

## **Module-2: GIT Assignment - 3**

**You have been asked to:**

- **Create a git working directory, with the following branches**
  - **Develop**
  - **F1**
  - **f2**
- **In the master branch, commit main.txt file**
- **Put develop.txt in develop branch, f1.txt and f2.txt in f1 and f2 respectively**
- **Push all these branches to github**
- **On local delete f2 branch**
- **Delete the same branch on github as well**

=====

**First part:: • Create a git working directory, with the following branches**

- **Develop**
- **F1**
- **f2**

**Sudo su**

**Apt update**

**Apt-get install git-all**

**Mkdir <directory name>**

**Git init**

- **Commit any one file to get the master branch**

**Git branch Develop**

**Git branch f1**

**Git branch f2**

**Git branch (to view all created branches)**

## Git init is done

```
Setting up git-gui (1:2.34.1-1ubuntu0.6) ...
Setting up gitk (1:2.34.1-1ubuntu0.6) ...
Setting up libnamespace-clean-perl (0.27-1) ...
Setting up libnamespace-autoclean-perl (0.29-1) ...
Setting up libdatetime-local-perl (1:1.35-1) ...
Setting up libdatetime-timezone-perl (1:2.51-1+2021e) ...
Setting up libdatetime-perl:amd64 (2:1.55-1build1) ...
Setting up libdatetime-format-strings-perl (1:7200-1) ...
Setting up libdatetime-format-builder-perl (0.8300-1) ...
Setting up libdatetime-format-iso8601-perl (0.16-1) ...
Setting up libldap-protocol-https-perl (6.10-1) ...
Setting up libwww-perl (6.61-1) ...
Setting up libmediawiki-api-perl (0.52-1) ...
Setting up git-mediawiki (1:2.34.1-1ubuntu0.6) ...
Setting up git-all (1:2.34.1-1ubuntu0.6) ...
Processing triggers for install-info (6.8-4build1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for ufw (0.36.1-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-56-141:/home/ubuntu# mkdir assignment
root@ip-172-31-56-141:/home/ubuntu# cd assignment
root@ip-172-31-56-141:/home/ubuntu/assignment# git init
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:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ubuntu/assignment/.git/
root@ip-172-31-56-141:/home/ubuntu/assignment#
```

**i-0e2584396bab62e1e (for git)**  
PublicIPs: 54.257.114.236 PrivateIPs: 172.31.56.141

## All three branches are created.

```
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ubuntu/.git/
root@ip-172-31-15-156:/home/ubuntu# git config --global init.defaultBranch master
root@ip-172-31-15-156:/home/ubuntu# git branch
root@ip-172-31-15-156:/home/ubuntu# git branch develop
fatal: Not a valid object name: 'master'.
root@ip-172-31-15-156:/home/ubuntu# git checkout -b master
Switched to a new branch 'master'
root@ip-172-31-15-156:/home/ubuntu# git branch
root@ip-172-31-15-156:/home/ubuntu# git branch develop
fatal: Not a valid object name: 'master'.
root@ip-172-31-15-156:/home/ubuntu# git checkout master
error: pathspec 'master' did not match any file(s) known to git
fatal: Not a valid object name: 'master'.
root@ip-172-31-15-156:/home/ubuntu# touch test.txt
root@ip-172-31-15-156:/home/ubuntu# git add test.txt
root@ip-172-31-15-156:/home/ubuntu# git commit -m "test"
[master (root-commit) c908a8d] test
1 commit (root c908a8d) test
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:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

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(-)
create mode 100644 test.txt
root@ip-172-31-15-156:/home/ubuntu# git branch
* master
root@ip-172-31-15-156:/home/ubuntu# git branch develop
root@ip-172-31-15-156:/home/ubuntu# git branch fi
root@ip-172-31-15-156:/home/ubuntu# git branch f2
root@ip-172-31-15-156:/home/ubuntu# git branch
  develop
  fi
  f2
* master
root@ip-172-31-15-156:/home/ubuntu#
```

**i-062ff051e9ad1960e (for git)**  
PublicIPs: 3.239.35.83 PrivateIPs: 172.31.15.156

**Second part: • In the master branch, commit main.txt file**

**Git checkout master**

**Touch main.txt**

**Git add main.txt**

**Git commit -m "<message>"**

**Third part: • Put develop.txt in develop branch, f1.txt and f2.txt in f1 and f2 respectively**

**• Push all these branches to github**

**Git checkout develop**

**Touch develop.txt**

**Git add develop.txt**

**Git commit -m "<message>"**

**Git checkout f1**

**Touch f1.txt**

**Git add f1.txt**

**Git commit -m "<message>"**

**Git checkout f2**

**Touch f2.txt**

**Git add f2.txt**

**Git commit -m "<message>"**

**Git remote add origin <link for github repo>**

**Git push origin -all**

## Files from all three branches are pushed to repo.

```
root@ip-172-31-15-156:/home/ubuntu# git add test.txt
root@ip-172-31-15-156:/home/ubuntu# git commit -m "test"
[master (root@commit) c90868d] test
Committer: root <root@ip-172-31-15-156.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:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

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(-)
create mode 100644 test.txt
root@ip-172-31-15-156:/home/ubuntu# git branch
* master
root@ip-172-31-15-156:/home/ubuntu# git branch develop
root@ip-172-31-15-156:/home/ubuntu# git branch fi
root@ip-172-31-15-156:/home/ubuntu# git branch f2
root@ip-172-31-15-156:/home/ubuntu# git branch
  develop
  fi
  f2
* master
root@ip-172-31-15-156:/home/ubuntu# touch main.txt
root@ip-172-31-15-156:/home/ubuntu# git add main.txt
root@ip-172-31-15-156:/home/ubuntu# git commit -m "main"
[master 86b6fb9] main
Committer: root <root@ip-172-31-15-156.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:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

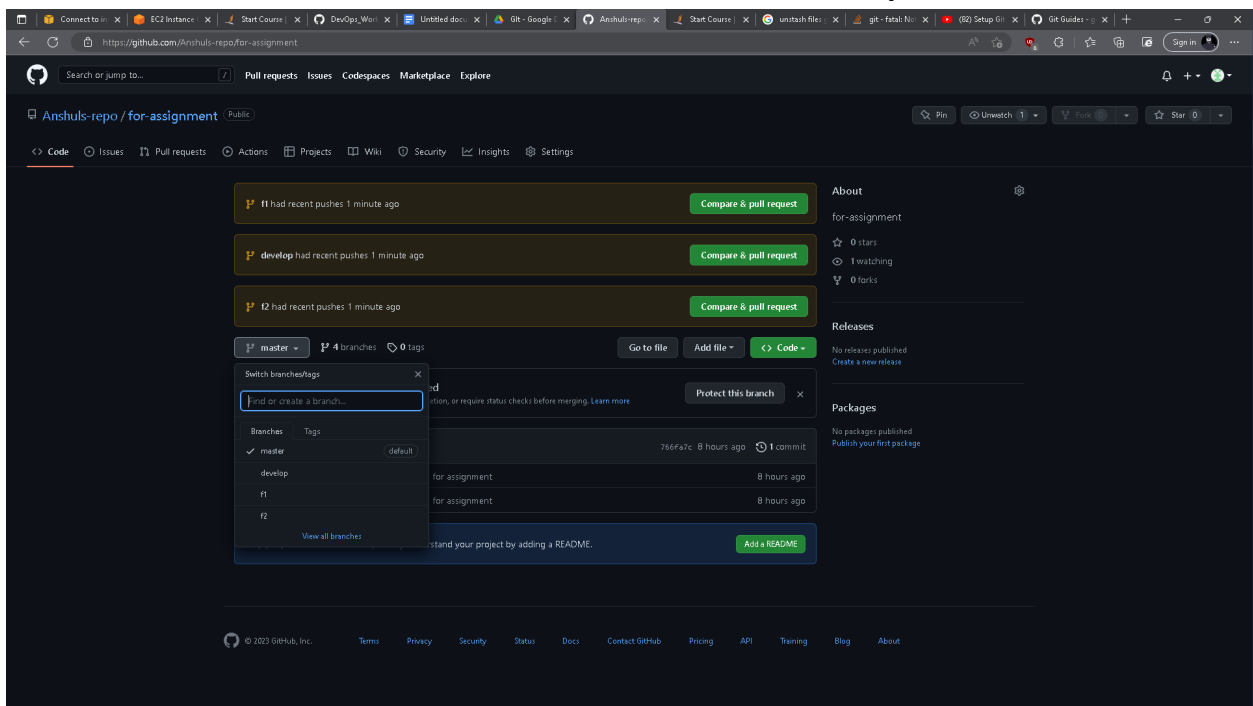
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

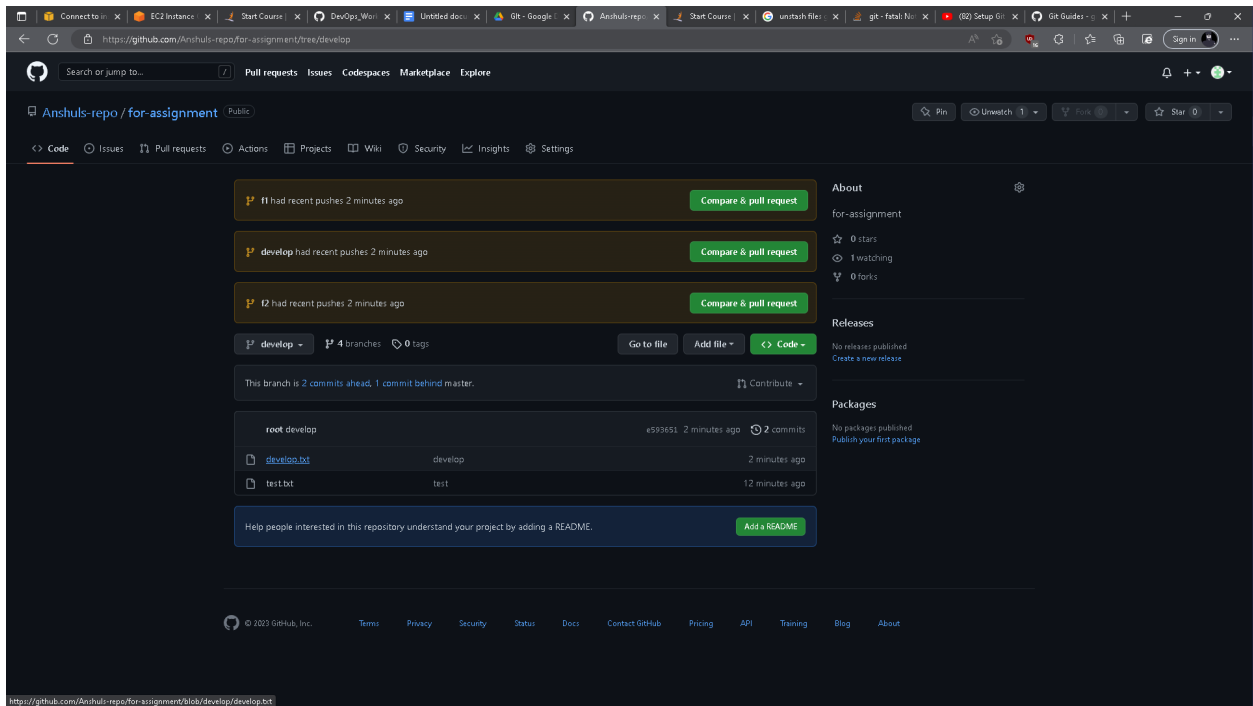
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 main.txt
root@ip-172-31-15-156:/home/ubuntu#
```

i-062ff051e9ad1960e (for-git)  
PublicIP: 3.235.35.83 PrivateIP: 172.31.15.156

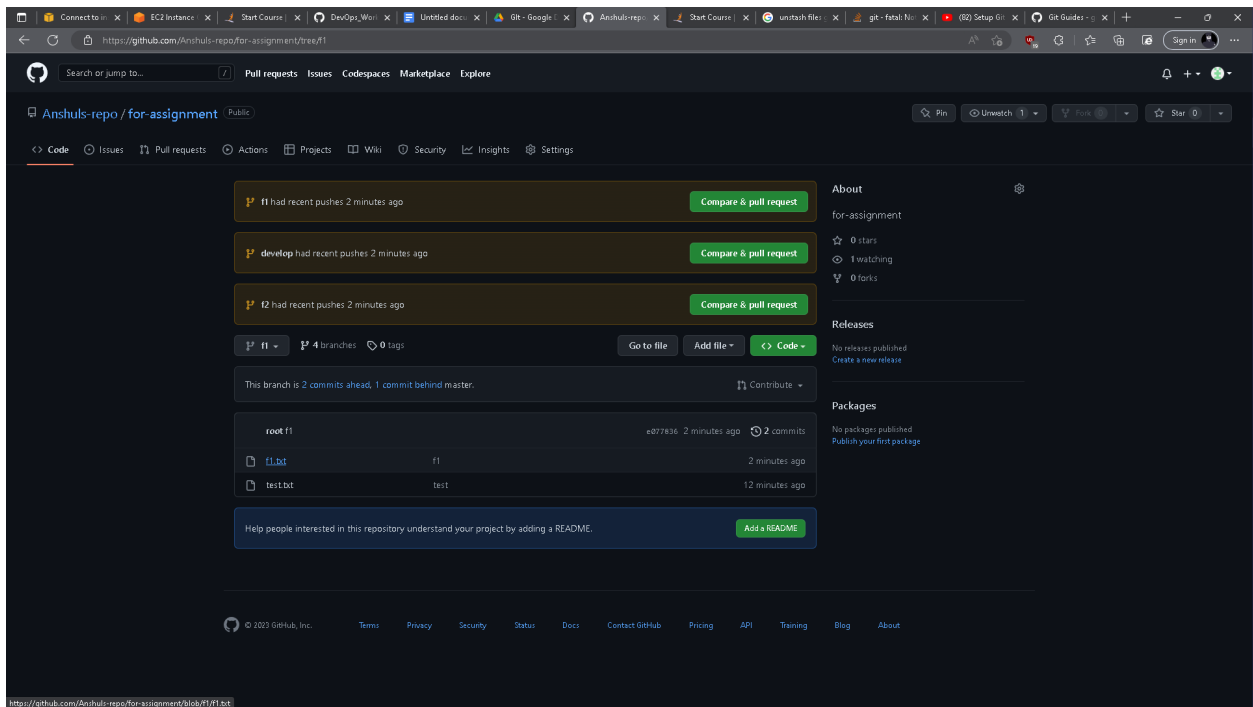
## files and branches can be observed in repo.



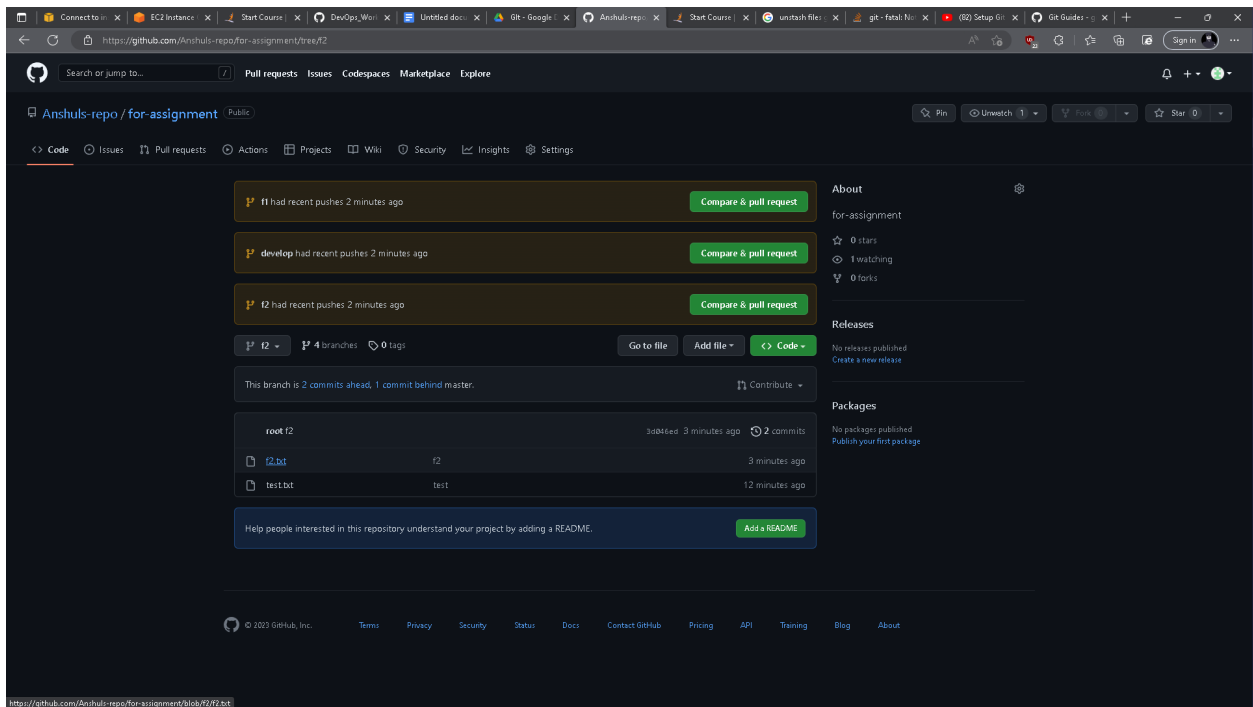
## Files in develop branch



## File in f1 branch



## file in f2 branch



### Fourth part: • On local delete f2 branch

- Delete the same branch on github as well

Git branch -D f2

git push origin --delete f2

# Deleted locally

```
Switched to branch 'f1'
root@ip-172-31-15-156:/home/ubuntu# git add f1.txt
root@ip-172-31-15-156:/home/ubuntu# git commit -m "f1"
[f1 e077836] f1
Committer: root <root@ip-172-31-15-156.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:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

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(-)
create mode 100644 f1.txt
root@ip-172-31-15-156:/home/ubuntu# git push --all
Username for 'https://github.com': Anahuls-repo
Password for 'https://github.com/Anahuls-repo@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (9/9), done.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 666 bytes | 666.00 KiB/s, done.
Total 8 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/Anahuls-repo/for-assignment.git
   +0000000...e077836  f1 -> f1
   +0000000...e077836  f1 -> f1
   +0000000...e077836  f2 -> f2
[rejected]        master -> master (fetch first)
error: failed to push some refs to 'https://github.com/Anahuls-repo/for-assignment.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forward' in 'git push --help' for details.
root@ip-172-31-15-156:/home/ubuntu# git branch -d f2
error: The branch 'f2' is not fully merged.
If you are sure you want to delete it, run 'git branch -D f2'.
root@ip-172-31-15-156:/home/ubuntu# git branch -D f2
> ^C
root@ip-172-31-15-156:/home/ubuntu# git branch -D f2
Deleted branch f2 (was 3d046ed).
root@ip-172-31-15-156:/home/ubuntu#
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt
root@ip-172-31-15-156:/home/ubuntu# git push --all
Username for 'https://github.com': Anahuls-repo
Password for 'https://github.com/Anahuls-repo@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (9/9), done.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 666 bytes | 666.00 KiB/s, done.
Total 8 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/Anahuls-repo/for-assignment.git
   +0000000...e077836  f1 -> f1
   +0000000...e077836  f1 -> f1
   +0000000...e077836  f2 -> f2
[rejected]        master -> master (fetch first)
error: failed to push some refs to 'https://github.com/Anahuls-repo/for-assignment.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forward' in 'git push --help' for details.
root@ip-172-31-15-156:/home/ubuntu# git branch -d f2
error: The branch 'f2' is not fully merged.
If you are sure you want to delete it, run 'git branch -D f2'.
root@ip-172-31-15-156:/home/ubuntu# git branch -D f2
> ^C
root@ip-172-31-15-156:/home/ubuntu# git branch -D f2
Deleted branch f2 (was 3d046ed).
root@ip-172-31-15-156:/home/ubuntu# git status
On branch f1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .bash_logout
        .bashrc
        .cache/
        .profile
        .zsh/
        sudo_as_admin_successful

nothing added to commit but untracked files present (use "git add" to track)
root@ip-172-31-15-156:/home/ubuntu# git branch
  develop
  f1
  master
root@ip-172-31-15-156:/home/ubuntu#
```

## Deleted on github

```
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., "git pull ...") before pushing again.
hint: See the "Note about test-forwards" in "git push --help" for details.
root@ip-172-31-15-156:/home/ubuntu# git branch -d f2
error: the branch 'f2' is not fully merged.
If you are sure you want to delete it, run 'git branch -D f2'.
root@ip-172-31-15-156:/home/ubuntu# git branch -D f2
Deleted branch f2 (was 3d046ed).
root@ip-172-31-15-156:/home/ubuntu# git status
On branch f1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .bash_logout
        .bashrc
        .cacher/
        .profile
        .ssh/
        .sudo_as_admin_successful

nothing added to commit but untracked files present (use "git add" to track)
root@ip-172-31-15-156:/home/ubuntu# git branch
* develop
  f1
  master
root@ip-172-31-15-156:/home/ubuntu# git commit -m "del"
On branch f1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .bash_logout
        .bashrc
        .cacher/
        .profile
        .ssh/
        .sudo_as_admin_successful

nothing added to commit but untracked files present (use "git add" to track)
root@ip-172-31-15-156:/home/ubuntu# git push origin --delete f2
Username for 'https://github.com': Anshuls-repo
Password for 'https://Anshuls-repo@github.com':
To https://github.com/Anshuls-repo/for-assignment.git
- f2
  = [deleted]
root@ip-172-31-15-156:/home/ubuntu#
```

i-062ff051e9ad1960e (for-git)  
PublicIP: 3.235.35.83 PrivateIP: 172.31.15.156

## can't find f2 branch hence deleted.

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Branch	Tags
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develop	
✓ f1	

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for-assignment

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