

3 Nov 2024

AGENDA – github login

1) Go to github site and click on create new repository

New repository

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
[Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner *

GauravRajSingh99

Repository name *

First git 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.

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

Description (optional)

First git repo

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: Terraform

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.](#)

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: Terraform

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

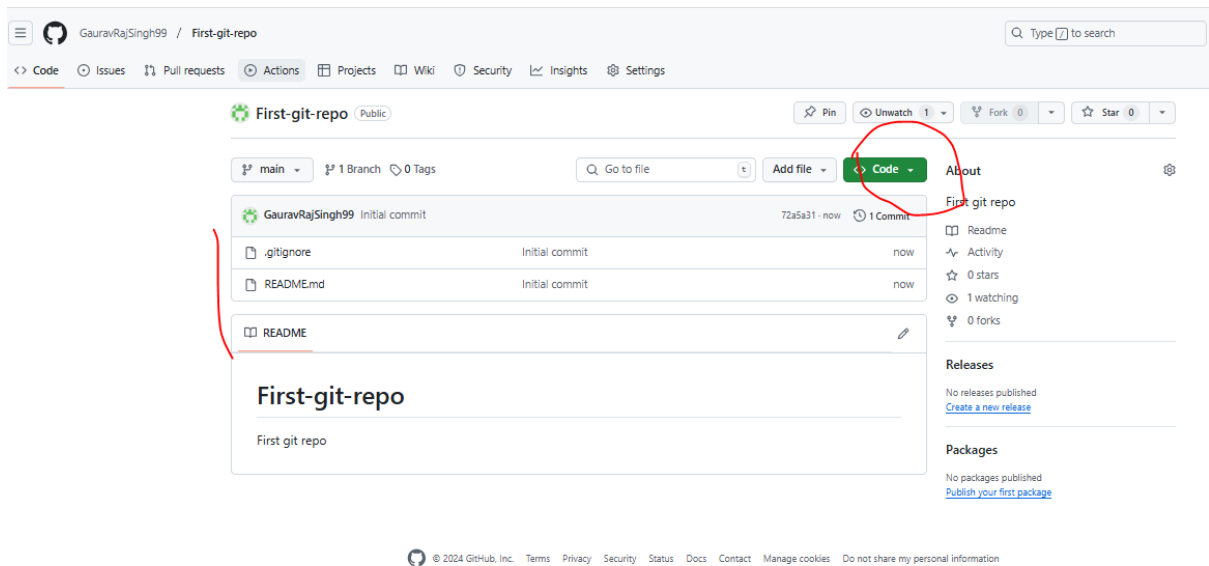
License: None

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set `main` as the default branch. Change the default name in your [settings](#).

You are creating a public repository in your personal account.

Create repository



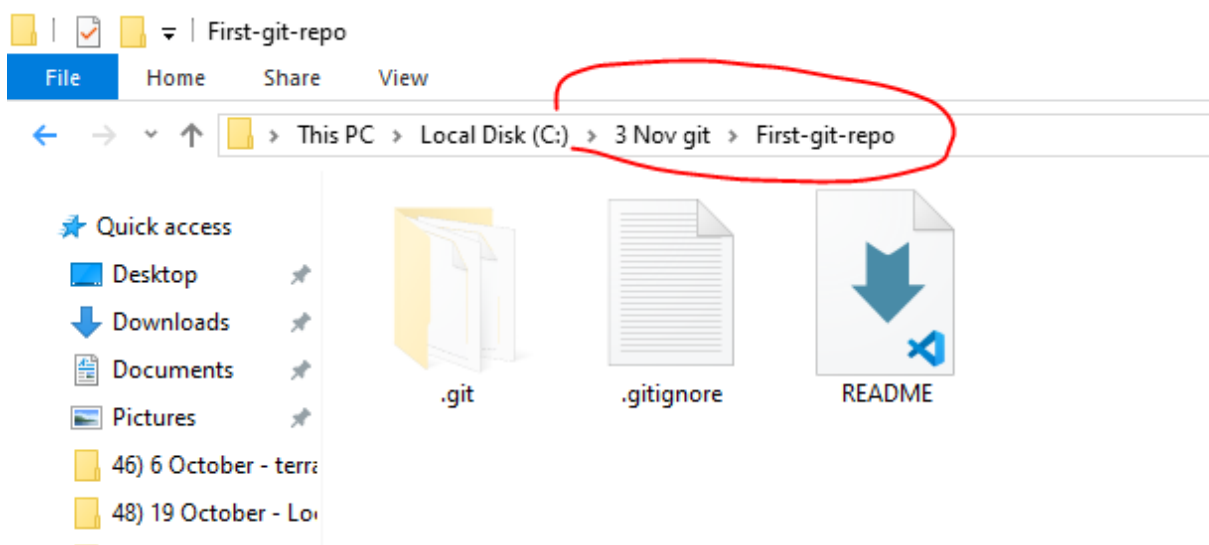
2) Create folder "3 Nov git" and open it in cmd and do git clone created repo on github

git clone <https://github.com/GauravRajSingh99/First-git-repo.git>

```
Microsoft Windows [Version 10.0.19045.5131]
(c) Microsoft Corporation. All rights reserved.

C:\3 Nov git>git clone https://github.com/GauravRajSingh99/First-git-repo.git
Cloning into 'First-git-repo'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (4/4), done.

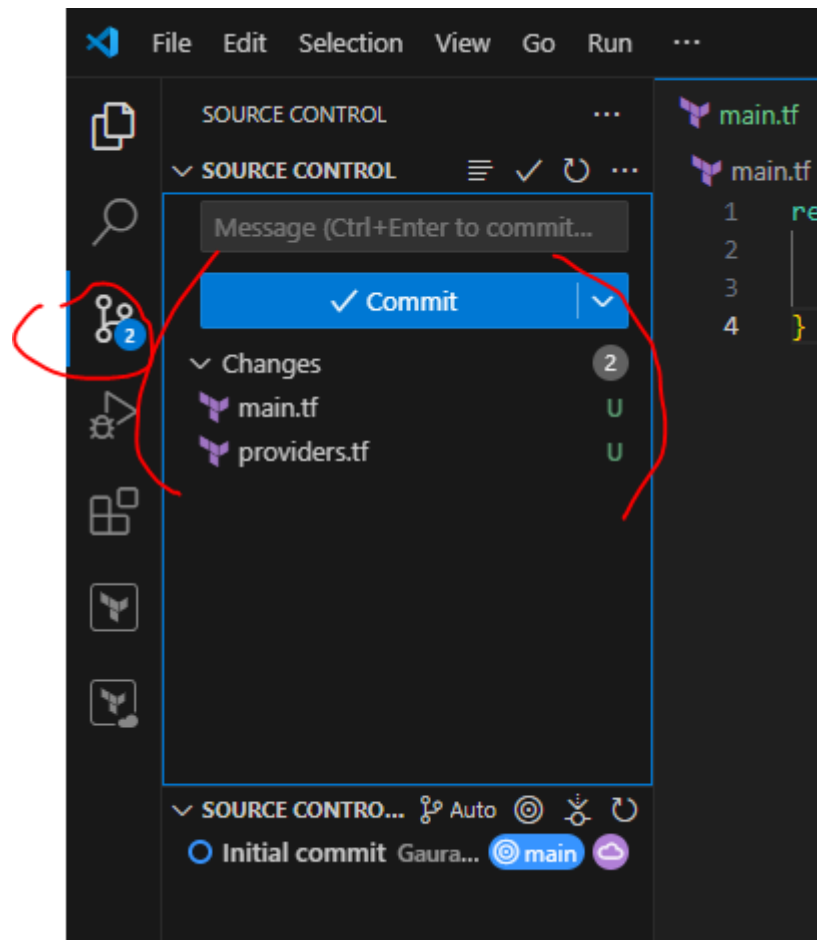
C:\3 Nov git>
```

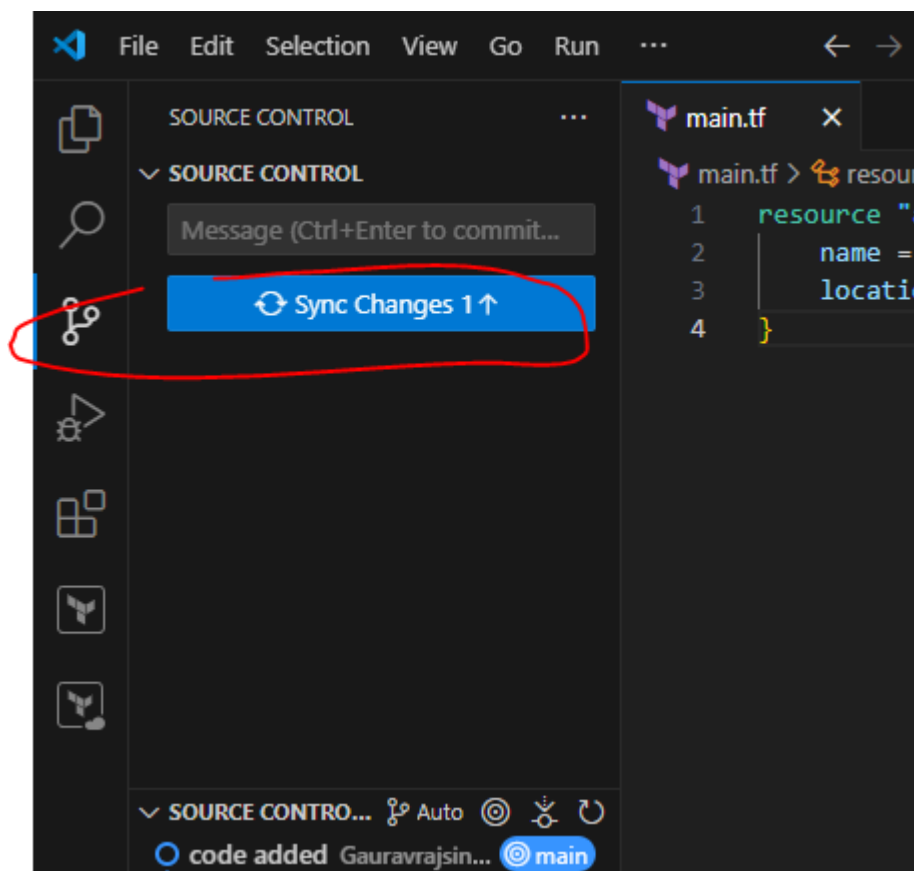
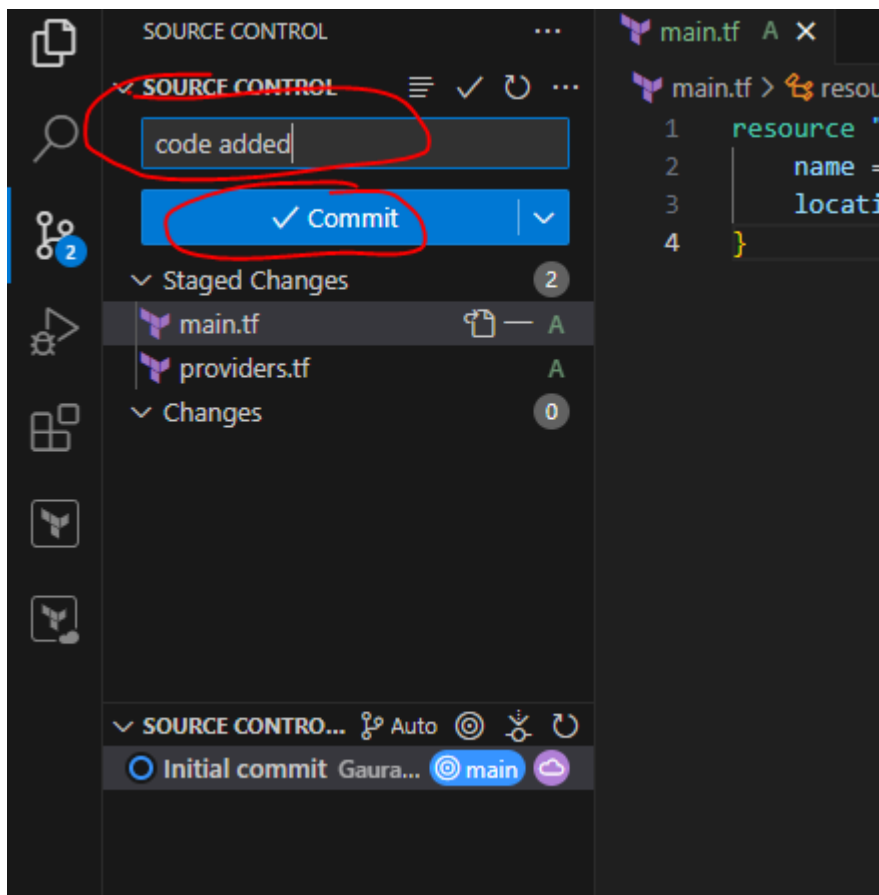


3) Open this folder with vs code

4) Create main.tf and providers.tf file and add codes into it

5) In vscode, we have source control option using which we can check the recent done changes and do git add ., git commit and git push all using it





6) Refresh git hub page

ChatGPT x GauravRajSingh99/First-git-repo x azurem_resource_group | Reso x +

github.com/GauravRajSingh99/First-git-repo

GauravRajSingh99 / First-git-repo

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

First-git-repo Public

main 1 Branch 0 Tags

Go to file Add file <> Code

Gauravrajsingh code added 790bc82 · 3 minutes ago 2 Commits

.gitignore	Initial commit	40 minutes ago
README.md	Initial commit	40 minutes ago
main.tf	code added	3 minutes ago
providers.tf	code added	3 minutes ago

README

First-git-repo

First git repo

About First Fir
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7) We can see no of commits done using git log command as well as on git hub.

First-git-repo Public

main 1 Branch 0 Tags

Go to file Add file <> Code

Gauravrajsingh code added 790bc82 · 11 minutes ago 2 Commits

.gitignore	Initial commit	49 minutes ago
README.md	Initial commit	49 minutes ago
main.tf	code added	11 minutes ago
providers.tf	code added	11 minutes ago

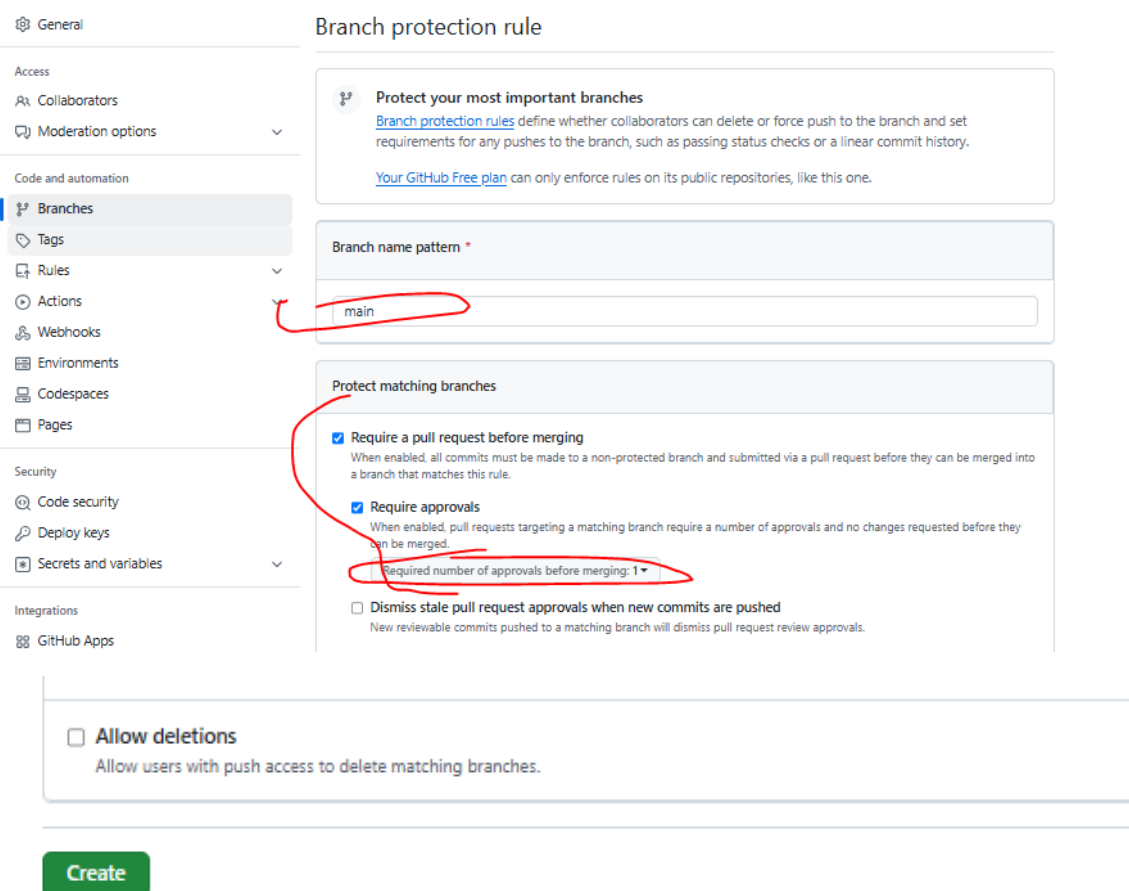
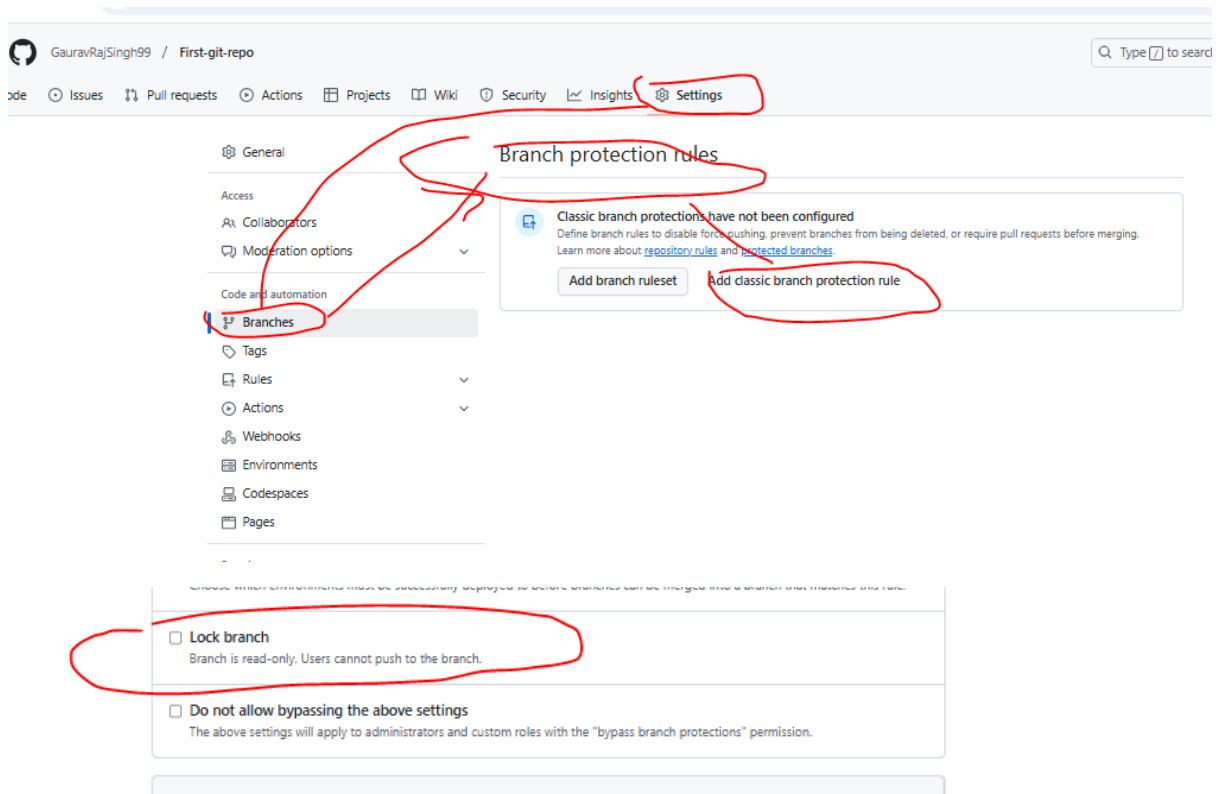
README

First-git-repo

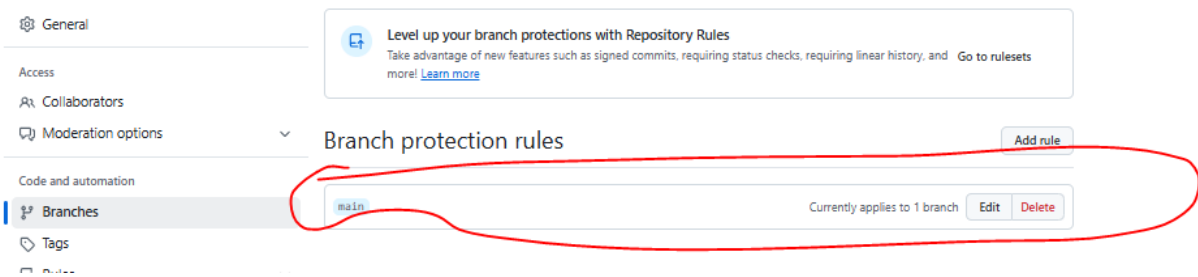
First git repo

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AGENDA – Lock on main branch

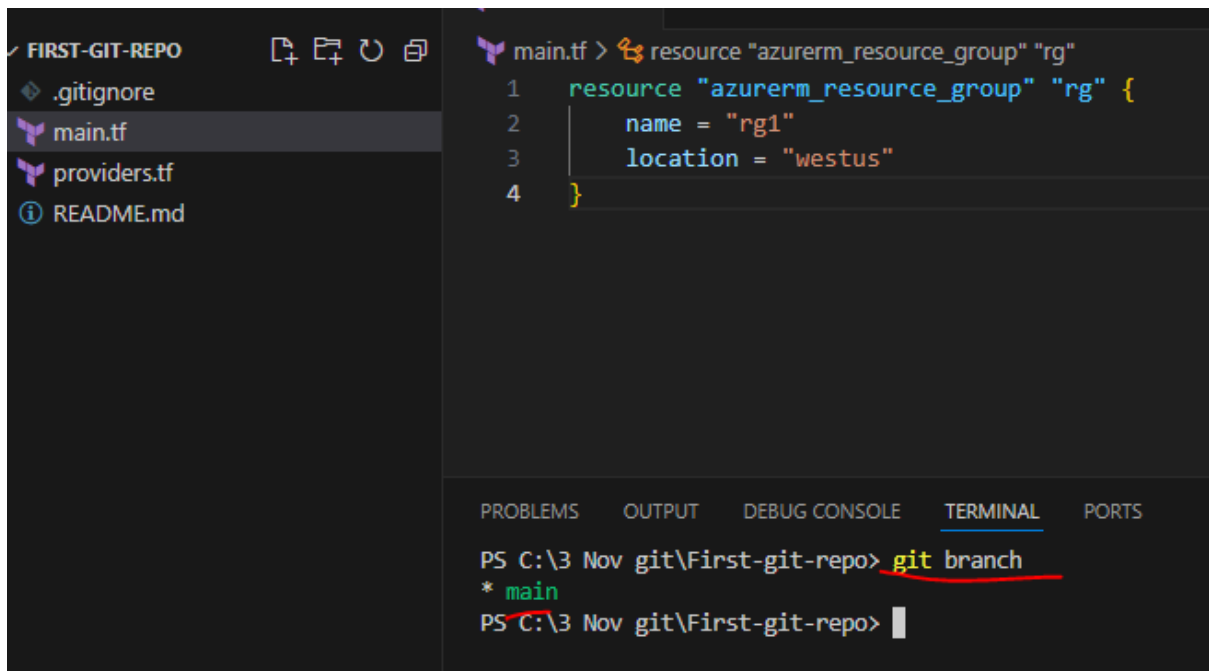


1) No we have locked main branch.

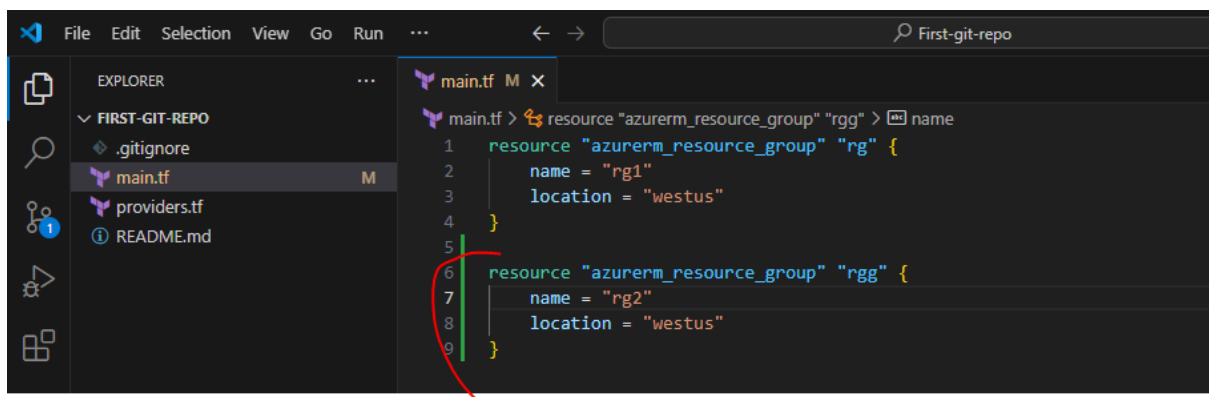


2) In vs code

git branch – means we are in main branch



3) Now add new rg in code



4) **git add .**

git commit -m "code added"

git status

git push

```
PS C:\3 Nov git\First-git-repo> git add .
PS C:\3 Nov git\First-git-repo> git commit -m "code added"
[main 1b1a1c3] code added
1 file changed, 5 insertions(+)
PS C:\3 Nov git\First-git-repo> git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

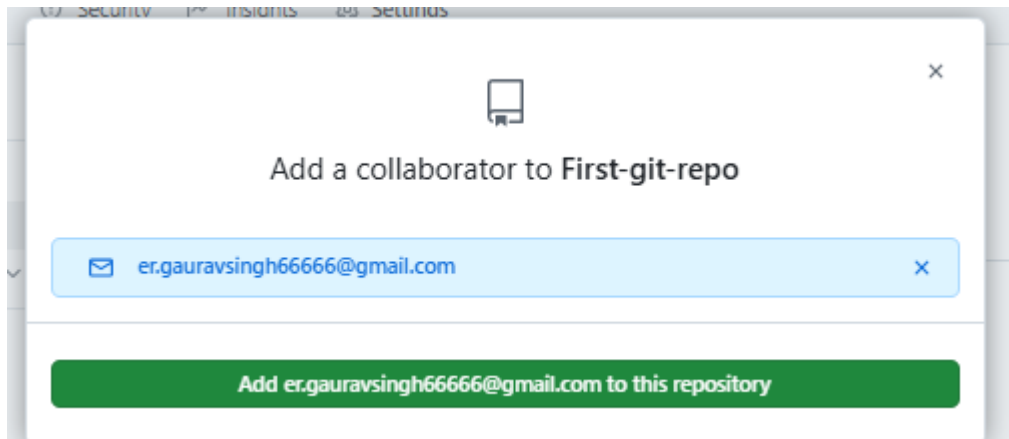
nothing to commit, working tree clean
```

```
PS C:\3 Nov git\First-git-repo> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 342 bytes | 85.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote: Bypassed rule violations for refs/heads/main:
remote:
remote: - Changes must be made through a pull request.
remote:
To https://github.com/GauravRajSingh99/First-git-repo.git
790bc82..1b1a1c3 main -> main
PS C:\3 Nov git\First-git-repo>
```

5) But code got committed because I am the boss

6) Now adding collaborators to give access to repo and work further

The screenshot shows the GitHub repository settings page for a public repository. The 'Settings' tab is selected in the top navigation bar. On the left sidebar, the 'Collaborators' tab is highlighted. The main content area is titled 'Who has access' and shows that the repository is public. Below this, there are two sections: 'PUBLIC REPOSITORY' and 'DIRECT ACCESS'. The 'DIRECT ACCESS' section indicates that 0 collaborators have access. At the bottom, there is a section titled 'Manage access' with a message 'You haven't invited any collaborators yet' and a green 'Add people' button.



7) Now invitation will go to invitation just accept that invitation

You can [accept or decline](#) this invitation. You can also head over to <https://github.com/GauravRajSingh99/First-git-repo> to check out the repository or visit [@GauravRajSingh99](#) to learn a bit more about them.

This invitation will expire in 7 days.

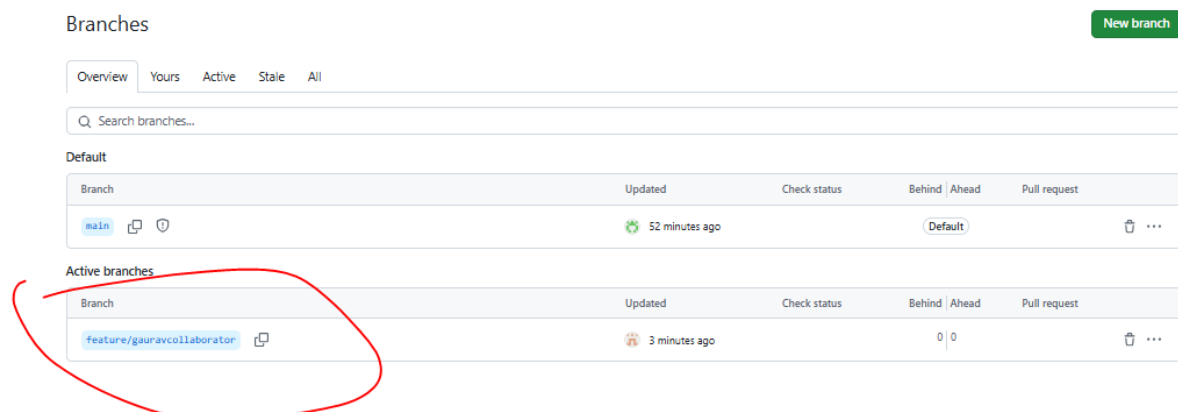
[View invitation](#)

Note: This invitation was intended for er.gauravsingh66666@gmail.com. If you were not expecting this invitation, you can ignore this email. If [@GauravRajSingh99](#) is sending you too many emails, you can [block them](#) or [report abuse](#).

Getting a 404 error? Make sure you're signed in as [gauravsingh66666](#).

8) Now collaborator will do git clone into local or firstly just create feature branch through portal only

9) In dr.gaurav one we will see feature branch created by collaborator “view all branches”

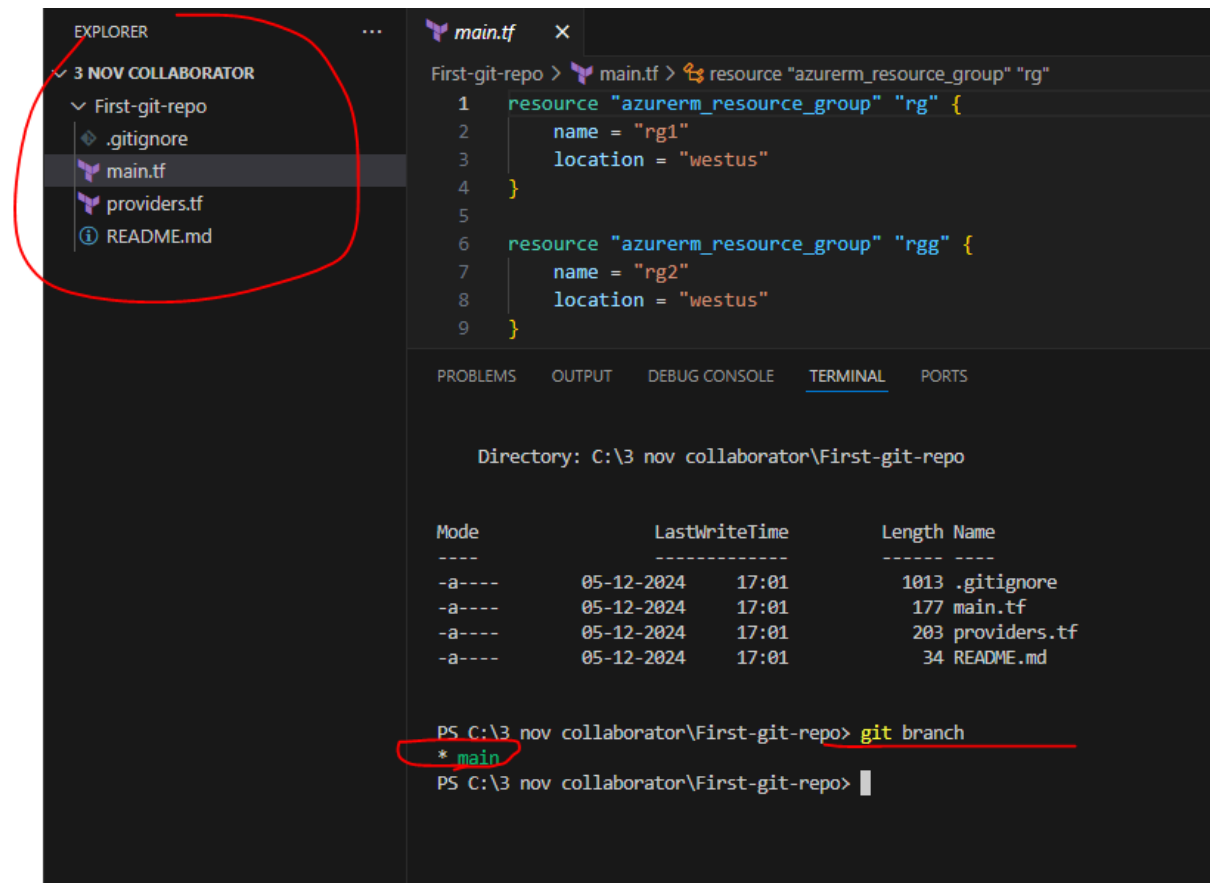


10) Now do git clone feature branch in local. Create folder "3 nov collaborator" then open it with cmd and do git clone

git clone <https://github.com/GauravRajSingh99/First-git-repo.git>

11) now open cloned repo with vs code

git branch so we will be in main branch



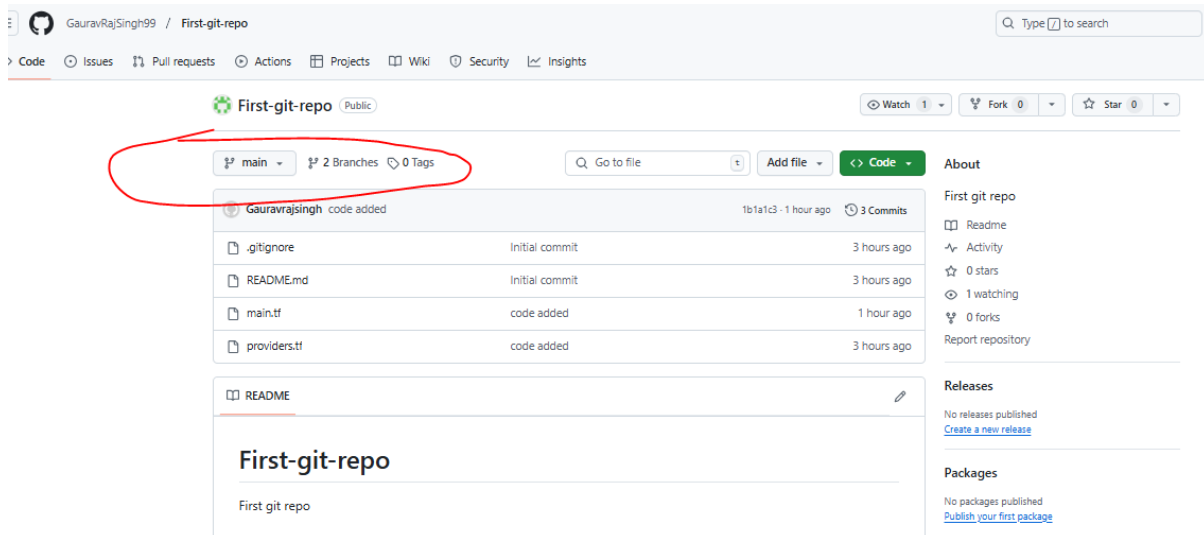
The screenshot shows the Visual Studio Code interface with three main panels:

- EXPLORER:** Displays the file structure of the cloned repository. The files listed are `.gitignore`, `main.tf`, `providers.tf`, and `README.md`. The `main.tf` file is selected and highlighted.
- EDITOR:** Displays the content of the `main.tf` file. The code is as follows:

```
1 resource "azurerm_resource_group" "rg" {
2   name = "rg1"
3   location = "westus"
4 }
5
6 resource "azurerm_resource_group" "rgg" {
7   name = "rg2"
8   location = "westus"
9 }
```
- TERMINAL:** Shows the output of the `git branch` command. The output is:

```
PS C:\3 nov collaborator\First-git-repo> git branch
* main
PS C:\3 nov collaborator\First-git-repo>
```

12) After clone collaborator has to be on main branch only



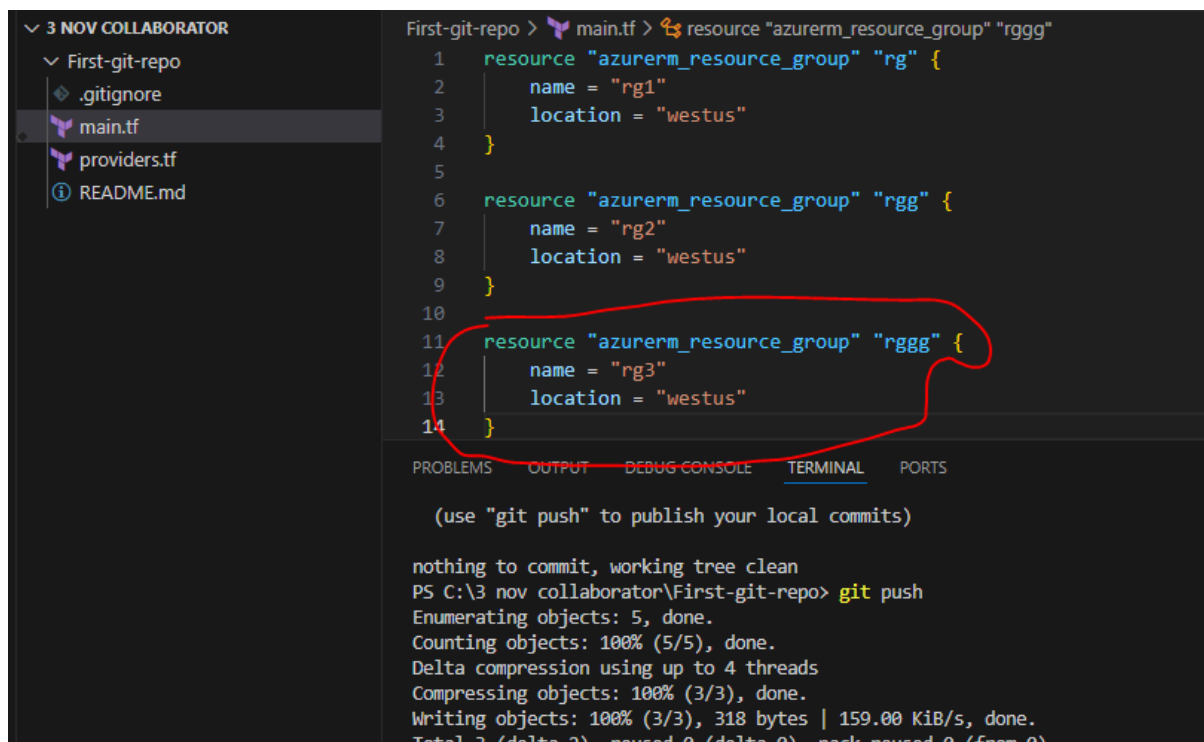
13) now add rg-3 in code by collaborator

git add .

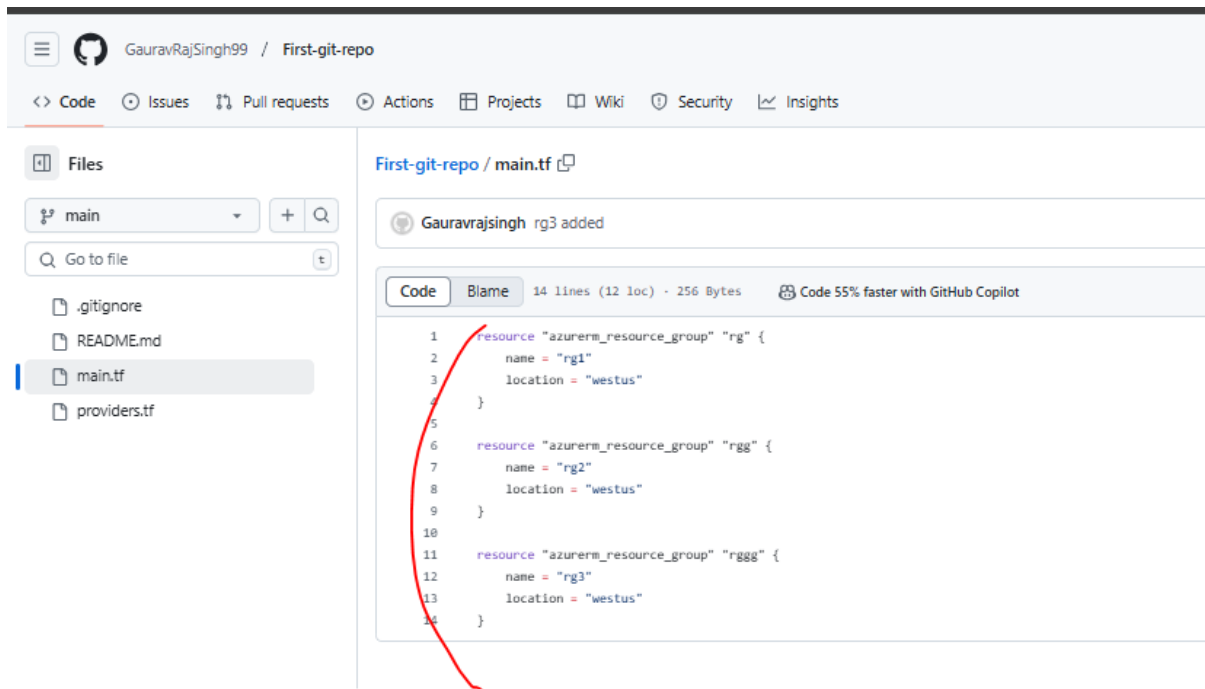
git commit -m "rg3 added"

git status

git push



14) Now after going on main branch it is showing that code has reached to git hub remote repo



15) Now in collaborator vs code run below to switch into feature branch

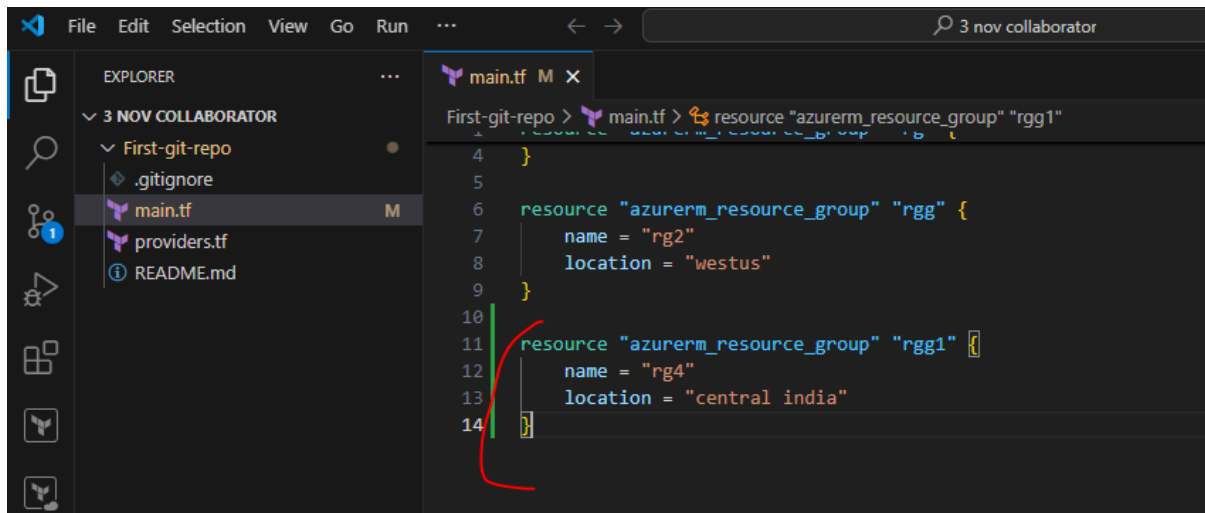
git checkout feature/gauravcollaborator

```
PS C:\3 nov collaborator\First-git-repo> git branch
* main
PS C:\3 nov collaborator\First-git-repo> git checkout feature/gauravcollaborator
branch 'feature/gauravcollaborator' set up to track 'origin/feature/gauravcollaborator'.
Switched to a new branch 'feature/gauravcollaborator'
PS C:\3 nov collaborator\First-git-repo> |
```

16) git branch

```
PS C:\3 nov collaborator\First-git-repo> git branch
* feature/gauravcollaborator
  main
PS C:\3 nov collaborator\First-git-repo> |
```

17) Now in vs code add rg in main.tf



18)

git add .

git commit -m "rg4 added"

git status

git push

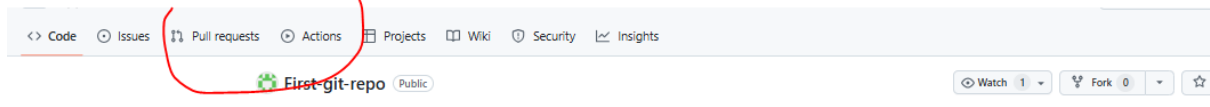
```

PS C:\3 nov collaborator\First-git-repo> git add .
PS C:\3 nov collaborator\First-git-repo> git commit -m "rg4 added"
[feature/gauravcollaborator d7b5ae6] rg4 added
1 file changed, 5 insertions(+)
PS C:\3 nov collaborator\First-git-repo> git status
On branch feature/gauravcollaborator
Your branch is ahead of 'origin/feature/gauravcollaborator' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
PS C:\3 nov collaborator\First-git-repo> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 340 bytes | 170.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/GauravRajSingh99/First-git-repo.git
1b1a1c3..d7b5ae6 feature/gauravcollaborator -> feature/gauravcollaborator
PS C:\3 nov collaborator\First-git-repo>

```

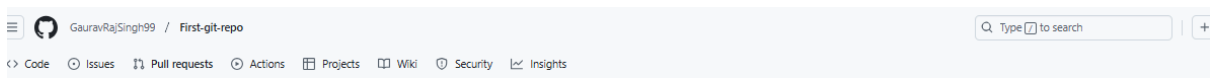
19) Now suppose Gaurav collaborator wants to merge code in main branch so he will use git hub pull request feature



feature/gauravcollaborator 2 Branches 0 Tags Go to file Add file Code

This branch is 1 commit ahead of, 1 commit behind main . Contribute

Gauravraj Singh rg4 added	d7b5ae6 · 4 minutes ago	4 Commits
.gitignore	Initial commit	4 hours ago
README.md	Initial commit	4 hours ago
main.tf	rg4 added	4 minutes ago
providers.tf	code added	4 hours ago



Label issues and pull requests for new contributors
Now, GitHub will help potential first-time contributors [discover issues](#) labeled with [good first issue](#)

Dismiss

Filters 1 ispr isopen Labels 9 Milestones 0 New pull request

Welcome to pull requests!



Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).

base: main compare: feature/gauravcollaborator x Can't automatically merge. Don't worry, you can still create the pull request.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#) Create pull request

1 commit 1 file changed At 1 contributor

Commits on Dec 5, 2024

rg4 added
Gauravraj Singh committed 8 minutes ago

Showing 1 changed file with 5 additions and 0 deletions.

main.tf

```
@@ -5,4 +6,9 @@ resource "azurerm_resource_group" "rg" {
6 resource "azurerm_resource_group" "rgg" {
7   name = "rg2"
8   location = "westus"
9 + }
10 +
11 + resource "azurerm_resource_group" "rggl" {
12 +   name = "rg4"
13 +   location = "central india"
14 }
```


Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comp](#)

base: main

compare: feature/gauravcollaborator

✖ Can't automatically merge. Don't worry, you can still create the pull request.













Add a title

rg4 added

Add a description

Write

Preview

H B I          

rg4 added as manager asked me


Markdown is supported

Paste, drop, or click to add files

Create pull request

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

rg4 added #1


 gauravsingh66666 wants to merge 1 commit into `main` from `feature/gauravcollaborator`

Conversation 0

Commits 1

Checks 0

Files changed 1




gauravsingh66666 commented 2 minutes ago

Collaborator

...

rg4 added as manager asked me.




rg4 added

d7b5ae6

Merge branch 'main' into feature/gauravcollaborator

Verified

528c3e3



✖ Review required

At least 1 approving review is required by reviewers with write access. [Learn more about pull request reviews.](#)

✖ Merging is blocked

Merging can be performed automatically with 1 approving review.

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Review

No review

Still in progress

Assign

No one assigned

Labels

None

Project

None

Milestones

No milestones

Development

Successful

Issues

Try the new merge experience

rg4 added #1

gauravsingh66666 wants to merge 1 commit into `main` from `feature/gauravcollaborator`

Conversation 0 Commits 1 Checks 0 Files changed 1

gauravsingh66666 commented 5 minutes ago

rg4 added as manager asked me.

rg4 added

Merge branch 'main' into feature/gauravcollaborator

gauravsingh66666 requested a review from GauravRajSingh99 now

Review required
At least 1 approving review is required by reviewers with write access. [Learn more about pull request reviews.](#)

1 pending reviewer

Merging is blocked
Merging can be performed automatically with 1 approving review.

Reviewers

GauravRajSingh99

At least 1 approving review is required to merge this pull request.

Still in progress? [Convert to draft](#)

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

20) Now go to dr.gaurav git and open pull request to review

rg4 added #1

gauravsingh66666 wants to merge 2 commits into `main` from `feature/gauravcollaborator`

Conversation 0 Commits 2 Checks 0 Files changed 1

gauravsingh66666 commented 9 minutes ago

rg4 added as manager asked me.

Gauravrajsingh and others added 2 commits 21 minutes ago

rg4 added

Merge branch 'main' into feature/gauravcollaborator

gauravsingh66666 requested a review from GauravRajSingh99 4 minutes ago

Review required
At least 1 approving review is required by reviewers with write access. [Learn more about pull request reviews.](#)

Show all reviewers

Reviewers

GauravRajSingh99

At least 1 approving review is required to merge this pull request.

Still in progress? [Convert to draft](#)

Assignees

No one—[assign yourself](#)

Labels

None yet

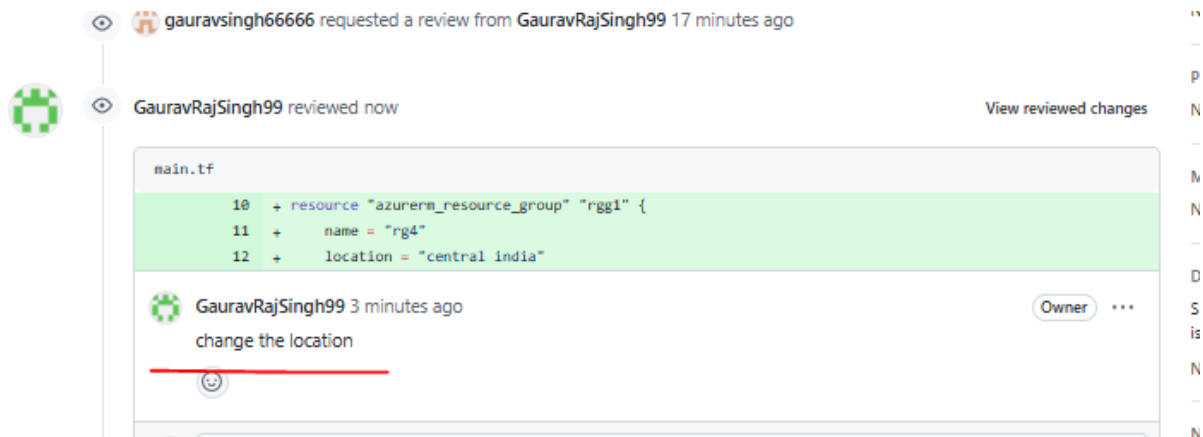
Projects

None yet

gauravsingh66666 requested your review on this pull request.

[Add your review](#)

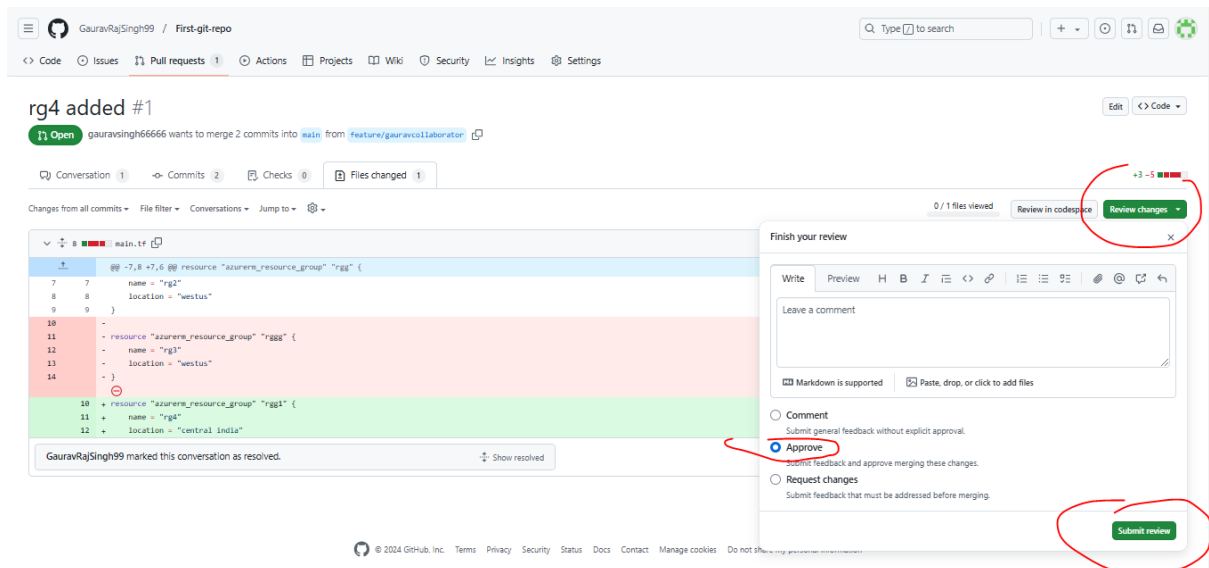
21) so gaurav collaborator will get below message to correct



22) so changed location as east us

```
11 resource "azurerm_resource_group" "rgg1" {
12     name = "rg4"
13     location = "east us"
14 }
```

23) Suppose everything is fine so dr.gauravraj approved



The screenshot displays a GitHub pull request interface. At the top, a review history shows 'gauravsingh66666' requesting a review 3 hours ago, followed by 'GauravRajSingh99' reviewing it 3 hours ago. A 'main.tf' file is listed with a 'Show resolved' button. Below this, 'GauravRajSingh99' self-requested a review 4 minutes ago, and then approved the changes 'now'. A green box highlights the 'Changes approved' status, indicating 1 approval and that the branch has no conflicts with the base branch. A 'Merge pull request' button is visible. To the right, a sidebar shows project settings (None yet), milestone (No milestone), development status (None yet), and notifications (Unsubscribe). Below the merge confirmation, a 'Merge pull request #1 from GauravRajSingh99/feature/gauravcollaborator' dialog is shown, with a 'Confirm merge' button circled in red. The commit message 'rg4 added' is visible. At the bottom, there is an 'Add a comment' section with a 'Write' button and a rich text editor.

Now feature branch code is merged to main branch.

24) Now we can delete the feature branch as it already got merged into main branch.

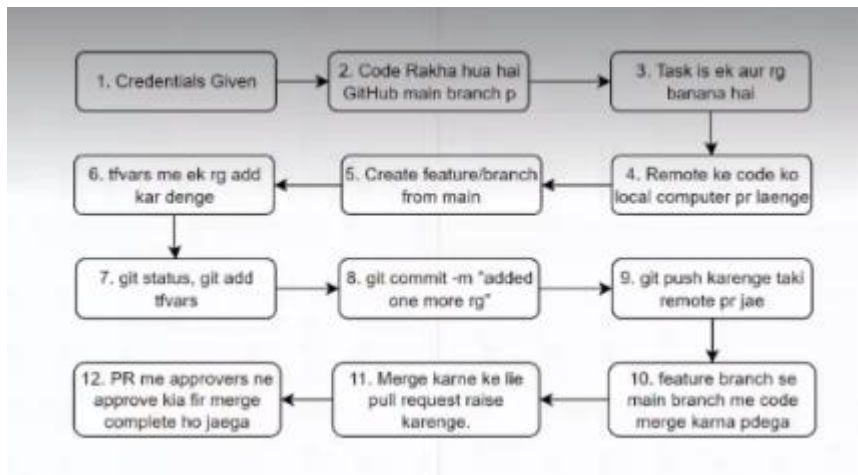
The screenshot shows the same GitHub pull request interface, but with a new action at the bottom: 'GauravRajSingh99 deleted the feature/gauravcollaborator branch now'. This action is circled in red. Above this, the review history shows 'GauravRajSingh99' self-requesting a review 10 minutes ago, approving changes 6 minutes ago, and merging commit 's199795' into 'main' 3 minutes ago. A 'Revert' button is visible next to the merge action. The sidebar on the right shows 'None yet' for projects, milestone, and development status, and '2 participants' for notifications. A 'Restore branch' button is also visible.

The screenshot shows a GitHub pull request interface. At the top, a timeline of events is visible: GauravRajSingh99 self-requested a review 7 minutes ago, GauravRajSingh99 approved these changes 3 minutes ago, and GauravRajSingh99 merged commit 5199795 into main now. A red circle highlights a message box that says "Pull request successfully merged and closed" and "You're all set—the feature/gauravcoll... branch can be safely deleted." To the right of this message is a "Delete branch" button. Below the message box is a "Try the new merge experience" link. On the right side of the interface, there are sections for "Notifications" (None yet), "2 participants" (GauravRajSingh99 and another user), and a "Lock conversation" button. At the bottom, there is a "Add a comment" section with a "Write" tab and a "Preview" tab, and a text area for adding a comment.

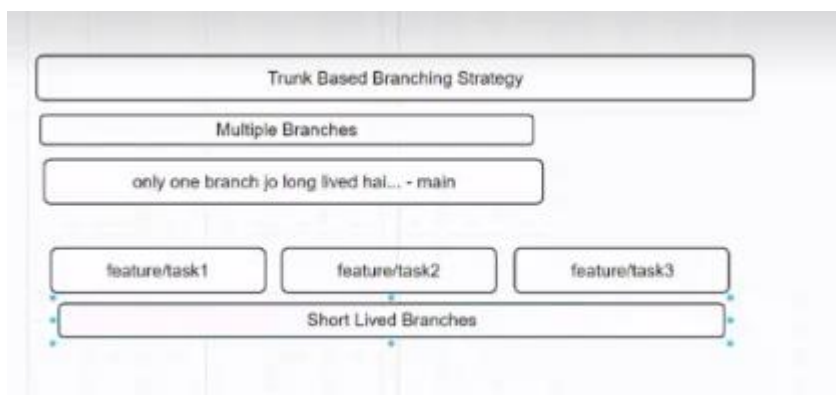
25) Now if we go to main branch the feature branch code can be seen there.

The screenshot shows a GitHub repository page for "GauravRajSingh99 / First-git-repo". The page is displaying the "main" branch. The left sidebar shows the "Files" section with a list of files: .gitignore, README.md, main.tf, and providers.tf. The main content area shows the "main.tf" file, which contains Terraform code for creating three Azure Resource Groups. The code is as follows:

```
1 resource "azurerm_resource_group" "rg" {
2   name = "rg1"
3   location = "westus"
4 }
5
6 resource "azurerm_resource_group" "rgg" {
7   name = "rg2"
8   location = "westus"
9 }
10 resource "azurerm_resource_group" "rgg1" {
11   name = "rg4"
12   location = "central india"
```



26) So we have studied trunk based branching strategy

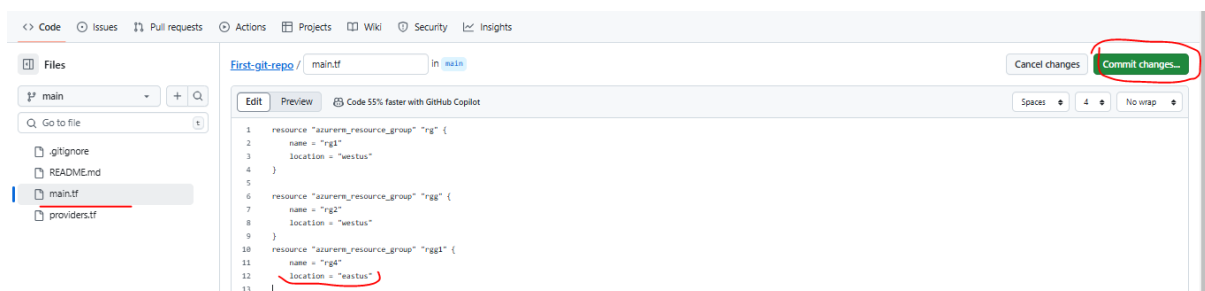


27) gill pull = remote repo ke content ko local pr kheech kr laata hai



28) Go to collaborator git and commit code in git only

29) edit code and make location as “east us”.



30) Now in vscode location is “centralindia” and in github repo it is “eastus” so we will do git pull to fetch remote repo changes to local

31) git pull

```
PS C:\3 nov collaborator\First-git-repo> git pull
remote: Enumerating objects: 13, done.
remote: Counting objects: 100% (13/13), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 9 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (9/9), 4.40 KiB | 80.00 KiB/s, done.
From https://github.com/GauravRajSingh99/First-git-repo
* [new branch]      gauravsingh66666-patch-1 -> origin/gauravsingh66666-patch-1
  5d4fe5b..7c64d3c  main      -> origin/main
Your configuration specifies to merge with the ref 'refs/heads/feature/gauravcollaborator'
from the remote, but no such ref was fetched.
PS C:\3 nov collaborator\First-git-repo> █
```