.amzn2.noarch.rpm | 31 kB 00:00:00
(3/6): perl-TermReadkey-2.30-20.amzn2.noarch.rpm | 32 kB 00:00:00
(4/6): perl-Git-2.40.1-1.amzn2.0.3.noarch.rpm | 42 kB 00:00:00
(5/6): perl-TermReadkey-2.30-20.amzn2.0.2.x86_64.rpm | 31 kB 00:00:00
(6/6): git-core-2.40.1-1.amzn2.0.3.x86_64.rpm | 10 MB 00:00:00

Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : git-core-2.40.1-1.amzn2.0.3.x86_64
Installing : git-core-doc-2.40.1-1.amzn2.0.3.noarch
Installing : perl-Git-2.40.1-1.amzn2.0.3.noarch
1/6
2/6
3/6
git-1:~$
```

- Create a folder and initialize this folder using “git init” command.
  - a. --> git init <folder name>
- Open the folder and run “git status” command to check the status.
- Create some empty files using touch command
  - a. --> touch test



```

ec2-user@ip-172-31-87-38:~$ git init
Verifying : git-core-doc-2.40.1-1.amzn2.0.3.noarch
Verifying : perl-Git-2.40.1-1.amzn2.0.3.noarch
Installed:
  git.x86_64 0:2.40.1-1.amzn2.0.3
Dependency Installed:
  git-core.x86_64 0:2.40.1-1.amzn2.0.3  git-core-doc.noarch 0:2.40.1-1.amzn2.0.3  perl-Error.noarch 1:0.17020-2.amzn2  perl-Git.noarch 0:2.40.1-1.amzn2.0.3  perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2
Completed!
[ec2-user@ip-172-31-87-38 ~]$ ls
vinay
[ec2-user@ip-172-31-87-38 ~]$ git init vinay
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:   git config --global init.defaultBranch <name>
hint: Commonly chosen instead of 'master' are 'main', 'trunk', and
hint: 'development'. The just-created branch can be renamed via this command:
hint:   git branch -m <name>
nothing to commit (create/copy files and use "git add" to track)
[ec2-user@ip-172-31-87-38 vinay]$ touch vinnu
[ec2-user@ip-172-31-87-38 vinay]$ cd vinay/
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    vinnu
nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-87-38 vinay]$ git add vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:  vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git commit -m "adding file"
[master (root-commit) 74847d8] adding file
[ec2-user@ip-172-31-87-38 vinay]$
```

The screenshot shows a Windows terminal window with a black background and white text. It displays the steps to initialize a Git repository named 'vinay', create a file named 'vinnu', and then commit it with the message 'adding file'. The terminal window has a title bar 'ec2-user@ip-172-31-87-38:~\$' and a status bar at the bottom showing '28°C Partly sunny' and system icons. The taskbar below the terminal window includes icons for File Explorer, Edge browser, FileZilla, Task View, File Explorer, FileZilla, Edge browser, and File Explorer.

- Again, run git status to see the changes. You can notice that the file is available but not tracked by Git.
- Run git add<filename> to stage this change (git starts tracking this file), you may check it using git status once again.

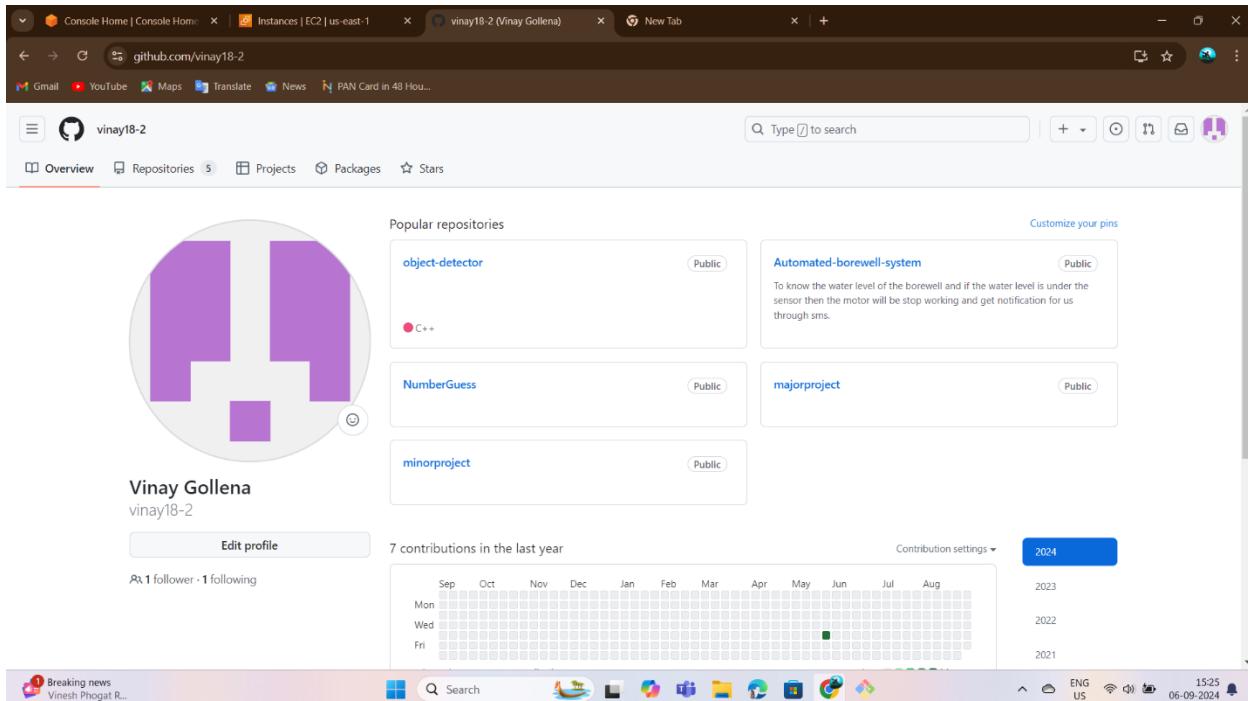
```
ec2-user@ip-172-31-87-38:~/vinay
hint: git branch -m <name>
Initialized empty Git repository in /home/ec2-user/vinay/.git/
[ec2-user@ip-172-31-87-38 ~]$ cd vinay
[ec2-user@ip-172-31-87-38 vinay]$ touch vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git status
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
No commits yet
nothing to commit (create/copy files and use "git add" to track)
[ec2-user@ip-172-31-87-38 vinay]$ touch vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    vinnu
nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-87-38 vinay]$ git add vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git commit -m "adding file"
[master (root-commit) 74847d8] adding file
  Committed from: EC2 Default User <ec2-user@ip-172-31-87-38.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, 0 insertions(+), 0 deletions(-)
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
nothing to commit, working tree clean
[ec2-user@ip-172-31-87-38 vinay]$ 
[ec2-user@ip-172-31-87-38 vinay]$ 
[ec2-user@ip-172-31-87-38 vinay]$ 
[ec2-user@ip-172-31-87-38 vinay]$ 
28°C
Partly sunny
```

- Now commit our changes by running git command – m "added test files".
- Run git status once again and it will show you that the working tree is clean.

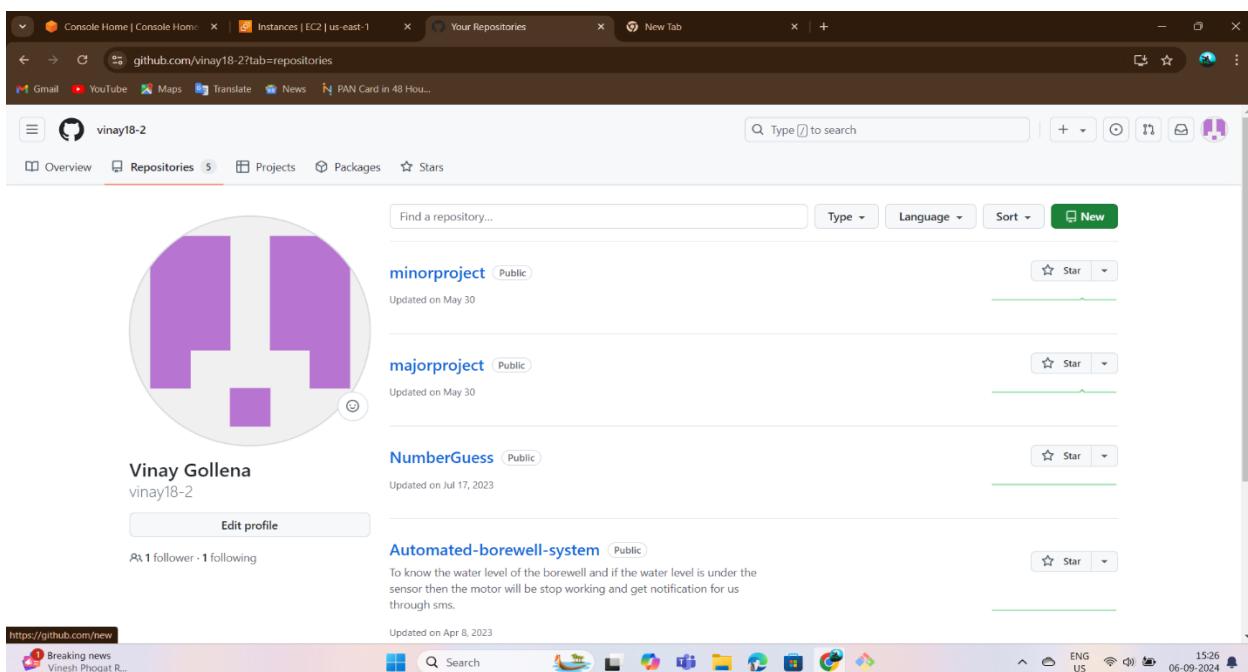
```
ec2-user@ip-172-31-87-38:~/vinay
hint: git branch -m <name>
Initialized empty Git repository in /home/ec2-user/vinay/.git/
[ec2-user@ip-172-31-87-38 ~]$ cd vinay
[ec2-user@ip-172-31-87-38 vinay]$ touch vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git status
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
No commits yet
nothing to commit (create/copy files and use "git add" to track)
[ec2-user@ip-172-31-87-38 vinay]$ touch vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    vinnu
nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-87-38 vinay]$ git add vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   vinnu
[ec2-user@ip-172-31-87-38 vinay]$ git commit -m "adding file"
[master (root-commit) 74847d8] adding file
  Committed from: EC2 Default User <ec2-user@ip-172-31-87-38.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, 0 insertions(+), 0 deletions(-)
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch master
nothing to commit, working tree clean
[ec2-user@ip-172-31-87-38 vinay]$ 
[ec2-user@ip-172-31-87-38 vinay]$ 
[ec2-user@ip-172-31-87-38 vinay]$ 
[ec2-user@ip-172-31-87-38 vinay]$ 
28°C
Partly sunny
```

## LAB-3(CREATING REPO IN REMOTE LOCATION-GITHUB):

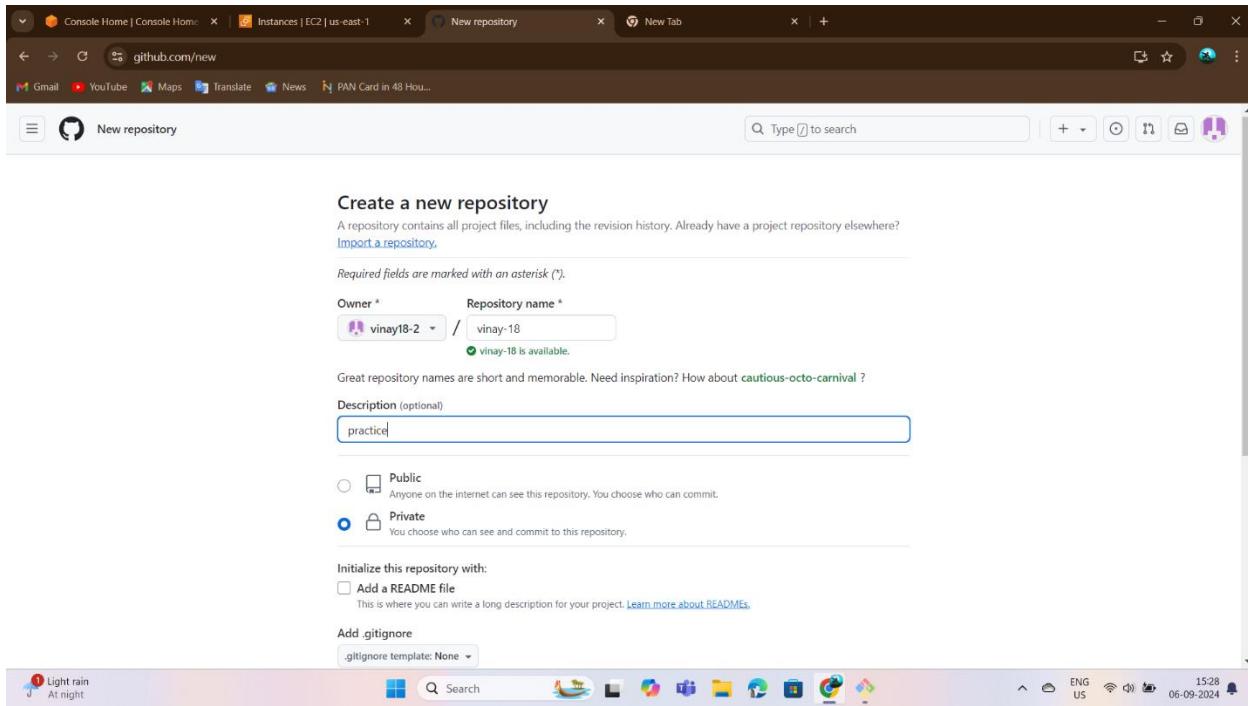
- Open git hub account.



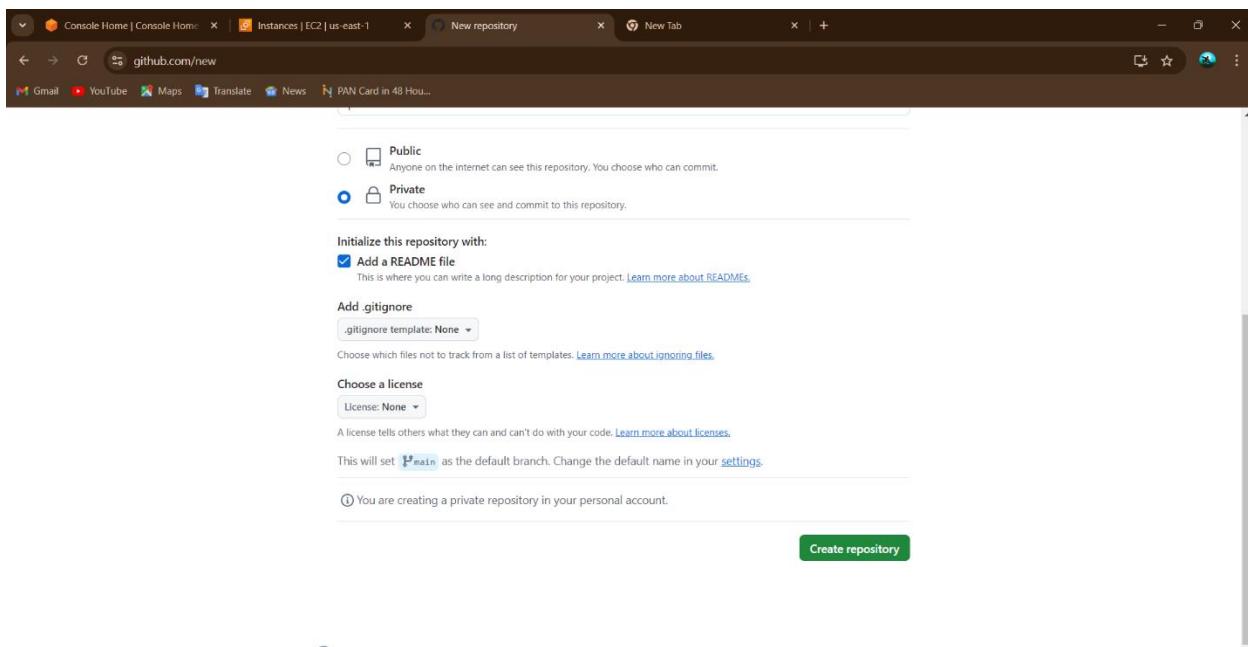
- Go to repositories and click on the new.



Provide the repository name.



Select the private.



- click on create repo and done.
- Here the created new repository in the given below.

The screenshot shows a web browser window with multiple tabs open. The active tab is for the GitHub repository `vinay18-2/vinay-18`. The repository page displays the following information:

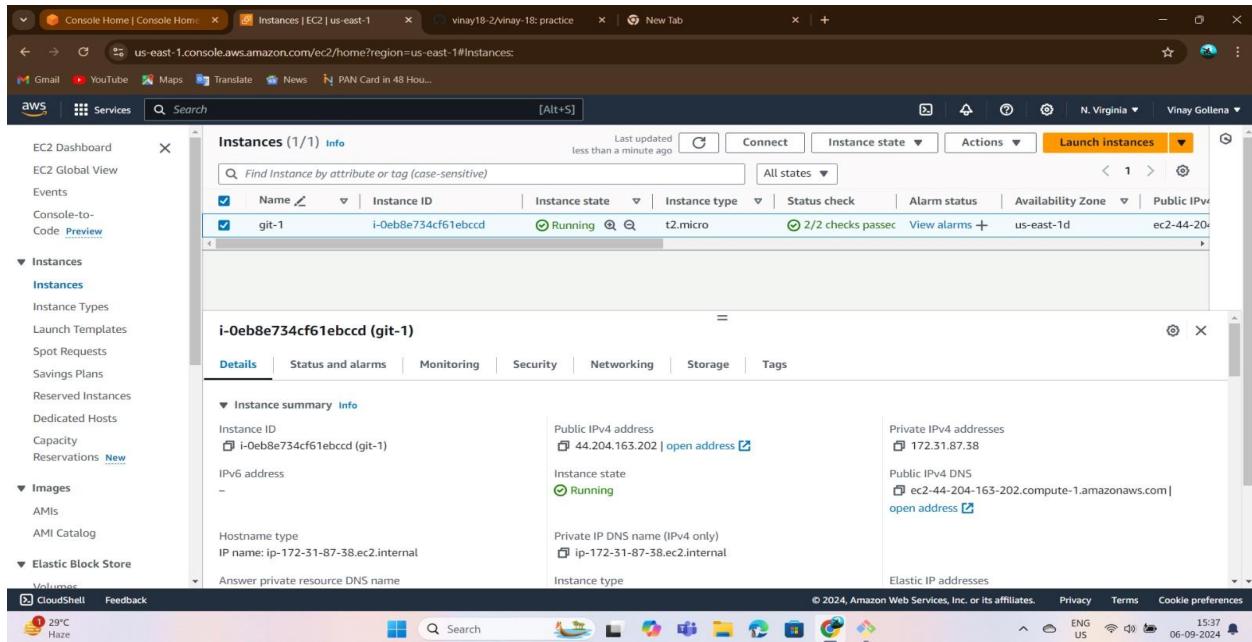
- Code** tab is selected.
- Branches**: main (1 Branch), 0 Tags.
- Commits**: vinay18-2 - Initial commit (8a06fe6 · now, 1 Commit).
- Files**: README.md (Initial commit, now).
- README** file content:

```
vinay-18
practice
```
- About** section:
  - practice
  - Readme
  - Activity
  - 0 stars
  - 1 watching
  - 0 forks
- Releases**: No releases published. Create a new release.
- Packages**: No packages published. Publish your first package.

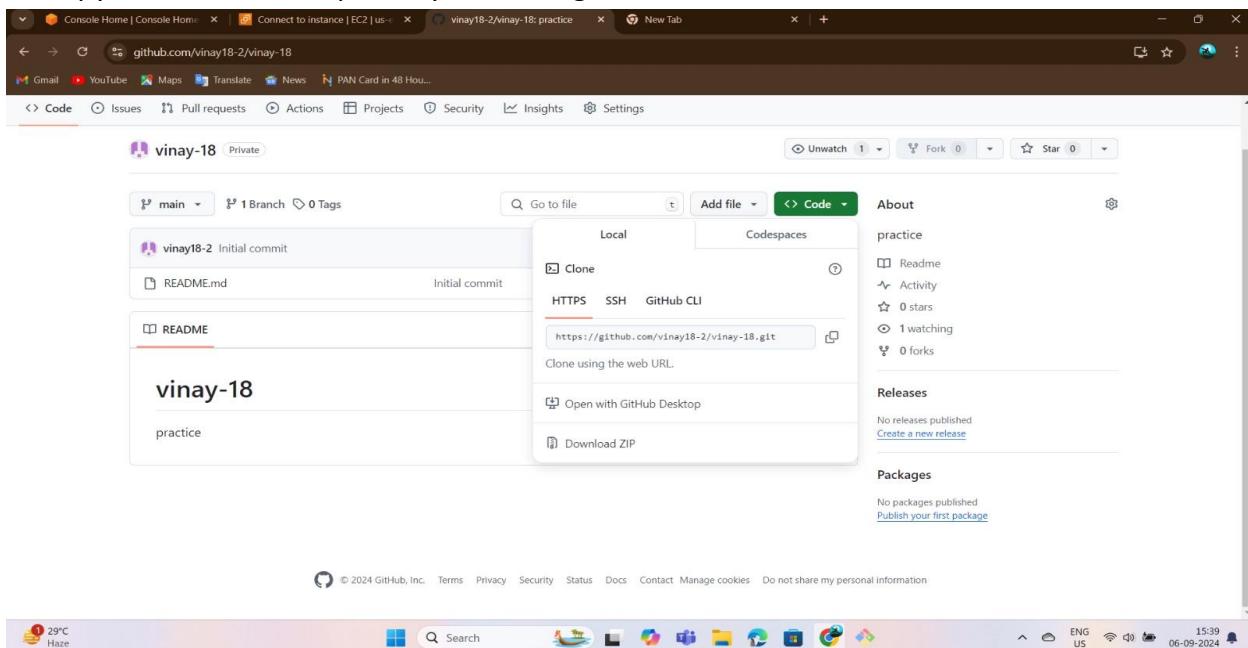
The browser's address bar shows `github.com/vinay18-2/vinay-18`. The taskbar at the bottom of the screen includes icons for Weather (Light rain At night), Search, File Explorer, Task View, and other system icons. The date and time shown are 06-09-2024, 15:29.

## LAB-4(WORKING WITH REMOTE REPO):

- Launch the instance.



- Copy the URL of the repository from the git hub.



- Clone this repo in the local machine.

```
ec2-user@ip-172-31-87-38:~$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Package git-2.40.1-1.amzn2.0.3.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-87-38 ~]$ git clone https://github.com/vinay18-2/vinay-18.git
Cloning into 'vinay-18'...
username for 'https://github.com': vinay18-2
Password for 'https://vinay18-2@github.com': |
```

29°C Haze

Search

ENG US 15:48 06-09-2024

- It will ask the authentication details like user name and password.
- Username is our github account user name.
- Here password means personal access token.
- We need to generate that token by using the following steps.

Console Home | Connect to instance | Your profile | New Tab

github.com/settings/profile

Vinay Gollena (vinay18-2)

Your personal account

Public profile

Name: Vinay Gollena

Profile picture

Public email

Bio: Tell us a little bit about yourself

Pronouns: Don't specify

URL:

Go to your personal profile

Account

Appearance

Accessibility

Notifications

Billing and plans

Emails

Password and authentication

Sessions

SSH and GPG keys

Organizations

Enterprises

Moderation

Code, planning, and automation

Repositories

29°C Haze

Search

ENG US 15:48 06-09-2024

- To create token we need to go to settings and we find the developer settings in that.

The screenshot shows the GitHub Profile Settings page ([github.com/settings/profile](https://github.com/settings/profile)). On the left, there's a sidebar with links like 'Code security and analysis', 'Integrations', 'Applications', 'Scheduled reminders', 'Archives', 'Security log', 'Sponsorship log', and 'Developer settings'. The main area has sections for 'Company' (with a note about linking to a company's GitHub organization) and 'Location'. There's also a checkbox for 'Display current local time'. At the bottom is a green 'Update profile' button.

**Contributions & activity**

**Make profile private and hide activity**  
Enabling this will hide your contributions and activity from your GitHub profile and from social features like followers, stars, feeds, leaderboards and releases.

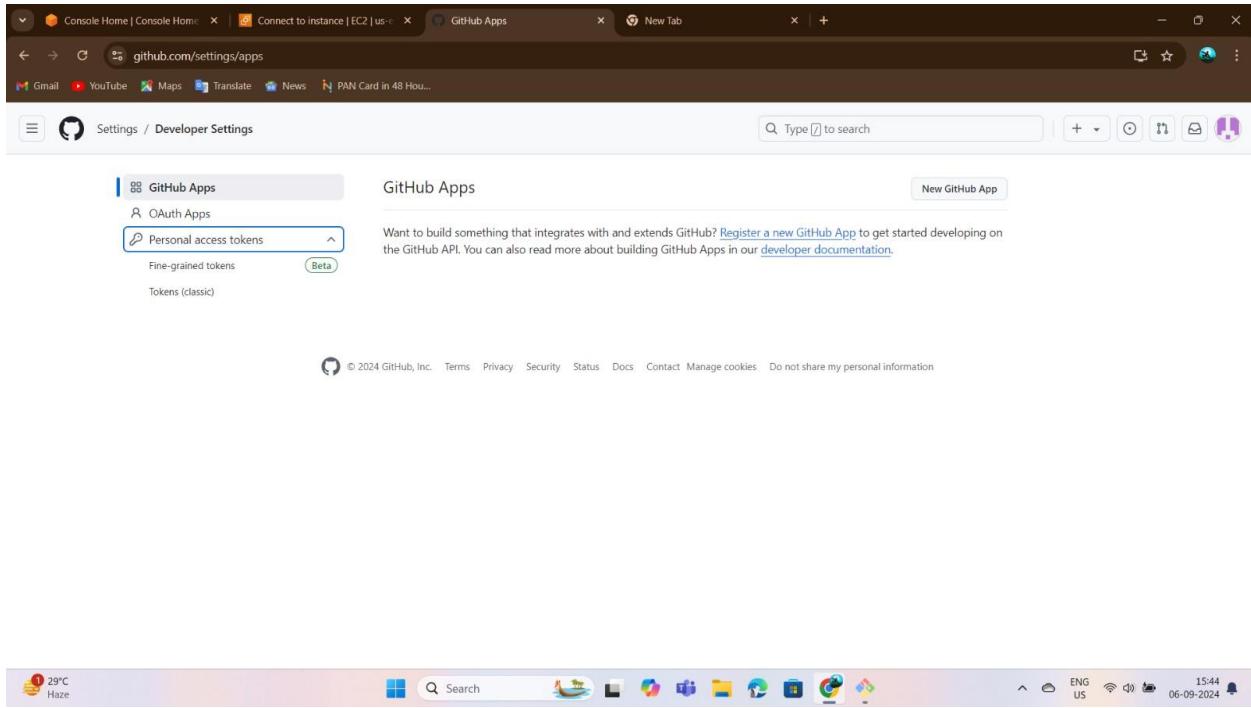
**Include private contributions on my profile**  
Your contribution graph, achievements, and activity overview will show your private contributions without revealing any repository or organization information. [Read more](#).

**Update preferences**

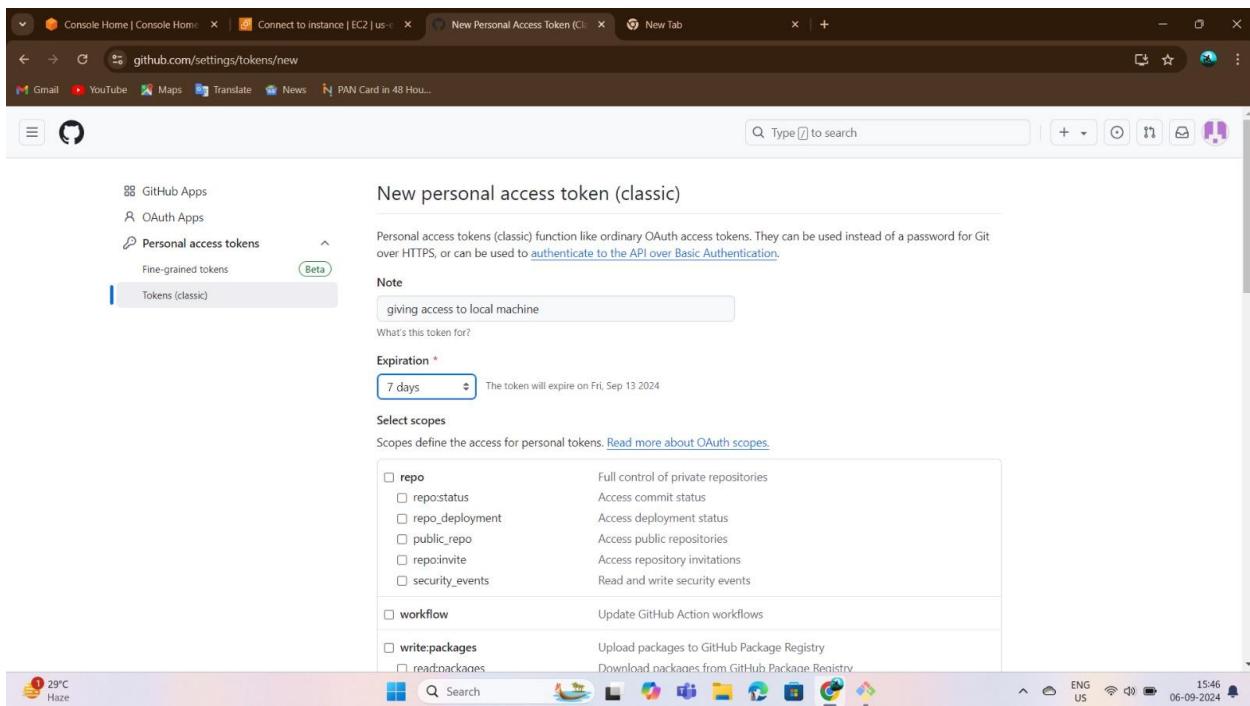
- Open that developer settings and we find there personal access token click on that.

The screenshot shows the GitHub Developer Settings page ([github.com/settings/developers](https://github.com/settings/developers)). The left sidebar has 'GitHub Apps' selected, along with 'OAuth Apps' and 'Personal access tokens'. The main content area is titled 'GitHub Apps' with a sub-instruction: 'Want to build something that integrates with and extends GitHub? [Register a new GitHub App](#) to get started developing on the GitHub API. You can also read more about building GitHub Apps in our [developer documentation](#).'. At the bottom are links for GitHub, Inc., Terms, Privacy, Security, Status, Docs, Contact, Manage cookies, and a note about not sharing personal information.

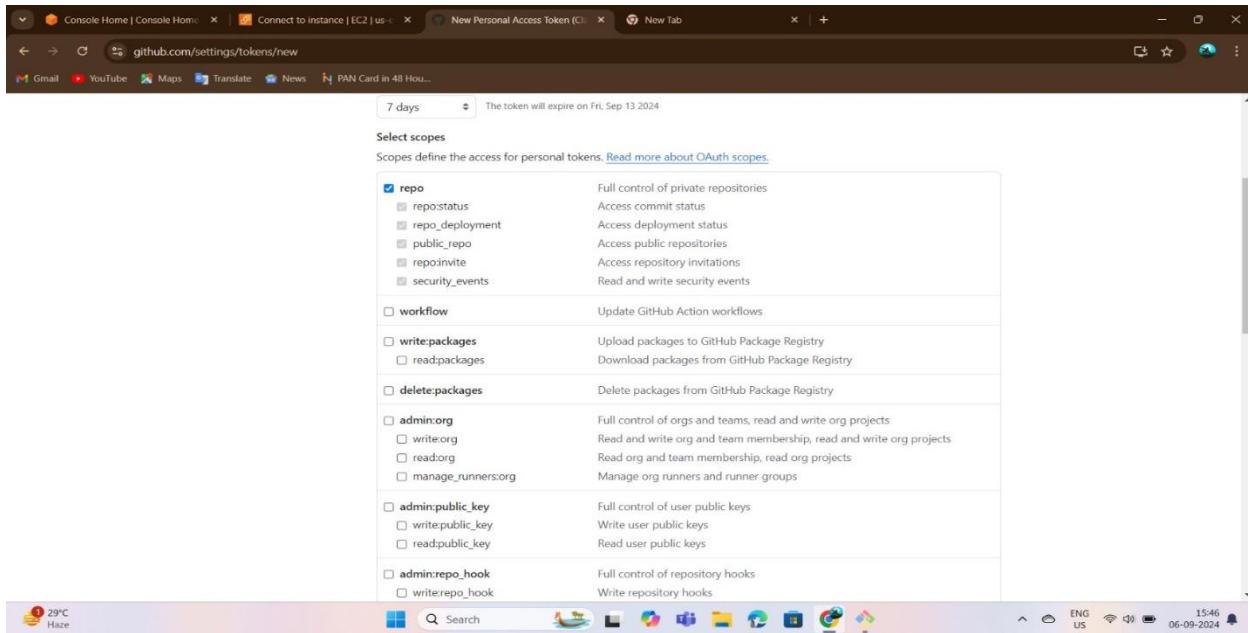




- Select the classic and provide a note. Provide the expiration date.



- Give the repo permissions by selecting the checkbox.



- The token has been generated and copy the token save it .

Some of the scopes you've selected are included in other scopes. Only the minimum set of necessary scopes has been saved.

Personal access tokens (classic)

Generate new token ▾ Revoke all

Tokens you have generated that can be used to access the [GitHub API](#).

Make sure to copy your personal access token now. You won't be able to see it again!

ghp\_ncEb4YgvPWhMzSwAcyih#Wvrcqlx4E21Jr [Delete](#)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).



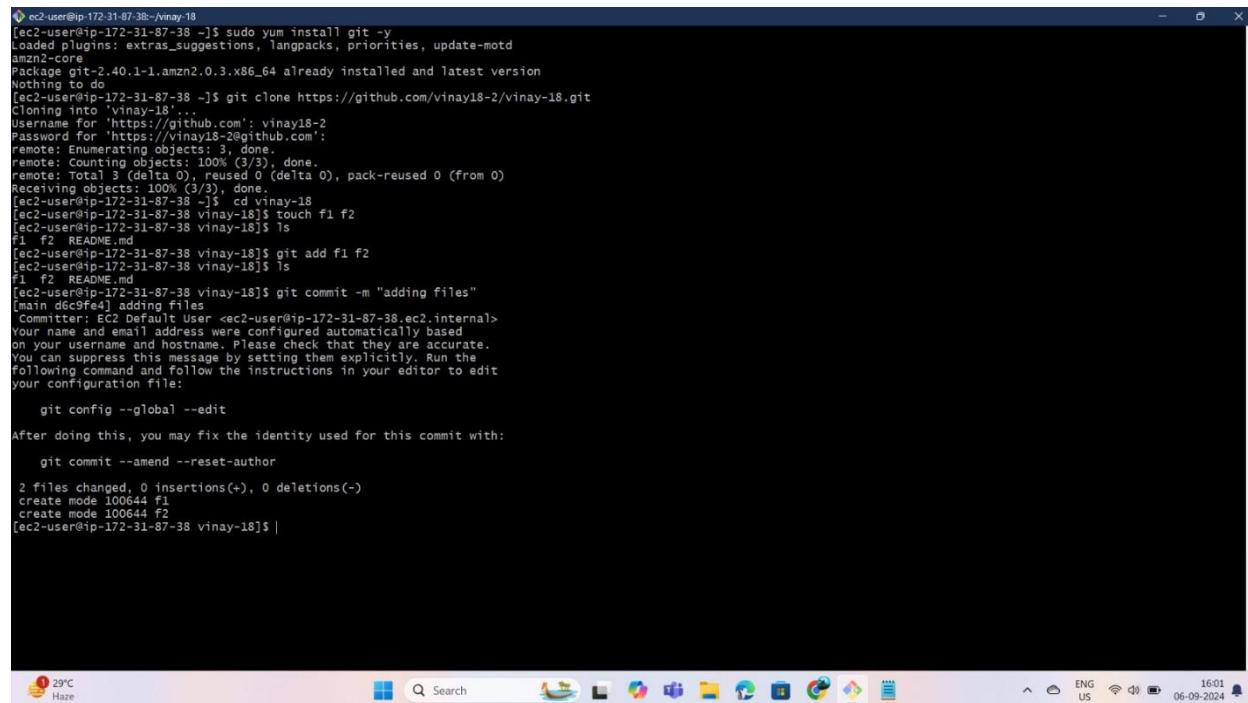
- Provide the username and password .

```
ec2-user@ip-172-31-87-38:~$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Package git-2.40.1-1.amzn2.0.3.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-87-38 ~]$ git clone https://github.com/vinay18-2/vinay-18.git
Cloning into 'vinay-18...'...
Username for 'https://github.com': vinay18-2
Password for 'https://vinay18-2@github.com':
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
[ec2-user@ip-172-31-87-38 ~]$ |
```

- Add some files after cloning the repo by using touch command.

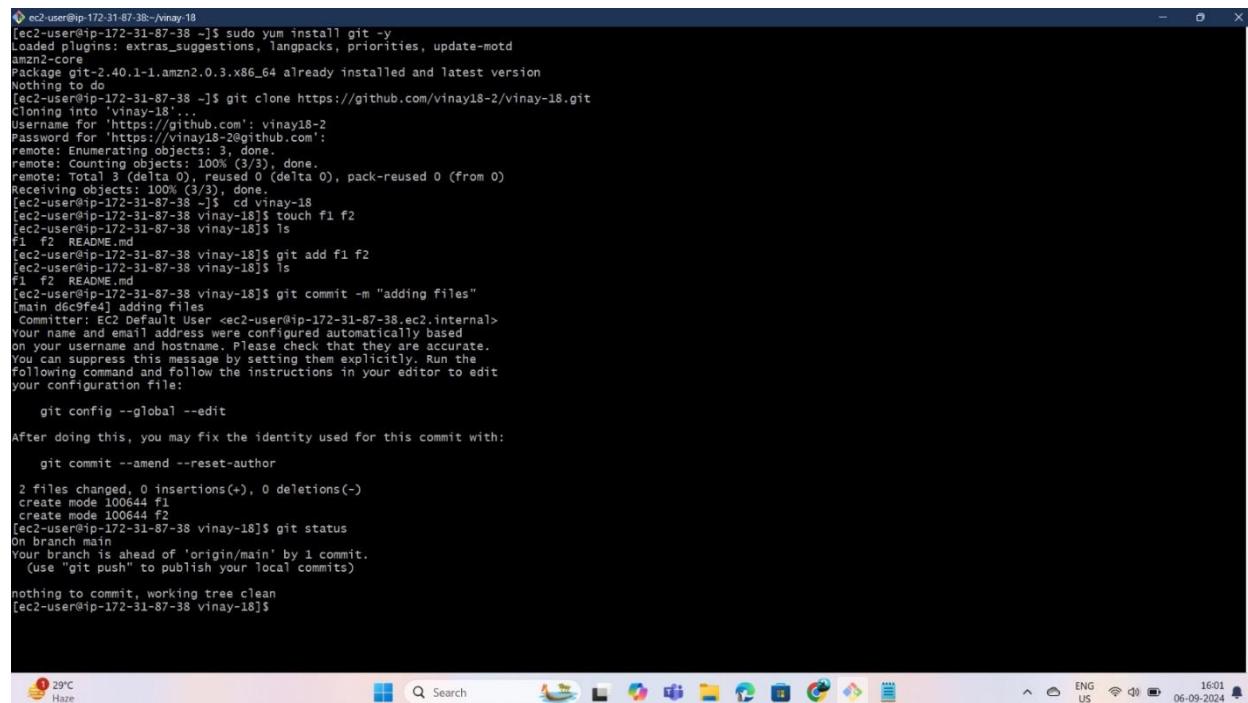
```
ec2-user@ip-172-31-87-38:~$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Package git-2.40.1-1.amzn2.0.3.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-87-38 ~]$ git clone https://github.com/vinay18-2/vinay-18.git
Cloning into 'vinay-18'...
Username for 'https://github.com': vinay18-2
Password for 'https://vinay18-2@github.com':
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
[ec2-user@ip-172-31-87-38 ~]$ cd vinay-18
[ec2-user@ip-172-31-87-38 ~]$ touch f1 f2
[ec2-user@ip-172-31-87-38 vinay-18]$ ls
f1 f2 README.md
[ec2-user@ip-172-31-87-38 vinay-18]$ |
```

## Stage the changes by running git add f1 f2.



```
[ec2-user@ip-172-31-87-38 vinay-18]
[ec2-user@ip-172-31-87-38 ~]$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Package git-2.40.1-1.amzn2.0.3.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-87-38 ~]$ git clone https://github.com/vinay18-2/vinay-18.git
Cloning into 'vinay-18'...
Username for 'https://github.com': vinay18-
Password for 'https://vinay18-2@github.com':
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
[ec2-user@ip-172-31-87-38 ~]$ cd vinay-18
[ec2-user@ip-172-31-87-38 vinay-18]$ touch f1 f2
[ec2-user@ip-172-31-87-38 vinay-18]$ ls
f1 f2 README.md
[ec2-user@ip-172-31-87-38 vinay-18]$ git add f1 f2
[ec2-user@ip-172-31-87-38 vinay-18]$ ls
f1 f2 README.md
[ec2-user@ip-172-31-87-38 vinay-18]$ git commit -m "adding files"
[main 6c69fe1] adding files
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 f1
 create mode 100644 f2
[ec2-user@ip-172-31-87-38 vinay-18]$ |
```

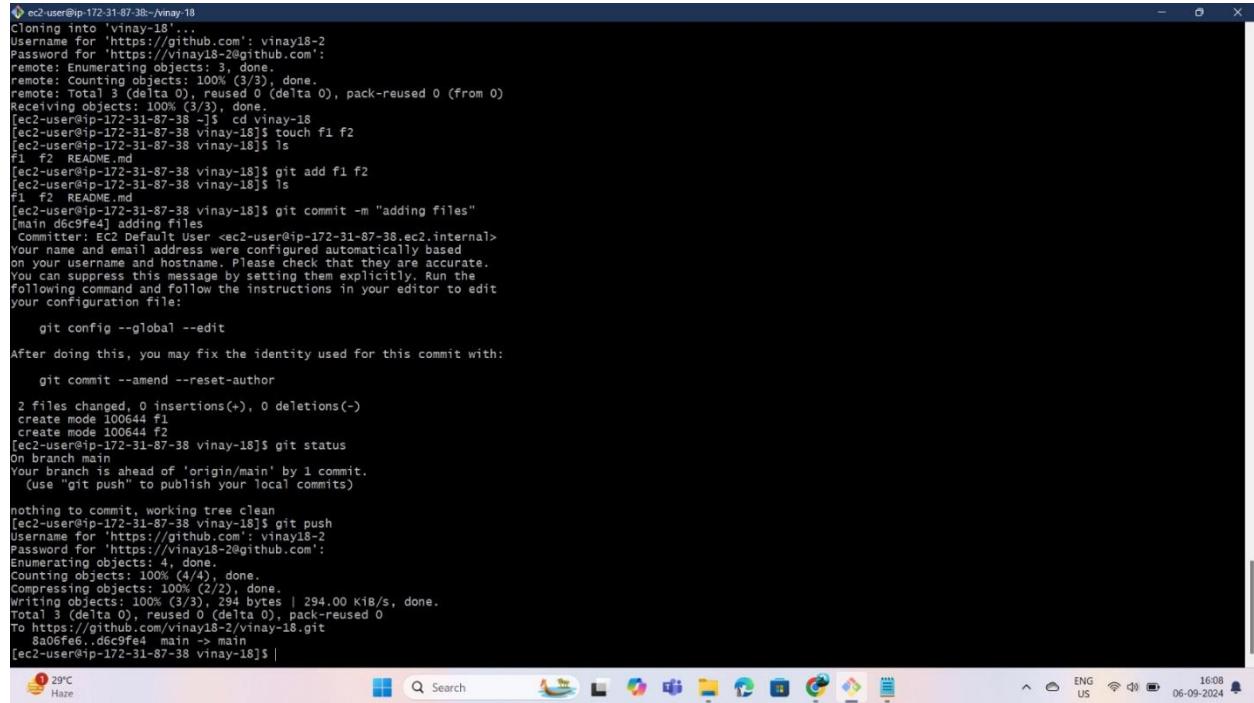
- Commit these changes by running git commit -m “message” .



```
[ec2-user@ip-172-31-87-38 vinay-18]
[ec2-user@ip-172-31-87-38 ~]$ sudo yum install git -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Package git-2.40.1-1.amzn2.0.3.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-87-38 ~]$ git clone https://github.com/vinay18-2/vinay-18.git
Cloning into 'vinay-18'...
Username for 'https://github.com': vinay18-
Password for 'https://vinay18-2@github.com':
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
[ec2-user@ip-172-31-87-38 ~]$ cd vinay-18
[ec2-user@ip-172-31-87-38 vinay-18]$ touch f1 f2
[ec2-user@ip-172-31-87-38 vinay-18]$ ls
f1 f2 README.md
[ec2-user@ip-172-31-87-38 vinay-18]$ git add f1 f2
[ec2-user@ip-172-31-87-38 vinay-18]$ ls
f1 f2 README.md
[ec2-user@ip-172-31-87-38 vinay-18]$ git commit -m "adding files"
[main 6c69fe1] adding files
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 f1
 create mode 100644 f2
[ec2-user@ip-172-31-87-38 vinay-18]$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
[ec2-user@ip-172-31-87-38 vinay-18]$ |
```

- Then push the repo by using git push command than it will ask the username and password, provide that.



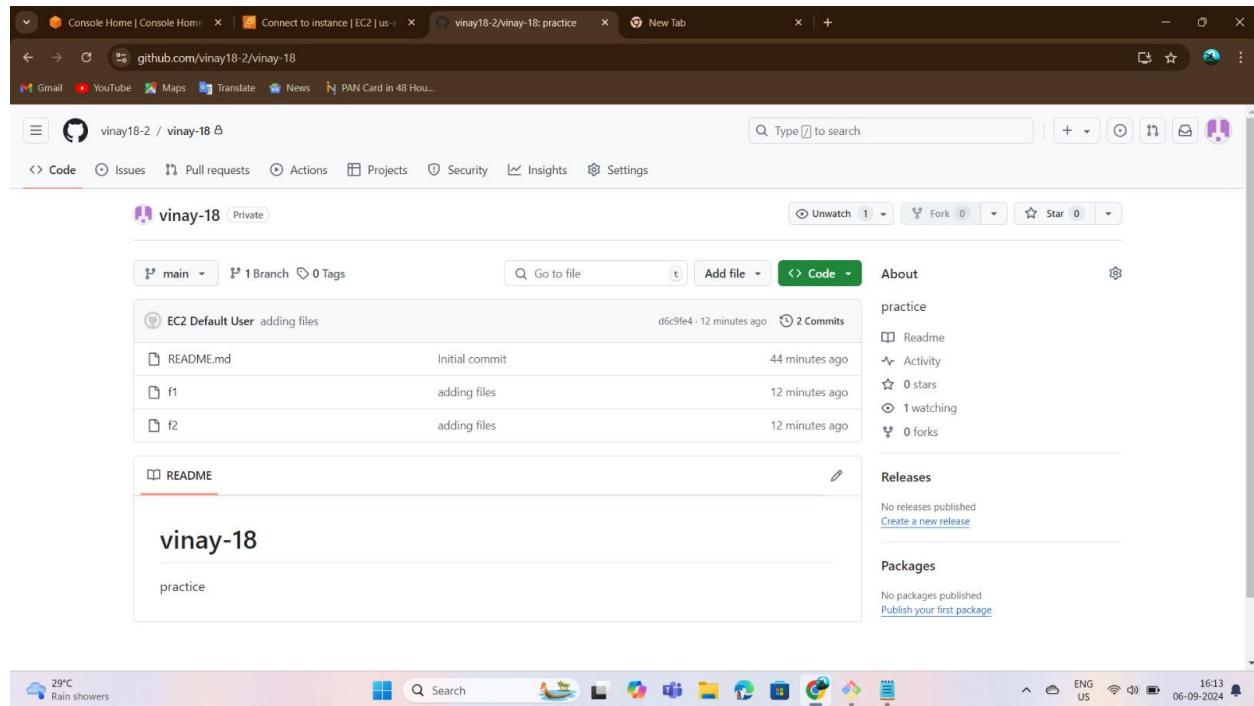
```

[ec2-user@ip-172-31-87-38-vinay-18 ~]
$ git clone https://github.com/vinay18-2
Cloning into 'vinay-18'...
Username for 'https://github.com': vinay18-2
Password for 'https://vinay18-2@github.com':
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
Fetched 3 files in 0.00s
[ec2-user@ip-172-31-87-38-vinay-18 ~]$ cd vinay-18
[ec2-user@ip-172-31-87-38-vinay-18 ~]$ touch f1 f2
[ec2-user@ip-172-31-87-38-vinay-18 ~]$ ls
f1 f2 README.md
[ec2-user@ip-172-31-87-38-vinay-18 ~]$ git add f1 f2
[ec2-user@ip-172-31-87-38-vinay-18 ~]$ git commit -m "adding files"
[main d6c9fe4] adding files
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 f1
 create mode 100644 f2
[ec2-user@ip-172-31-87-38-vinay-18 ~]$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
[ec2-user@ip-172-31-87-38-vinay-18 ~]$ git push
Username for 'https://github.com': vinay18-2
Password for 'https://vinay18-2@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 294 bytes | 294.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/vinay18-2/vinay-18.git
  8a0f6e6..d6c9fe4  main > main
[ec2-user@ip-172-31-87-38-vinay-18 ~] |

```

- Observe the change in the remote repository, we are able to find the new change is that are added files from local.

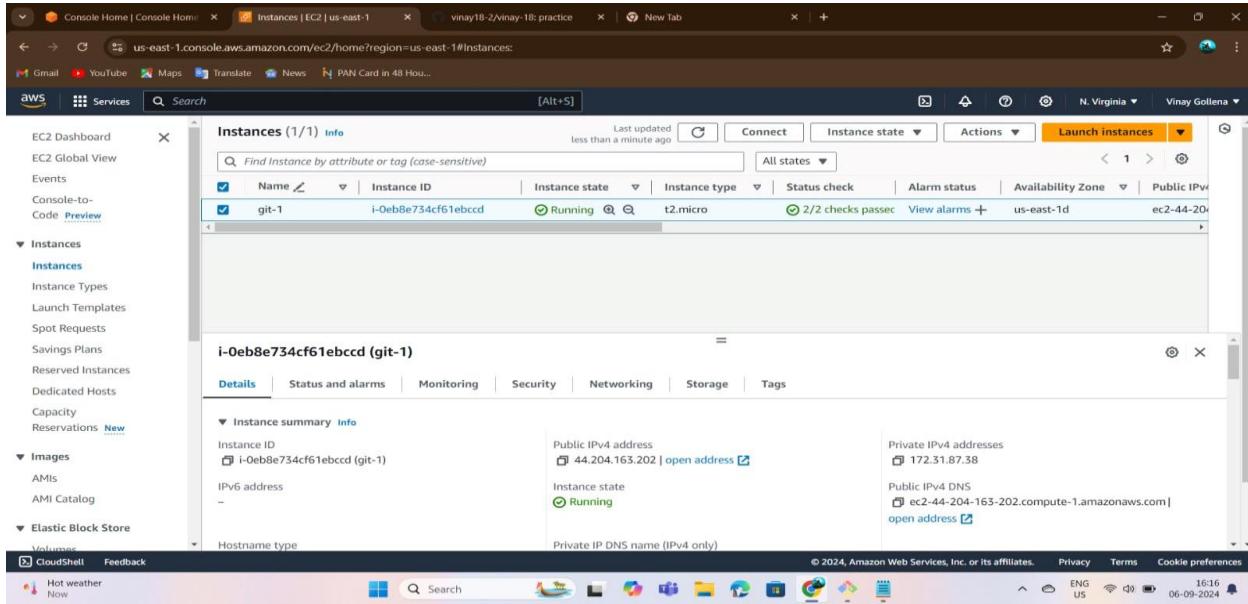


The screenshot shows a GitHub repository page for 'vinay18-2/vinay-18'. The repository is private. The commit history shows two commits from 'EC2 Default User' adding files 'f1' and 'f2'. The repository has 0 stars and 0 forks. There are no releases or packages published.

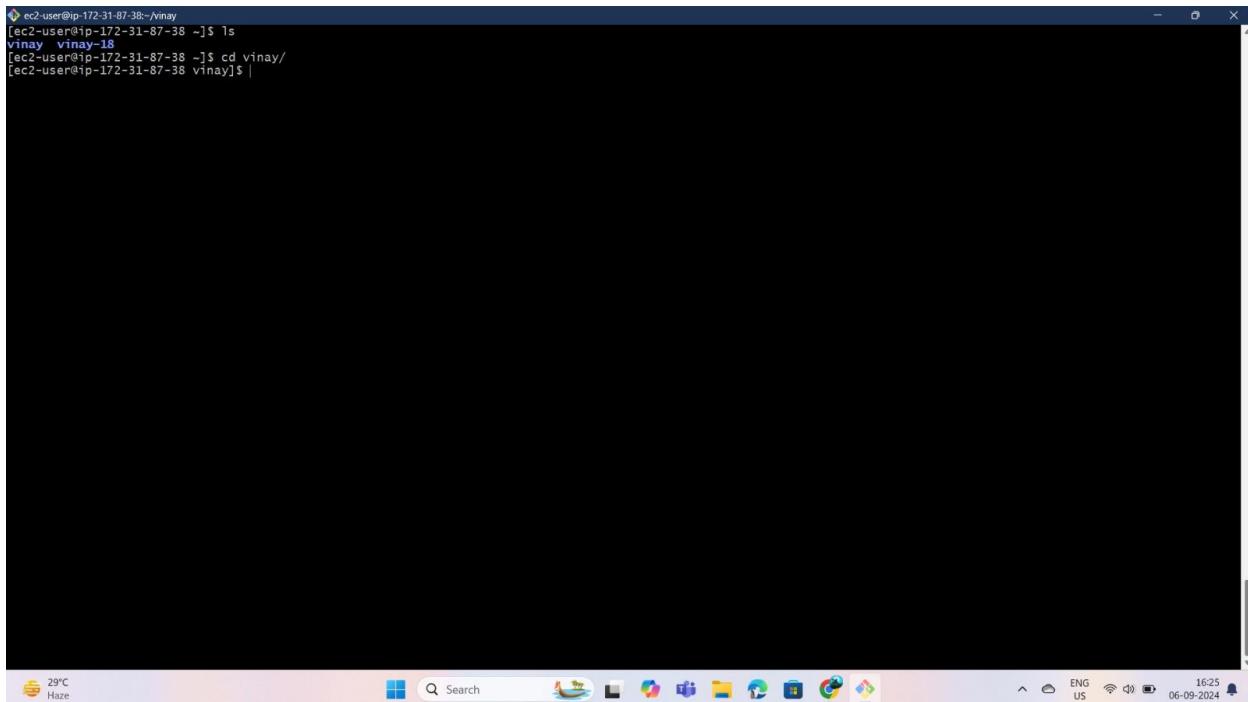
Commit	Message	Time
EC2 Default User	adding files	d6c9fe4 · 12 minutes ago
EC2 Default User	Initial commit	44 minutes ago
EC2 Default User	adding files	12 minutes ago
EC2 Default User	adding files	12 minutes ago

## LAB-5(PUSHING A LOCALLY CREATED REPO TO GITHUB):

- Launch the instance.



- Create one repo in our local machine and initialize.



- Create the repo with same name in the GitHub platform.

Great repository names are short and memorable. Need inspiration? How about [literate-winner](#)?

Description (optional)  
same as local repo

**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:

Add a README file This is where you can write a long description for your project. [Learn more about READMEs](#).

Add .gitignore  
.gitignore template: None Choose which files not to track from a list of templates. [Learn more about ignoring files](#).

Choose a license  
License: None A license tells others what they can and can't do with your code. [Learn more about licenses](#).

You are creating a public repository in your personal account.

**Create repository**

Find a repository... Type Language Sort New

**vinay-18** Private practice Updated 21 minutes ago

**minorproject** Public Updated on May 30

**majorproject** Public Updated on May 30

**NumberGuess** Public Updated on Jul 17, 2023

Vinay Gollena vinay18-2 Edit profile

1 follower · 1 following

- Here the same with the local repo has been created in the GitHub platform.
- Run the command `git branch -m main` (to change the name of the branch)

```
ec2-user@ip-172-31-87-38:~/vinay
[ec2-user@ip-172-31-87-38 ~]$ ls
vinay vinay-18
[ec2-user@ip-172-31-87-38 ~]$ cd vinay/
[ec2-user@ip-172-31-87-38 vinay]$ ls
Vinay
[ec2-user@ip-172-31-87-38 vinay]$ touch file1 file2
[ec2-user@ip-172-31-87-38 vinay]$ ls
file1 file2 Vinay
[ec2-user@ip-172-31-87-38 vinay]$ git branch -m main
[ec2-user@ip-172-31-87-38 vinay]$
```



- Check the git status to check the branch and untracked files.

```
ec2-user@ip-172-31-87-38:~/vinay
[ec2-user@ip-172-31-87-38 ~]$ ls
vinay vinay-18
[ec2-user@ip-172-31-87-38 ~]$ cd vinay/
[ec2-user@ip-172-31-87-38 vinay]$ ls
Vinay
[ec2-user@ip-172-31-87-38 vinay]$ touch file1 file2
[ec2-user@ip-172-31-87-38 vinay]$ ls
file1 file2 Vinay
[ec2-user@ip-172-31-87-38 vinay]$ git branch -m main
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    file1
    file2

nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-87-38 vinay]$ git remote add origin https://github.com/vinay18-2/vinay.git
[ec2-user@ip-172-31-87-38 vinay]$
```



The screenshot shows a browser window with three tabs open: 'Console Home | Console Home', 'Instances | EC2 | us-east-1', and 'vinay18-2/vinay'. The active tab is 'vinay18-2/vinay' at <https://github.com/vinay18-2/vinay>. The page displays instructions for quick setup, including options to 'Set up in Desktop' or use 'HTTPS' or 'SSH'. It also provides command-line examples for creating a new repository or pushing an existing one.

```

Quick setup — if you've done this kind of thing before
[Set up in Desktop] or [HTTPS] [SSH] https://github.com/vinay18-2/vinay.git

...or create a new repository on the command line
echo "# vinay" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/vinay18-2/vinay.git
git push -u origin main

...or push an existing repository from the command line
git remote add origin https://github.com/vinay18-2/vinay.git
git branch -M main
git push -u origin main

```

**ProTip!** Use the URL for this page when adding GitHub as a remote.



- Run the commands `git remote add origin <URL>`
- Run the command `git push -u origin main` (to push your local branch to remote repo)

The terminal window shows the following session:

```

[ec2-user@ip-172-31-87-38 ~]$ ls
[ec2-user@ip-172-31-87-38 ~]$ cd vinay
[ec2-user@ip-172-31-87-38 vinay]$ ls
vinay
[ec2-user@ip-172-31-87-38 vinay]$ touch file1 file2
[ec2-user@ip-172-31-87-38 vinay]$ ls
file1  file2
[ec2-user@ip-172-31-87-38 vinay]$ git branch -m main
[ec2-user@ip-172-31-87-38 vinay]$ git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    file1
    file2

nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-87-38 vinay]$ git remote add origin https://github.com/vinay18-2/vinay.git
[ec2-user@ip-172-31-87-38 vinay]$ git push -u origin main https://github.com/vinay18-2/vinay.git
fatal: invalid refspec 'https://github.com/vinay18-2/vinay.git'
[ec2-user@ip-172-31-87-38 vinay]$ git push -u origin main
Username for 'https://github.com': vinay18-2
Password for 'https://vinay18-2@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 228 bytes | 228.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/vinay18-2/vinay.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
[ec2-user@ip-172-31-87-38 vinay]$ 

```

The taskbar at the bottom shows the date and time as 06-09-2024, 16:39. It includes icons for battery level (29°C Haze), network, volume, and system notifications.

## Pushing completed

The screenshot shows a web browser window with multiple tabs open. The active tab is for a GitHub repository named 'vinay18-2/vinay'. The repository has one branch ('main') and one commit ('adding file' by 'EC2 Default User'). There is a section to 'Add a README'.

**About**  
same as local repo  
Activity  
0 stars  
1 watching  
0 forks

**Releases**  
No releases published  
Create a new release

**Packages**  
No packages published  
Publish your first package

**Code** | **Issues** | **Pull requests** | **Actions** | **Projects** | **Wiki** | **Security** | **Insights** | **Settings**

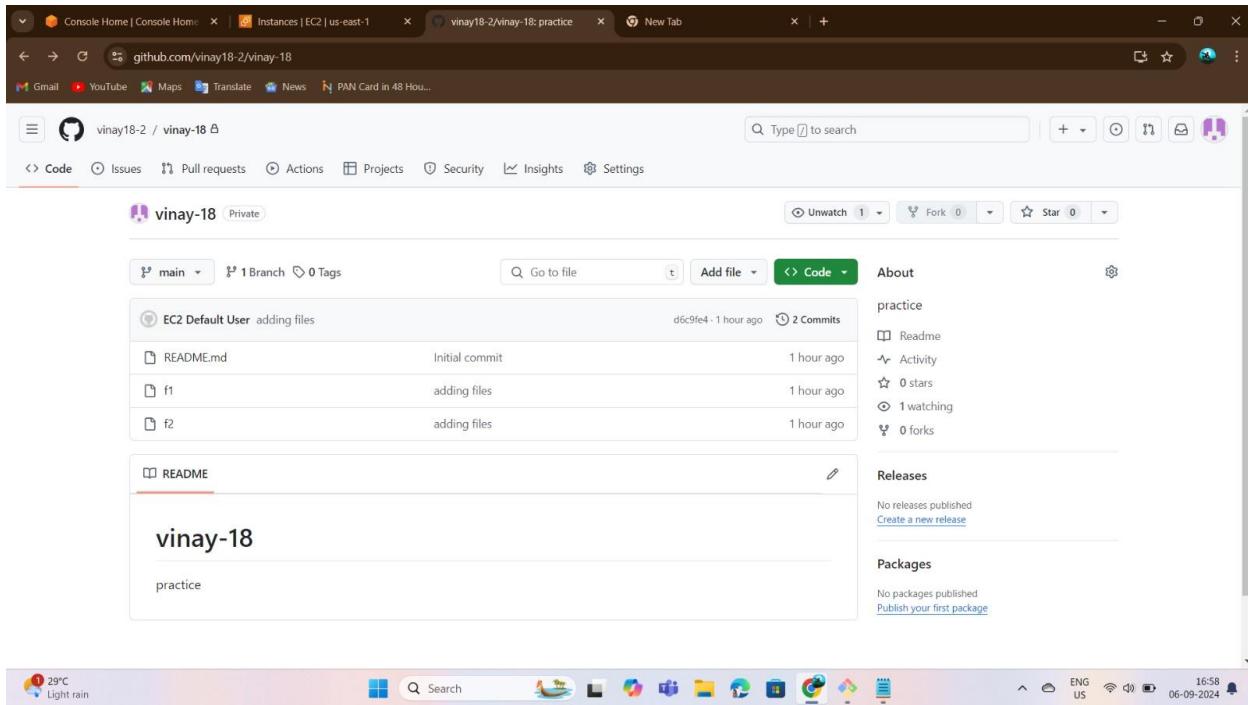
29°C Haze

Search

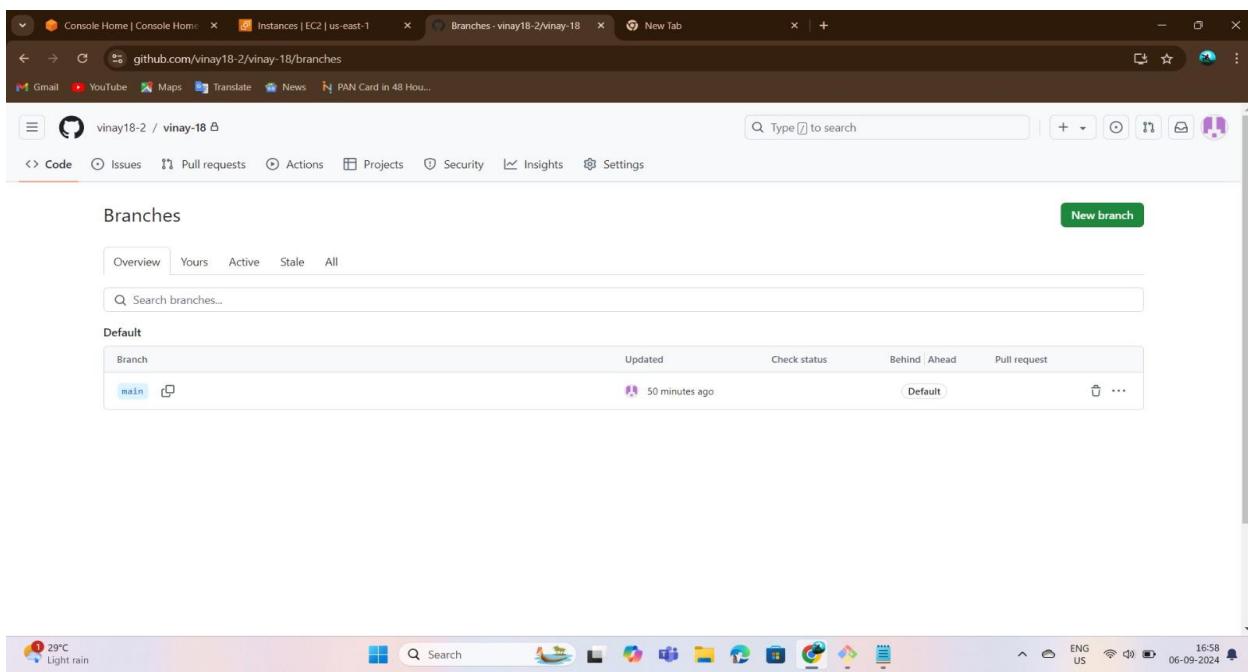
16:40 06-09-2024

## LAB-6(CREATING A NEW BRANCH FROM YOUR MAIN BRANCH):

- Go to the repo at the place of main and click on the branch dropdown



- Type the name of your new branch that you want to create and click on the create button a new branch will created for you.



Branches

New branch

Overview Yours Active Stale All

Search branches...

Default

Branch	Updated	Check status	Behind / Ahead	Pull request
main	50 minutes ago	Default	...	

Your branches

Branch	Updated	Check status	Behind / Ahead	Pull request
master	now	0   0	...	

Active branches

Branch	Updated	Check status	Behind / Ahead	Pull request
master	now	0   0	...	

Heavier rain In about 1 hour

© 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information

ENG US 06-09-2024 16:58

Console Home | Instances | EC2 us-east-1 | Branches - vinay18-2/vinay-18 | New Tab

github.com/vinay18-2/vinay-18/tree/master

Gmail YouTube Maps Translate News PAN Card in 48 Hou...

vinay18-2 / vinay-18

Type to search

Code Issues Pull requests Actions Projects Security Insights Settings

vinay-18 Private

Unwatch 1 Fork 0 Star 0

master 2 Branches 0 Tags

Go to file Add file Code

This branch is up to date with main.

Contribute

EC2 Default User adding files d6c9fe4 · 1 hour ago 2 Commits

README.md Initial commit 1 hour ago

f1 adding files 1 hour ago

f2 adding files 1 hour ago

README

vinay-18

practice

About

- practice
- Readme
- Activity
- 0 stars
- 1 watching
- 0 forks

Releases

No releases published Create a new release

Packages

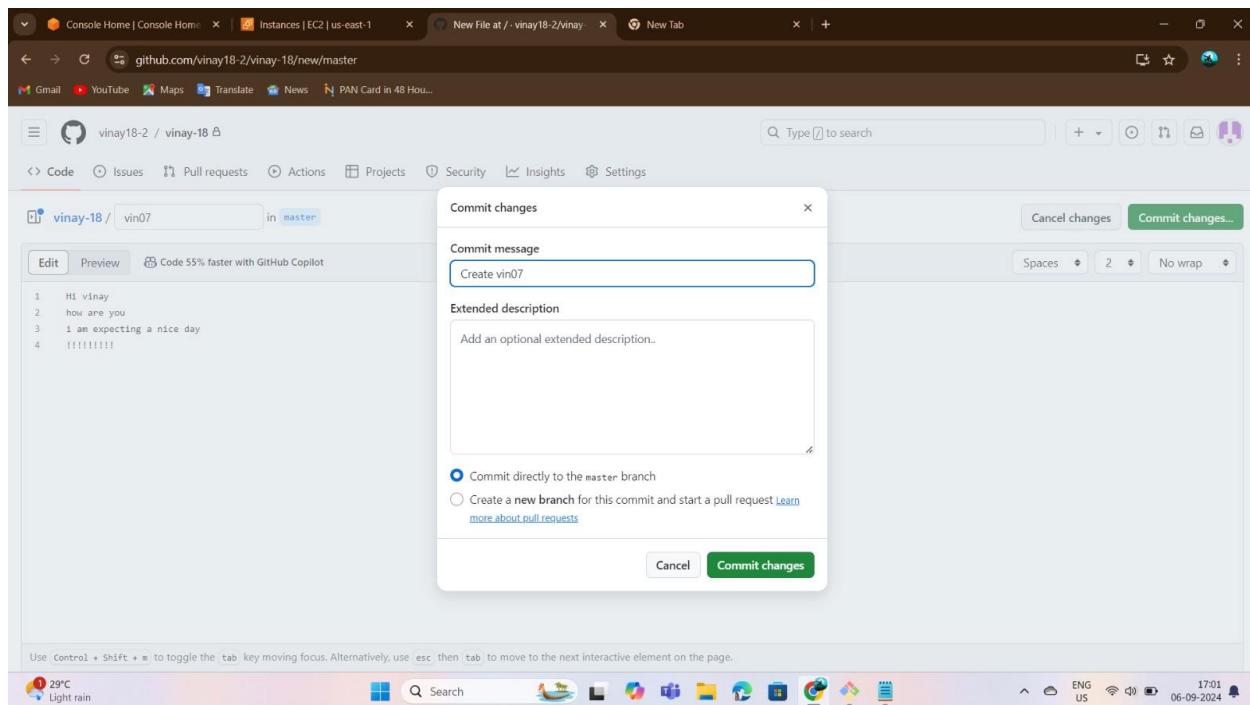
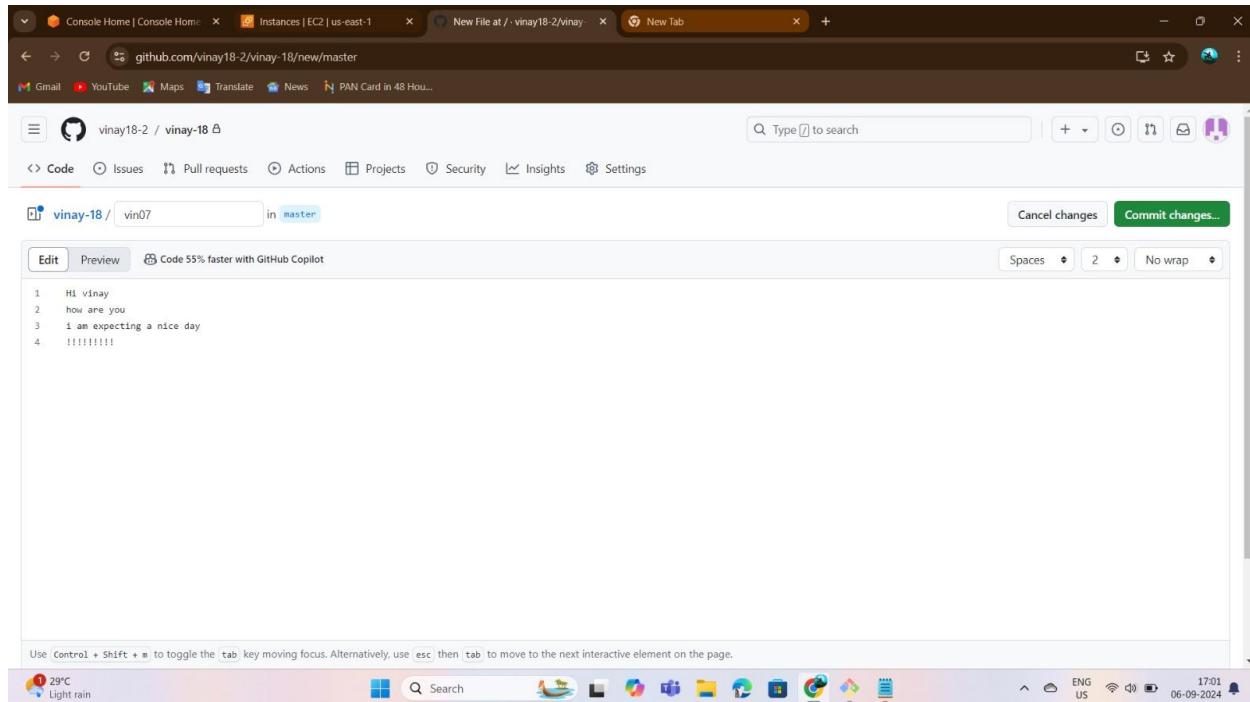
No packages published Publish your first package

Heavier rain In about 1 hour

Search

ENG US 06-09-2024 16:59

Make some changes in this branch directly from the console



Here you will see that your changes are only applied to your new branch but not to the main branch.

The screenshot displays two GitHub repository pages side-by-side, both titled "vinay-18".

**Top Repository (vinay-18):**

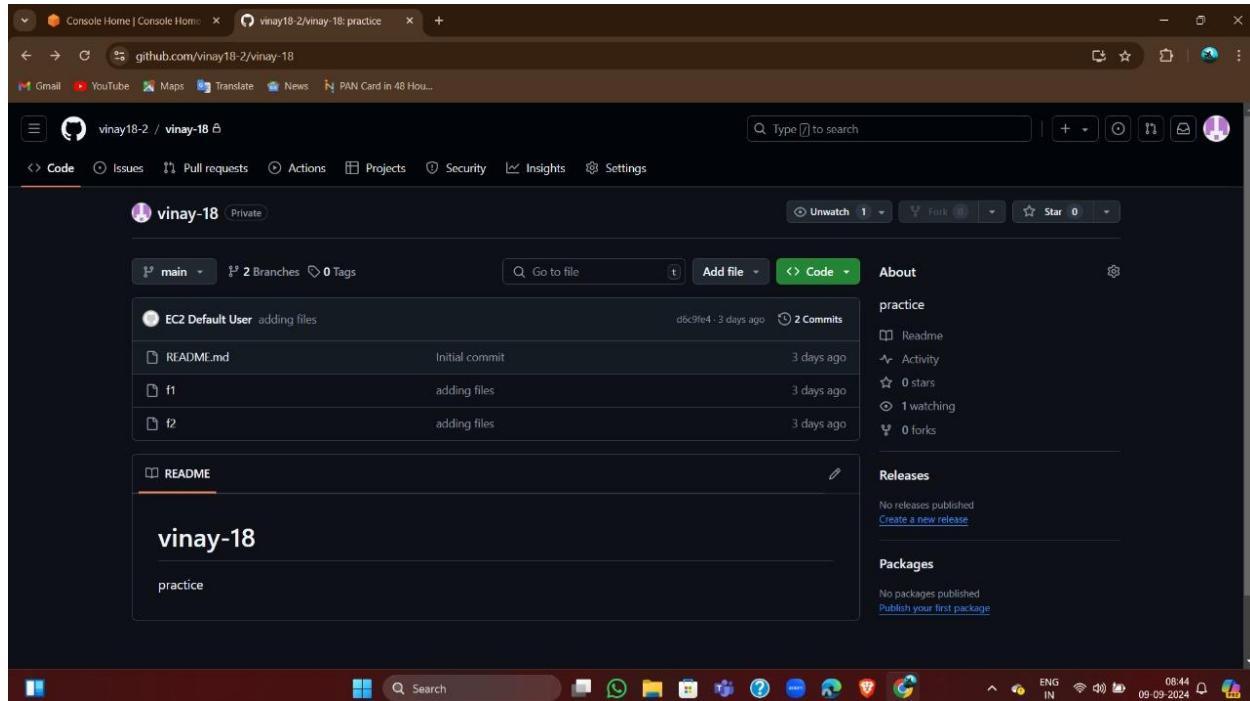
- Branch:** master
- Commits:**
  - vinay18-2 Create vin07 (d18f4f4 - now)
  - This branch is 1 commit ahead of main.
  - Initial commit (README.md, 1 hour ago)
  - adding files (f1, 1 hour ago)
  - adding files (f2, 1 hour ago)
  - Create vin07 (vin07, now)
- README.md:** vinay-18

**Bottom Repository (vinay-18:practice):**

- Branch:** master
- Recent Activity:** master had recent pushes 13 seconds ago
- Commits:**
  - EC2 Default User adding files (d6c9fe4 - 1 hour ago)
  - Initial commit (README.md, 1 hour ago)
  - adding files (f1, 1 hour ago)
  - adding files (f2, 1 hour ago)
- README:** vinay-18
- Repository Details:**
  - About: practice
  - Readme
  - Activity
  - 0 stars
  - 1 watching
  - 0 forks
  - Releases: No releases published. Create a new release
  - Packages: No packages published. Publish your first package

## LAB 7- PULL ALL THE BRANCHES IN YOUR LOCAL MACHINE

- Go to your local repo machine where you have the copy of your remote branch



- Run the command “git pull” to pull all the new changes such as branches from the remote location

```
ec2-user@ip-172-31-31-203:~/vinay-18
The authenticity of host 'ec2-34-227-52-69.compute-1.amazonaws.com (64:ff9b::22e3:3445)' can't be established.
ED25519 key fingerprint: ecdsa-sha256-hmac-sha256-ssh-rsa SHA256:UdddcGQzvPMdbr8a/Vxuo0xvV14I.
This host key is known by the following other host(s):
    /etc/ssh/known_hosts:54: ec2-34-204-51-207.compute-1.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-34-227-52-69.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
Last login: Sun Sep  8 18:22:55 2024 from 152.59.197.9
[ec2-user@ip-172-31-31-203 ~]$ cd vinay-18
[ec2-user@ip-172-31-31-203 vinay-18]$ ls
[ec2-user@ip-172-31-31-203 vinay-18]$ git status
On branch main
Your branch is up-to-date with 'origin/main'.
nothing to commit, working tree clean
[ec2-user@ip-172-31-31-203 vinay-18]$ git pull
fatal: not a git repository (or any of the parent directories): .git
[ec2-user@ip-172-31-31-203 ~]$ sudo git pull
fatal: not a git repository (or any of the parent directories): .git
[ec2-user@ip-172-31-31-203 ~]$ ls
[ec2-user@ip-172-31-31-203 ~]$ git branch
* main
[ec2-user@ip-172-31-31-203 ~]$ cd vinay/
[ec2-user@ip-172-31-31-203 vinay]$ ls
[ec2-user@ip-172-31-31-203 vinay]$ git checkout master
error: pathspec 'master' did not match any file(s) known to git
[ec2-user@ip-172-31-31-203 vinay]$ cd
[ec2-user@ip-172-31-31-203 ~]$ git clone https://github.com/vinay18-2/vinay-18.git
cloning into 'vinay-18...'...
Username for 'https://github.com': vinay18-
Password for 'https://vinay18-2@github.com':
remote: Enumerating objects: 9, done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 9 (delta 1), reused 2 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (9/9), done.
Resolving deltas: 100% (1/1), done.
[ec2-user@ip-172-31-31-203 ~]$ ls
vinay vinay-18
[ec2-user@ip-172-31-31-203 ~]$ cd vinay-18/
[ec2-user@ip-172-31-31-203 vinay-18]$ ls
[ec2-user@ip-172-31-31-203 vinay-18]$ git pull
Username for 'https://github.com': vinay-18
Password for 'https://vinay-18@github.com':
Already up to date.
[ec2-user@ip-172-31-31-203 vinay-18]$
```

- Run the command "git branch -a" to list down all the branches
  - The branch which starts with remote/are the remote branches
  - The branch without remotes they are available on your local copy as well

```

ec2-user@ip-172-31-31-203:~/vinay-18
~/my/
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-172-31-31-203 ~]$ git pull
fatal: not a git repository (or any of the parent directories): .git
[ec2-user@ip-172-31-31-203 ~]$ sudo git pull
fatal: not a git repository (or any of the parent directories): .git
[ec2-user@ip-172-31-31-203 ~]$ ls
vinay
[ec2-user@ip-172-31-31-203 ~]$ git branch
* main
[ec2-user@ip-172-31-31-203 ~]$ git checkout main
Your branch is up to date with 'origin/main'.
[ec2-user@ip-172-31-31-203 ~]$ git checkout master
error: pathspec 'master' did not match any file(s) known to git
[ec2-user@ip-172-31-31-203 ~]$ cd
[ec2-user@ip-172-31-31-203 ~]$ git clone https://github.com/vinay18-2/vinay-18.git
Cloning into 'vinay-18...'...
Username for 'https://github.com': vinay18-
Password for 'https://vinay18-2@github.com':
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (9/9), done.
Resolving deltas: 100% (1/1), done.
[ec2-user@ip-172-31-31-203 ~]$ ls
vinay
[ec2-user@ip-172-31-31-203 ~]$ cd vinay-18/
[ec2-user@ip-172-31-31-203 vinay-18]$ ls
f1 f2 README.md
[ec2-user@ip-172-31-31-203 vinay-18]$ git pull
Username for 'https://github.com': vinay-18
Password for 'https://vinay-18@github.com':
Already up to date.
[ec2-user@ip-172-31-31-203 vinay-18]$ ls
f1 f2 README.md
[ec2-user@ip-172-31-31-203 vinay-18]$ git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/master
[ec2-user@ip-172-31-31-203 vinay-18]$ git checkout master
branch 'master' set up to track 'origin/master'.
Switched to a new branch 'master'.
[ec2-user@ip-172-31-31-203 vinay-18]$ git branch -a
* master
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/master
[ec2-user@ip-172-31-31-203 vinay-18]$ touch vin1 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    vin1
    vin2

nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-31-203 vinay-18]$ git add vin1 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ git add vin1 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore <file>..." to unstage)
    new file:   vin1
    new file:   vin2

[ec2-user@ip-172-31-31-203 vinay-18]$ git ncommit -m "adding files"
git: ncommit is not a git command. See 'git --help'.

The most similar command is

[ec2-user@ip-172-31-31-203 vinay-18]$ git commit -m "adding files"
[master 0b88f11] adding files
 1 commits [C2 default] from ec2-user@ip-172-31-31-203.ec2.internal>
Your user 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 to let Git know how to ask for your identity in the future:
git config --global --edit

After doing this, you may fix the identity used for this commit with:
  git commit --amend --reset-author

2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 vin1
create mode 100644 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ 
```

- Checkout to the feature branch or the branch or the branch that you created  
Git checkout <branch name>
- Make sure that you are on the new branch by running git status or git branch command

```

ec2-user@ip-172-31-31-203:~/vinay-18
~/my/
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-172-31-31-203 ~]$ git checkout master
branch 'master' set up to track 'origin/master'.
Switched to a new branch 'master'.
[ec2-user@ip-172-31-31-203 ~]$ git branch -a
* master
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/master
[ec2-user@ip-172-31-31-203 vinay-18]$ touch vin1 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore <file>..." to unstage)
    new file:   vin1
    new file:   vin2

nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-31-203 vinay-18]$ git add vin1 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore <file>..." to unstage)
    new file:   vin1
    new file:   vin2

[ec2-user@ip-172-31-31-203 vinay-18]$ git commit -m "adding files"
[master 0b88f11] adding files
 1 commits [C2 default] from ec2-user@ip-172-31-31-203.ec2.internal>
Your user 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 to let Git know how to ask for your identity in the future:
git config --global --edit

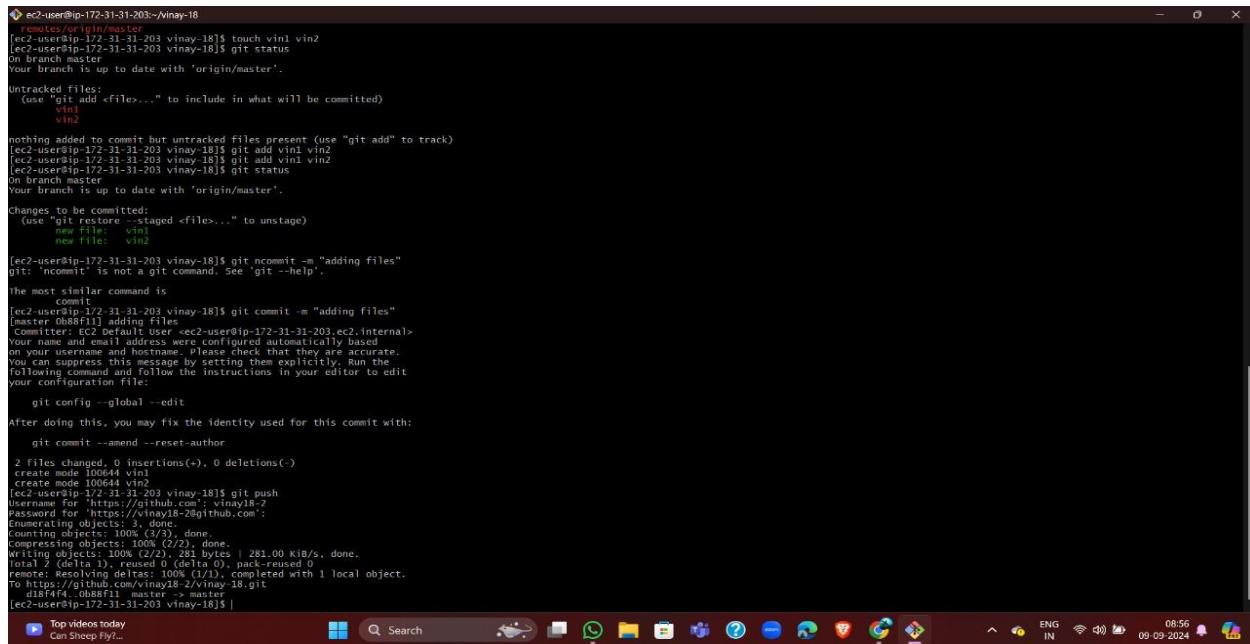
After doing this, you may fix the identity used for this commit with:
  git commit --amend --reset-author

2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 vin1
create mode 100644 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ 
```

Above image shows that files are added using touch command.

Here are the commands used to push the files into local repository

- Git status
- Git add <filename>
- Git commit –m “<msg>”
- Git push



```
ec2-user@ip-172-31-31-203:~/vinay-18
[remotes/origin/master]
[ec2-user@ip-172-31-31-203 vinay-18]$ touch vin1 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    vin1
    vin2

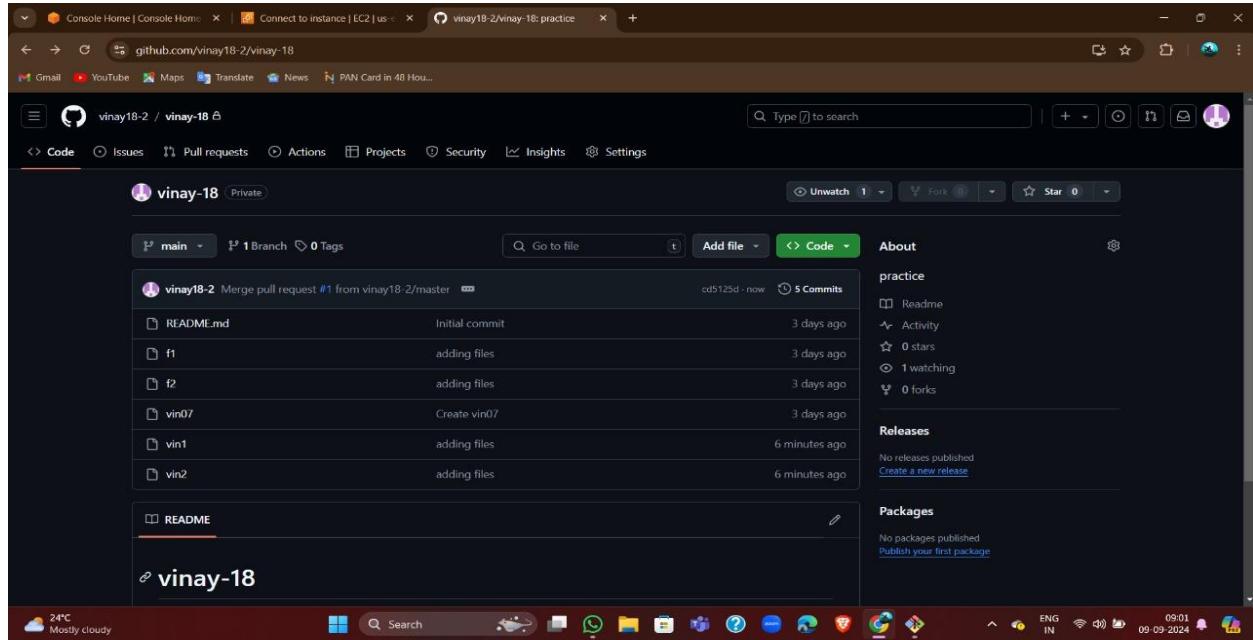
nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-31-203 vinay-18]$ git add vin1 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   vin2

[ec2-user@ip-172-31-31-203 vinay-18]$ git commit -m "adding files"
git: 'incommit' is not a git command. See 'git --help'.
The most similar command is
  commit
[ec2-user@ip-172-31-31-203 vinay-18]$ git commit -m "adding files"
[master 0b8f811] adding files
  Committed by: EC2 User [ec2-user@ip-172-31-31-203 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 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
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 vin1
create mode 100644 vin2
[ec2-user@ip-172-31-31-203 vinay-18]$ git push
Username for 'https://github.com': vinay18-7
Password for 'https://vinay18-7@github.com':
Counting objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 281 bytes | 281.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/vinay18-7/vinay-18.git
 d1bf4fa...ub8f811 master -> master
[ec2-user@ip-172-31-31-203 vinay-18]$ |
```

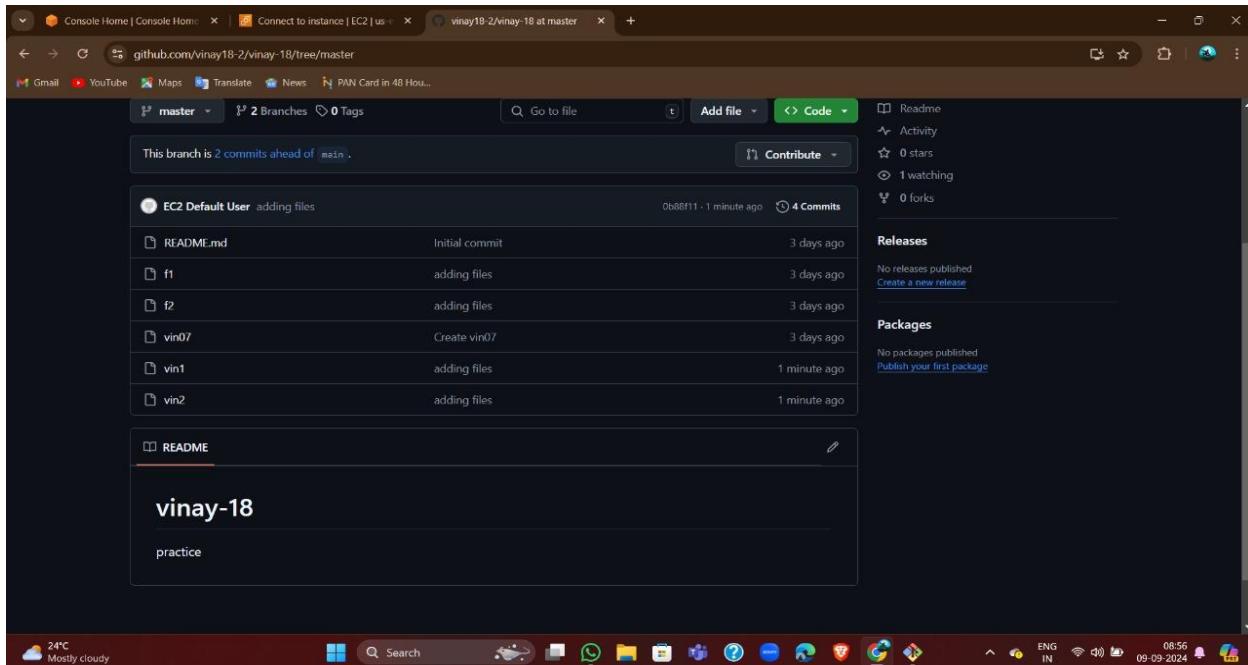
Go to your git hub portal once again

- Here see that the new changes are only available in your feature branch but not in the main branch.

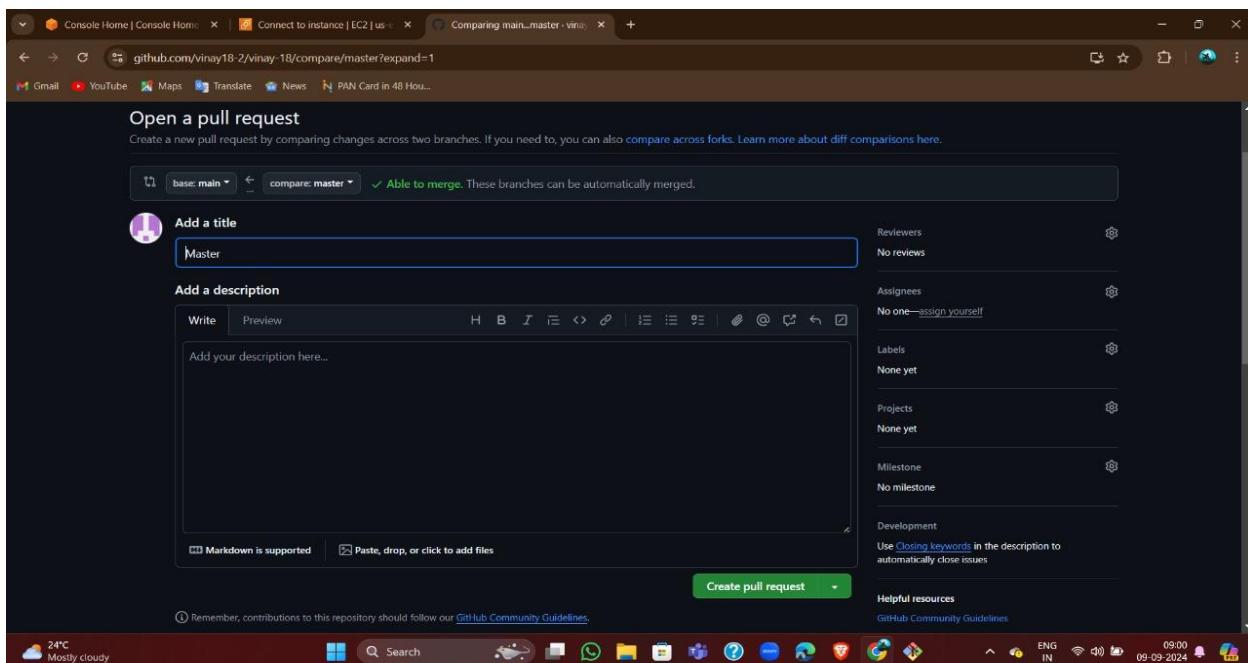


## LAB 8 - MERGE OUR FEATURE BRANCH WITH MAIN BRANCH

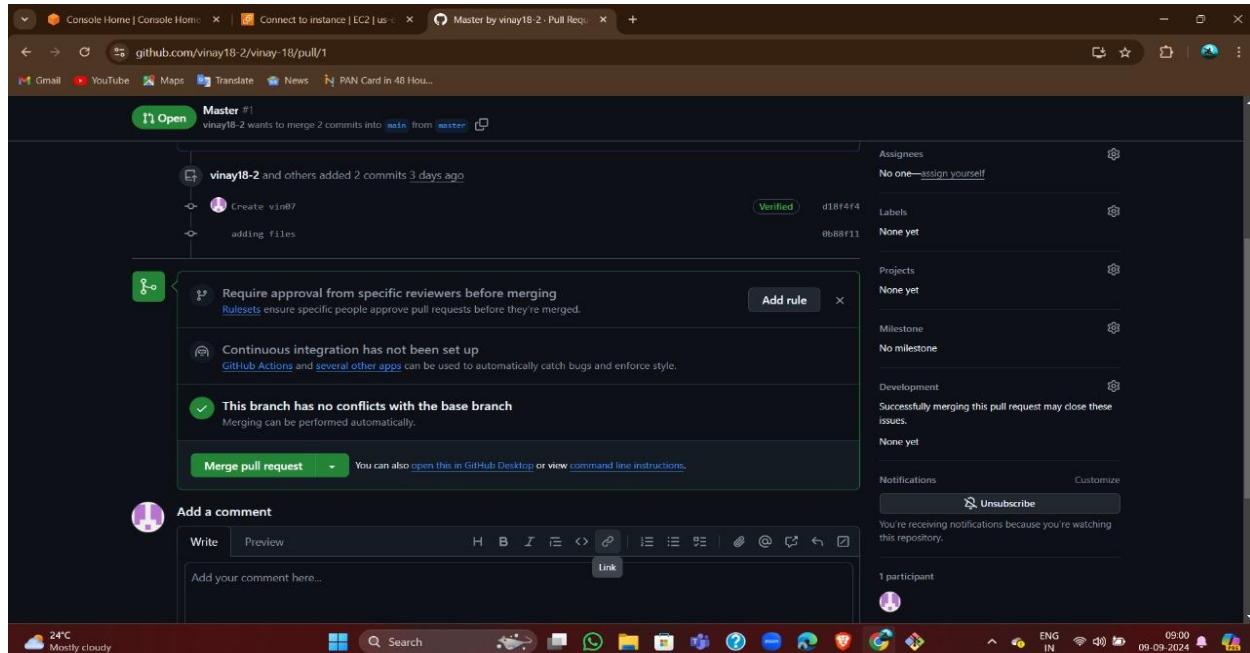
- Go to your git hub repo check the changes in your feature branch.



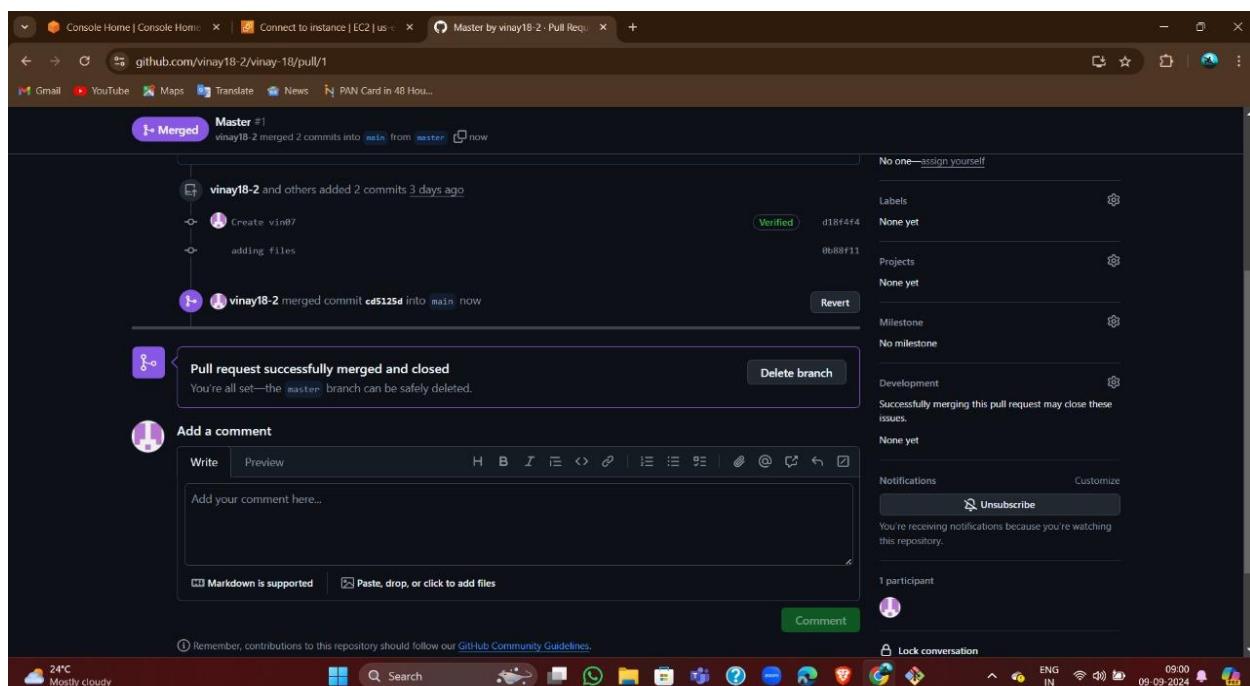
- Go to the pull request tab and click on create pull request
- Put your main branch and the feature branch in the request blocks



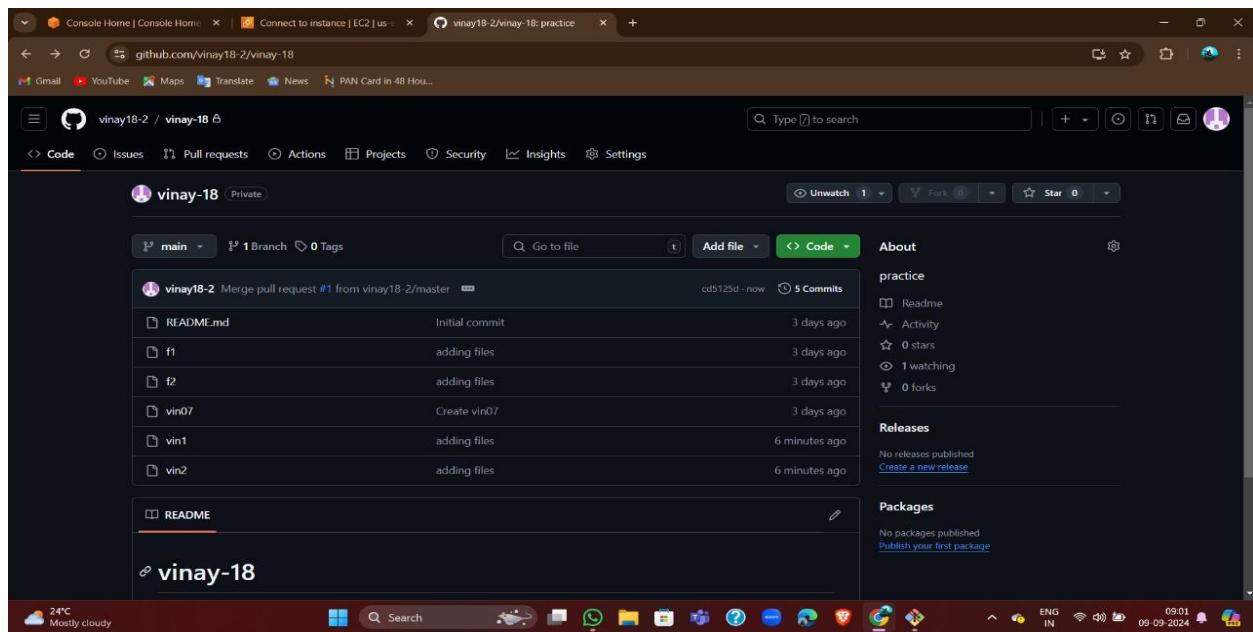
- Click on the create pull request and it will ask for a comment just click again on pull request
- Go to pull request tab once again and click on the pull request available there



Click on review changes and then merge.

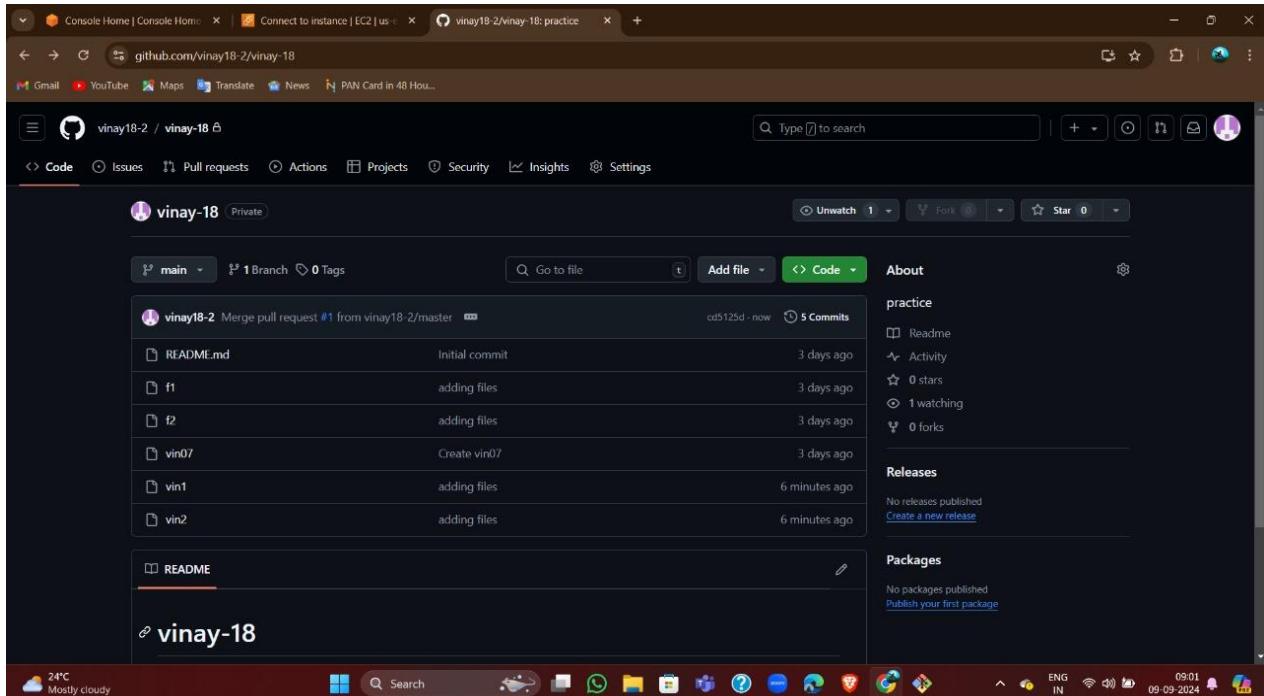


- Once done you can delete this feature branch if required or u can simply ignore it
- Go to your code in main branch and see the changes are now visible here



## LAB 9 - GO TO LOCAL MACHINE

- Go to your local machine where you have the copy of your remote repo



- Checkout to the main branch  
Git checkout<branch name>
- Now run the command “git pull” to all the new changes such as branches from remote location

```
ec2-user@ip-172-31-31-203:~/vinay-18
[ec2-user@ip-172-31-31-203 vinay-18]$ cd
[ec2-user@ip-172-31-31-203 ~]$ cd vinay-18
[ec2-user@ip-172-31-31-203 vinay-18]$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
[ec2-user@ip-172-31-31-203 vinay-18]$ git pull
Username for 'https://github.com': vinay18-2
Password for 'https://vinay18-2@github.com':
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (From 0)
remote: Compressing objects: 100% (1/1), done.
remote: Writing objects: 100% (1/1), 894.00 KiB/s, done.
remote: 1 files changed, 4 insertions(+)
create mode 100644 f1
create mode 100644 f2
create mode 100644 vin07
[ec2-user@ip-172-31-31-203 vinay-18]$ |
```

- Here see that the new changes are only available in main branch.

