

GIT COMMON COMMANDS

DevOps Certification Training

+91-7022374614

US: 1-800-216-8930(Toll Free)



GIT COMMON COMMANDS

1: git init

You can create a repository using the command **git init**. Navigate to your project folder and enter the command git init to initialize a git repository for your project on the local system.

\$ git init

```
[ubuntu@ip-172-31-33-5:~/project$ ls
1.txt 2.txt
[ubuntu@ip-172-31-33-5:~/project$ git init
Initialized empty Git repository in /home/ubuntu/project/.git/ubuntu@ip-172-31-33-5:~/project$
```

2: git status

Once the directory has been initialized you can check the status of the files, whether they are being tracked by git or not, using the command **git status**.

\$ git status

```
|ubuntu@ip-172-31-33-5:~/project$ ls
1.txt 2.txt
|ubuntu@ip-172-31-33-5:~/project$ git status
On branch master

No commits yet

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

        1.txt
        2.txt

nothing added to commit but untracked files present (use "git add" to track)
ubuntu@ip-172-31-33-5:~/project$
```



3: git add

If we want to track all the files in the project folder, we can type the command, git add.

\$ git add

```
[ubuntu@ip-172-31-33-5:~/project$ ls
1.txt 2.txt
[ubuntu@ip-172-31-33-5:~/project$ git add .
[ubuntu@ip-172-31-33-5:~/project$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

    new file: 1.txt
    new file: 2.txt

ubuntu@ip-172-31-33-5:~/project$
```



4: git commit

Once the files or changes have been staged, we are ready to commit them in our repository. We can commit the files using the command "git commit -m "custom message".

\$ git commit -m "custom message

```
[ubuntu@ip-172-31-33-5:~/project$ ls
1.txt 2.txt
ubuntu@ip-172-31-33-5:~/project$ git commit -m "First Commit"
[master (root-commit) 6f13532] First Commit
 Committer: Ubuntu <ubuntu@ip-172-31-33-5.us-east-2.compute.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
 2 files changed, 2 insertions(+)
 create mode 100644 1.txt
 create mode 100644 2.txt
ubuntu@ip-172-31-33-5:~/project$
```

5: git remote

Once everything is ready on our local, we can start pushing our changes to the remote repository. Copy your repository link and paste it in the command git remote add origin "<URL to repository>"

 $\$ git remote add origin "<URL to repository>"

```
[ubuntu@ip-172-31-33-5:~/project$ git remote add origin "https://github.com/devop]
s-intellipaat/devops.git"
ubuntu@ip-172-31-33-5:~/project$
```



6: git push

To push the changes to your repository, enter the command **git push** origin
 stranch-name> and hit enter. In our case the branch is master, hence **git push origin master**. This command will then prompt for username and password, enter the values and hit enter.

\$ git push origin master

7: git clone

If we want to download the remote repository to our local system, we can use the command **git clone <URL>.**

\$ git clone < URL>

```
[ubuntu@ip-172-31-33-5:~$ git clone https://github.com/devops-intellipaat/devops.]
git
Cloning into 'devops'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 4 (delta 0), reused 4 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), done.
[ubuntu@ip-172-31-33-5:~$ ls
devops project
ubuntu@ip-172-31-33-5:~$
```



8: git pull

The git pull command is also used for pulling the latest changes from the repository, unlike git clone, this command can only work inside an initialized git repository. This command is used when you are already working in the cloned repository, and want to pull the latest changes, that others might have pushed to the remote repository git pull <URL of link>

\$ git pull <URL of link>

```
ubuntu@ip-172-31-33-5:~/devops$ git pull https://github.com/devops-intellipaat/d/
evops.git
From https://github.com/devops-intellipaat/devops
 * branch HEAD -> FETCH_HEAD
Already up to date.
ubuntu@ip-172-31-33-5:~/devops$
```

9: git branch

Until now, we saw how you can work on git. But now imagine, multiple developers working on the same project or repository. To handle the workspace of multiple developers, we use branches. To create a branch from an existing branch, we type

git branch < name-of-new-branch >

Similarly, to delete a branch use the command git branch -D
branch name>

\$ git branch < name-of-new-branch >



10: git checkout

To switch to the new branch, we type the command git checkout
 tranch-name>

\$ git checkout <branch-name>

```
[ubuntu@ip-172-31-33-5:~/devops$ git checkout branch1
Switched to branch 'branch1'
[ubuntu@ip-172-31-33-5:~/devops$ ls
1.txt 2.txt
ubuntu@ip-172-31-33-5:~/devops$
```

11: git log

Want to check the log for every commit detail in your repository? You can accomplish that using the command **git log**

\$ git log

```
[ubuntu@ip-172-31-33-5:~/devops$ git log
commit dd6974eda23d7644d9cb724a82ebd829c7717ac6 (HEAD -> branch1, master)
Author: Ubuntu <ubuntu@ip-172-31-33-5.us-east-2.compute.internal>
Date: Fri Nov 23 06:21:41 2018 +0000

   adding test file

commit 6f135327baf101788b23e3053a75d828709f6bb7 (origin/master, origin/HEAD)
Author: Ubuntu <ubuntu@ip-172-31-33-5.us-east-2.compute.internal>
Date: Fri Nov 23 05:00:03 2018 +0000

First Commit
ubuntu@ip-172-31-33-5:~/devops$
```



12: git stash

To stash your staged files without committing just type in git stash. If you want to stash your untracked files as well, type **git stash –u**. Once you are back and want to retrieve working, type in **git stash pop**

```
$ git stash.

$ git stash -u

$ git stash pop
```

```
ubuntu@ip-172-31-33-5:~/devops$ ls
1.txt 2.txt 3.txt 4.txt
ubuntu@ip-172-31-33-5:~/devops$ git stash -u
Saved working directory and index state WIP on master: dd6974e adding test file
|ubuntu@ip-172-31-33-5:~/devops$ ls
1.txt 2.txt 3.txt
ubuntu@ip-172-31-33-5:~/devops$ git stash pop
Already up to date!
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
Dropped refs/stash@{0} (7f106523effac55075b2d03387245c487a3de84f)
|ubuntu@ip-172-31-33-5:~/devops$ ls
1.txt 2.txt 3.txt 4.txt
ubuntu@ip-172-31-33-5:~/devops$
```



13: git revert

git revert <commit-id> command helps you in reverting a commit, to a previous version

\$ git revert < commit-id>