DevOps Certification Course 
Module 2: Git Assignment 
Problem Statement: 
Create a txt file, and do the following commits in them: 
nteIIiPaat 
1. 
2. 
3. 
4. 
Add first line as "this is first commit" 
Create a feature branch fl, in this branch change this txt file and add second line as "this is 
feature 1" 
From master, create another feature branch f2, add in txt file second line as "this is 
feature2" 
Merge fl on master 
While merging f2 there were some errors, resolve the errors and submit the github repo 

1 mkdir gitproject

2 cd gitproject/

3 touch one.txt

4 git init

5 git status

6 git add one.txt

7 git commit -m "this is first commit"

8 git config --global user.name Kashmir

9 git config --global user.email kashmirgaurav@gmail.com

10 git config --global --list

11 git commit -m "this is first commit"

12 git log

13 echo "This is the first line" >> one.txt

14 git status

15 git add .

16 git commit -m "this is first commit"

17 git log --oneline

18 cat one.txt

19 git branch f1

20 git checkout f1

21 echo "line 2 is added" >> one.txt

22 git add .

23 git commit -m "this is feature1"

24 ls

25 git checkout master

26 git branch f2

27 echo "this is feature2" >>one.txt

28 git add .

29 git commit -m "line 2 added by feature branch f2"

30 git checkout master

31 ls

32 cat one.txt

33 nano one.txt

34 cat one.txt

35 git checkout f2

36 git status

37 git add .

38 git commit -m "commited"

39 ls

40 git checkout f2

41 echo "Line 2 is added by feature branch f2" >> one.txt

42 git add .

43 git commit -m "this is feature2"

44 cat one.txt

45 git checkout f1

46 cat one.txt

47 git checkout master

48 git merge f1

49 git merge f2

50 git mergetool --tool=vimdiff

51 git status

52 git commit -m "merge conflict is resolved"

53 ls

54 cat one.txt

55 rm one.txt.orig

56 ls

57 history

58 git remote add origin <https://github.com/Kgaurav8/assignment1git.git>

59 git push origin master

GIT HUB URL:

https://github.com/Kgaurav8/assignment1git

/home/ubuntu

ubuntu@ip-172-31-20-252:~$ sudo apt-get update

Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease

Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]

Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]

Get:4 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]

Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [8570 kB]

Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe Translation-en [4941 kB]

Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages [151 kB]

Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Translation-en [108 kB]

Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [2218 kB]

Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [433 kB]

Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages [462 kB]

Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted Translation-en [62.5 kB]

Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [1749 kB]

Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en [375 kB]

Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [27.3 kB]

Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en [6808 B]

Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [10.0 kB]

Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/main Translation-en [4764 B]

Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [10.3 kB]

Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe Translation-en [4588 B]

Get:21 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [1871 kB]

Get:22 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [341 kB]

Get:23 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [438 kB]

Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [58.8 kB]

Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [1138 kB]

Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [259 kB]

Get:27 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [20.9 kB]

Get:28 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [4732 B]

Fetched 23.5 MB in 5s (4951 kB/s)

Reading package lists... Done

ubuntu@ip-172-31-20-252:~$ clear

ubuntu@ip-172-31-20-252:~$ git --version

git version 2.17.1

ubuntu@ip-172-31-20-252:~$ sudo su

root@ip-172-31-20-252:/home/ubuntu# mkdir gitproject

root@ip-172-31-20-252:/home/ubuntu# cd gitproject/

root@ip-172-31-20-252:/home/ubuntu/gitproject# touch one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git init

Initialized empty Git repository in /home/ubuntu/gitproject/.git/

root@ip-172-31-20-252:/home/ubuntu/gitproject# git status

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

one.txt

nothing added to commit but untracked files present (use "git add" to track)

root@ip-172-31-20-252:/home/ubuntu/gitproject# git add one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git commit -m "this is first commit"

[master (root-commit) a49e814] this is first commit

Committer: root <root@ip-172-31-20-252.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 one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git config --global user.name Kashmir

root@ip-172-31-20-252:/home/ubuntu/gitproject# git config --global user.email kashmirgaurav@gmail.com

root@ip-172-31-20-252:/home/ubuntu/gitproject# git config --global --list

user.name=Kashmir

user.email=kashmirgaurav@gmail.com

root@ip-172-31-20-252:/home/ubuntu/gitproject# git commit -m "this is first commit"

On branch master

nothing to commit, working tree clean

root@ip-172-31-20-252:/home/ubuntu/gitproject# git log

commit a49e81481c419be35d15569b40f4047331f08525 (HEAD -> master)

Author: root <root@ip-172-31-20-252.ec2.internal>

Date: Sat Sep 18 11:47:18 2021 +0000

this is first commit

root@ip-172-31-20-252:/home/ubuntu/gitproject# echo "This is the first line" >> one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: one.txt

no changes added to commit (use "git add" and/or "git commit -a")

root@ip-172-31-20-252:/home/ubuntu/gitproject# git add .

root@ip-172-31-20-252:/home/ubuntu/gitproject# git commit -m "this is first commit"

[master 632c1d7] this is first commit

1 file changed, 1 insertion(+)

root@ip-172-31-20-252:/home/ubuntu/gitproject# git log --oneline

632c1d7 (HEAD -> master) this is first commit

a49e814 this is first commit

root@ip-172-31-20-252:/home/ubuntu/gitproject# cat one.txt

This is the first line

root@ip-172-31-20-252:/home/ubuntu/gitproject# git branch f1

root@ip-172-31-20-252:/home/ubuntu/gitproject# git checkout f1

Switched to branch 'f1'

root@ip-172-31-20-252:/home/ubuntu/gitproject# echo "line 2 is added" >> one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git add .

root@ip-172-31-20-252:/home/ubuntu/gitproject# git commit -m "this is feature1"

[f1 3deb637] this is feature1

1 file changed, 1 insertion(+)

root@ip-172-31-20-252:/home/ubuntu/gitproject# ls

one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git checkout master

Switched to branch 'master'

root@ip-172-31-20-252:/home/ubuntu/gitproject# git branch f2

root@ip-172-31-20-252:/home/ubuntu/gitproject# echo "this is feature2" >>one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git add .

root@ip-172-31-20-252:/home/ubuntu/gitproject# git commit -m "line 2 added by feature branch f2"

[master a9c0dbd] line 2 added by feature branch f2

1 file changed, 1 insertion(+)

root@ip-172-31-20-252:/home/ubuntu/gitproject# git checkout master

Already on 'master'

root@ip-172-31-20-252:/home/ubuntu/gitproject# ls

one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# cat one.txt

This is the first line

this is feature2

root@ip-172-31-20-252:/home/ubuntu/gitproject# nano one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# cat one.txt

This is the first line

root@ip-172-31-20-252:/home/ubuntu/gitproject# git checkout f2

error: Your local changes to the following files would be overwritten by checkout:

one.txt

Please commit your changes or stash them before you switch branches.

Aborting

root@ip-172-31-20-252:/home/ubuntu/gitproject# git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: one.txt

no changes added to commit (use "git add" and/or "git commit -a")

root@ip-172-31-20-252:/home/ubuntu/gitproject# git add .

root@ip-172-31-20-252:/home/ubuntu/gitproject# git commit -m "commited"

[master b77ab2b] commited

1 file changed, 1 deletion(-)

root@ip-172-31-20-252:/home/ubuntu/gitproject# ls

one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git checkout f2

Switched to branch 'f2'

root@ip-172-31-20-252:/home/ubuntu/gitproject# echo "Line 2 is added by feature branch f2" >> one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git add .

root@ip-172-31-20-252:/home/ubuntu/gitproject# git commit -m "this is feature2"

[f2 b0b7836] this is feature2

1 file changed, 1 insertion(+)

root@ip-172-31-20-252:/home/ubuntu/gitproject# cat one.txt

This is the first line

Line 2 is added by feature branch f2

root@ip-172-31-20-252:/home/ubuntu/gitproject# git checkout f1

Switched to branch 'f1'

root@ip-172-31-20-252:/home/ubuntu/gitproject# cat one.txt

This is the first line

line 2 is added

root@ip-172-31-20-252:/home/ubuntu/gitproject# git checkout master

Switched to branch 'master'

root@ip-172-31-20-252:/home/ubuntu/gitproject# git merge f1

Merge made by the 'recursive' strategy.

one.txt | 1 +

1 file changed, 1 insertion(+)

root@ip-172-31-20-252:/home/ubuntu/gitproject# git merge f2

Auto-merging one.txt

CONFLICT (content): Merge conflict in one.txt

Automatic merge failed; fix conflicts and then commit the result.

root@ip-172-31-20-252:/home/ubuntu/gitproject# git mergetool --tool=vimdiff

Merging:

one.txt

Normal merge conflict for 'one.txt':

{local}: modified file

{remote}: modified file

4 files to edit

root@ip-172-31-20-252:/home/ubuntu/gitproject# git status

On branch master

All conflicts fixed but you are still merging.

(use "git commit" to conclude merge)

Changes to be committed:

modified: one.txt

Untracked files:

(use "git add <file>..." to include in what will be committed)

one.txt.orig

root@ip-172-31-20-252:/home/ubuntu/gitproject# git commit -m "merge conflict is resolved"

[master feed258] merge conflict is resolved

root@ip-172-31-20-252:/home/ubuntu/gitproject# ls

one.txt one.txt.orig

root@ip-172-31-20-252:/home/ubuntu/gitproject# cat one.txt

This is the first line

line 2 is added

Line 2 is added by feature branch f2

root@ip-172-31-20-252:/home/ubuntu/gitproject# rm one.txt.orig

root@ip-172-31-20-252:/home/ubuntu/gitproject# ls

one.txt

root@ip-172-31-20-252:/home/ubuntu/gitproject# git remote add origin https://github.com/Kgaurav8/assignment1git.git

root@ip-172-31-20-252:/home/ubuntu/gitproject# git push origin master

Username for 'https://github.com': Kgaurav8

Password for 'https://Kgaurav8@github.com':

Counting objects: 20, done.

Compressing objects: 100% (10/10), done.

Writing objects: 100% (20/20), 1.62 KiB | 830.00 KiB/s, done.

Total 20 (delta 3), reused 0 (delta 0)

remote: Resolving deltas: 100% (3/3), done.

To https://github.com/Kgaurav8/assignment1git.git

\* [new branch] master -> master

root@ip-172-31-20-252:/home/ubuntu/gitproject#