

Module-2: GIT Assignment - 4

You have been asked to:

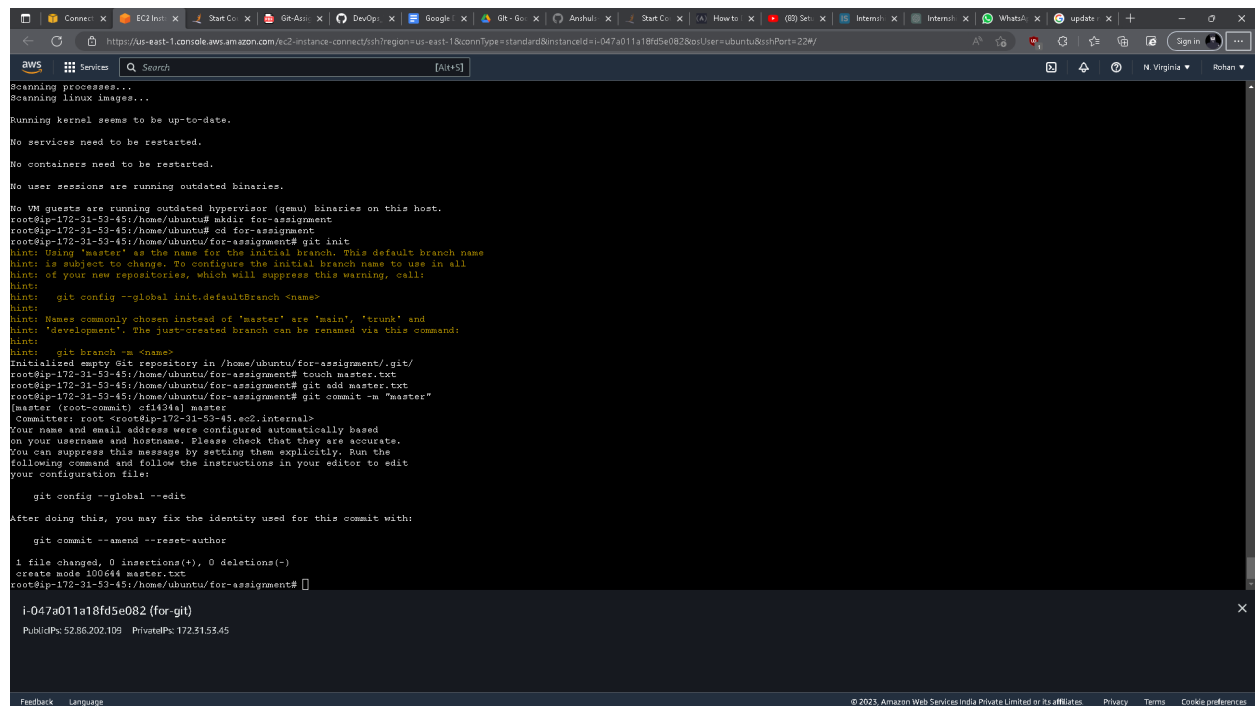
- Put master.txt on master branch, stage and commit
- Create 3 branches: public1, public2 and private
- Put public1.txt on public 1 branch, stage and commit
- Merge public 1 on master branch
- Merge public 2 on master branch
- Edit master.txt on private branch, stage and commit
- Now update branch public 1 and public 2 with new master code in private
- Also update new master code on master
- Finally update all the code on the private branch

- Put master.txt on master branch, stage and commit

Touch master.txt

Git add master.txt

Git commit -m "master"



```
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No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.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-172-31-53-45:/home/ubuntu# mkdir for-assignment
root@ip-172-31-53-45:/home/ubuntu# cd for-assignment
root@ip-172-31-53-45:/home/ubuntu/for-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/for-assignment/.git/
root@ip-172-31-53-45:/home/ubuntu/for-assignment# touch master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git add master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git commit -m "master"
[master (root-commit) c1f524e] master
1 commit (root-commit) c1f524e master
Committer: root <root@ip-172-31-53-45.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(-)
create mode 100644 master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment#
```

i-047a011a18fd5e082 (for-git)
PubIdP: 52.86.202.109 PrivateP: 172.31.53.45

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- Create 3 branches: public1, public2 and private
- Put public1.txt on public 1 branch, stage and commit

Git branch public1

Git branch public2

Git branch public3

Git checkout public1

Touch public1.txt

Git add public1.txt

Git commit -m "public1"

```

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-53-45:/home/ubuntu# mkdir for-assignment
root@ip-172-31-53-45:/home/ubuntu# cd for-assignment
root@ip-172-31-53-45:/home/ubuntu/for-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/for-assignment/.git/
root@ip-172-31-53-45:/home/ubuntu/for-assignment# touch master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git add master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git commit -m "master"
[master (root-commit) c1134a] master
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git branch public1
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git branch public2
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git branch private
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git branch
* master
  public1
  public2
root@ip-172-31-53-45:/home/ubuntu/for-assignment#

+047a011a18fd5e082 (for-git)
Pub(d)P: 52.86.202.109  Priv(d)P: 172.31.53.45
  
```

- Merge public 1 on master branch
 - Merge public 2 on master branch
- ## Git checkout master
- ## Git merge public1
- ## Git merge public2

```
root@ip-172-31-53-45:~$ git config --global init.defaultBranch <name>
hint: git config --global init.defaultBranch <name>
hint: Names 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>
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git init
Initialized empty Git repository in /home/ubuntu/for-assignment/.git/
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ touch master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git add master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git commit -m "master"
[master (root-commit) c1454e1] master
1 file changed, 0 insertions(+), 0 deletions(-)
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git branch public1
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git branch public2
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git branch private
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git checkout master
Already on 'master'
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git merge public1
Already up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git merge public2
Already up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git checkout public1
Switched to branch 'public1'
root@ip-172-31-53-45:/home/ubuntu/for-assignment$ git merge master
Already up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment$
```

i-047a011a18fd5e082 (for git)

PublicIPs: 52.86.202.108 PrivateIPs: 172.31.53.45

- Edit master.txt on private branch, stage and commit

Git checkout private

Nano master.txt

Add some data to it and save

Git add master.txt

Git commit -m "private"

```

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 master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git branch public1
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git branch public2
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git branch private
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git branch
* master
  private
  public1
  public2
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout master
Already on 'master'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git merge public1
Already up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git merge public2
Already up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout public1
Switched to branch 'public1'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git merge master
Already up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout private
Switched to branch 'private'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# nano master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git add master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git commit -m "from private"
[private 1a06944] from private
Committer: root <root@ip-172-31-53-45.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, 1 insertion(+)
root@ip-172-31-53-45:/home/ubuntu/for-assignment#

i-047a011a18fd5e082 (for-git)
PublicPv: 52.86.202.109 PrivatePv: 172.31.53.45
  
```

- Now update branch public 1 and public 2 with new master code in private
- Also update new master code on master

git checkout public2

Switched to branch 'public2'

root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private

Successfully rebased and updated refs/heads/public2.

root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout public1

Switched to branch 'public1'

root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private

Successfully rebased and updated refs/heads/public1.

root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout master

Switched to branch 'master'

root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private

Successfully rebased and updated refs/heads/master.

- Finally update all the code on the private branch

Git checkout private

Git merge master

```
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git log
commit 1ee994f24540844086916c0e9b02d06a9a2 (HEAD -> private)
Author: root <root@ip-172-31-53-45.ec2.internal>
Date:   Mon Feb 6 16:27:47 2023 +0000

    from private

commit c1141641201b0e71b1b120f4d042523b08f669a53 (public2, public, master)
Author: root <root@ip-172-31-53-45.ec2.internal>
Date:   Mon Feb 6 16:23:17 2023 +0000

    master

root@ip-172-31-53-45:/home/ubuntu/for-assignment# ll
total 16
drwxr-xr-x  3 root  root  4096 Feb  6 16:27 ./
drwxr-xr-x  5 ubuntu ubuntu 4096 Feb  6 16:22 ../
drwxr-xr-x  8 root  root  4096 Feb  6 16:29 .git/
-rw-r--r--  1 root  root   7 Feb  6 16:27 master.txt
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git fetch
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase public
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase public2
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# g rebase master
g: command not found
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase master
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout public
Switched to branch 'public'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase public
Current branch public is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout public2
Switched to branch 'public2'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private
Successfully rebased and updated refs/heads/public2.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout public
Switched to branch 'public'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private
Successfully rebased and updated refs/heads/public.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout master
Switched to branch 'master'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private
Successfully rebased and updated refs/heads/master.
root@ip-172-31-53-45:/home/ubuntu/for-assignment#
```

```
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase master
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout public
Switched to branch 'public'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase public
Current branch public is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout public2
Switched to branch 'public2'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private
Successfully rebased and updated refs/heads/public2.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout public
Switched to branch 'public'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private
Successfully rebased and updated refs/heads/public.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout master
Switched to branch 'master'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private
Successfully rebased and updated refs/heads/master.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private --all
Current branch master is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git checkout private
Switched to branch 'private'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private --all
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase --all private
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase --all
There is no tracking information for the current branch.
Please specify which branch you want to rebase against.
See git-rebase(1) for details.

    git rebase "<branch>"

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=<remote>/<branch> private

root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase .
fatal: invalid upstream '.'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private .
fatal: no such branch/commit '.'
root@ip-172-31-53-45:/home/ubuntu/for-assignment# git rebase private
Current branch private is up to date.
root@ip-172-31-53-45:/home/ubuntu/for-assignment#
```