# Part 10 - Git Rename, Move and Delete Files



# **GIT - RENAMING FILES**

## Q. How to Rename the files in Git?

### METHOD 1 - (Using git commands)

Let us rename the file states.txt to states\_data.txt

#### Syntax:

```
# git mv <current_filename> <new_filename>
```

## Now, execute the Is and git status commands to verify the rename

# Commit the changes to Local Repository -

### METHOD 2 - (using OS Commands)

• Let us try to rename file states\_data.txt to states.txt

```
# mv <current_filename> <new_filename>
```

```
STEP 1: # Is
```

```
[root@localhost projects]# ls

globe s22 sample1 shadow_file start3.txt start5.txt start7.doc start.txt states_data.txt

README.md s33 shadow dump start2.txt start4.txt start6.txt start.pem startup.txt
```

#### STEP 2: # mv states\_data.txt states.txt

- Execute the command mv
- Then verify using Is command

## STEP 3 - Check the git status

```
[root@localhost projects]# git status
 On branch master
 Your branch is ahead of 'origin/master' by 7 commits.
    (use "git push" to publish your local commits)
 Changes not staged for commit:
    (use "git add/rm <file>..." to update what will be committed)
    (use "git checkout -- <file>..." to discard changes in working directory)
 Untracked files:
    (use "git add <file>..." to include in what will be committed)
no changes added to commit (use "git add" and/or "git commit -a")
[root@localhost projects]#
```

Note - \* git sees this as, we have deleted a file and added new file

#### STEP 4 - Fix this problem -

To fix the problem, we have to use below command

# git add -A

- git add -A flag helps to append the local Repository if there is any change in a file of rename, update, delete.
- Now, let us execute command # git add -A

```
[root@localhost projects]# git add -A
```

### Check the git status

```
[root@localhost projects]# git status
 On branch master
 Your branch is ahead of 'origin/master' by 7 commits.
    (use "git push" to publish your local commits)
  Changes to be committed:
    (use "git reset HEAD <file>..." to unstage)
       renamed: states data.txt -> states.txt
[root@localhost projects]#
```

# STEP 5 - Commit changes to git Local Repository using git commit command

```
[root@localhost projects]# git commit -m "renaming the file states-data.txt to states.txt"
[master 59b4ecc] renaming the file states-data.txt to states.txt
1 file changed, 0 insertions(+), 0 deletions(-)
```

Verify using git status command

```
[root@localhost projects]# git status
# On branch master
# Your branch is ahead of 'origin/master' by 8 commits.
# (use "git push" to publish your local commits)
#
nothing to commit, working directory clean
```

# **GIT - MOVING FILES**

#### Q. How to move the files in GIT?

Case Study: Let us move states.txt file into new folder called test

STEP 1 - Let us create folder test and verify it using Is command

STEP 2 - Execute the below command to move the file states.txt to new folder test

```
[root@localhost projects]# git mv states.txt test/
```

#### STEP 3 - verify the movement of file states.txt file into new folder test

```
[root@localhost projects]# ls test/
states.txt
```

#### STEP 4 - check with git status

```
[root@localhost projects]# git status
# On branch master
# Your branch is ahead of 'origin/master' by 8 commits.
# (use "git push" to publish your local commits)
#
# Changes to be committed:
# (use "git reset HEAD <file>..." to unstage)
#
# renamed: states.txt -> test/states.txt
#
```

#### STEP 5 - Now commit the changes to Local Repository

```
[root@localhost projects]# git commit -m "moved the file states.txt to folder test"
[master claf200] moved the file states.txt to folder test
1 file changed, 0 insertions(+), 0 deletions(-)
  rename states.txt => test/states.txt (100%)
```

#### STEP 6 - verify using git status

```
[root@localhost projects]# git status
# On branch master
# Your branch is ahead of 'origin/master' by 9 commits.
# (use "git push" to publish your local commits)
#
nothing to commit, working directory clean
```

# **GIT - DELETING FILES**

### Let us delete the file which is not yet tracked

Use below command to delete the files that are not yet tracked

```
# rm <file_name>
```

```
[root@localhost projects]# touch rmfile
```

```
[root@localhost projects]# rm rmfile
rm: remove regular empty file ârmfileâ? y
[root@localhost projects]#
```

#### CASE STUDY -

 Below error message is replicated when we try to delete the file using git rm command when the file itself is not tracked by git

```
[root@localhost projects]# touch rmfile
[root@localhost projects]# git rm rmfile
fatal: pathspec 'rmfile' did not match any files
[root@localhost projects]#
```

## Q. How to delete the file when it is staged -

Use below command to delete the files in staging area only.

```
# git rm -f <file_name>
```

#### Example:

Created file rmfile and verified by ls

Demonstration of deleting file that is staged.

```
[root@localhost projects]# git add rmfile
[root@localhost projects]# git status
# On branch master
# Changes to be committed:
# (use "git reset HEAD <file>..." to unstage)
#
# new file: rmfile
#
[root@localhost projects]# git rm -f rmfile
rm 'rmfile'
```

## Q. How to delete the files that are already tracked in Local Repository?

• Use below command to delete the files that are in Local Repository

# git rm <file-name>

• Then commit the changes .

Note - \*\* Once the file is committed, we cannot recover the files.

**Expected Interview Questions -**

Q. How do you move or rename the files/folders in Git?

Q. What command do you use to rename the files in Git?

Q. What command do you use to move the files in Git?

Q. How do you delete the files in git that are tracked and in staging area?

# THANK YOU