# git init :

Git Commands :

creates empty local repository in the present directory

## beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ git init Initialized empty Git repository in /home/beryl/Desktop/learngit/.git/

beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ git status On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

1. **git status :**

displays the state of working directory and staging area

beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ **touch file.txt**

## beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ **ls file.txt**

1. **git add :**

**Git add \*. <file type> :** adds all the files with .js extension from the present directory to the staging area

adds the file in the staging area

beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ **git add file.txt**

## beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ git status On branch master

No commits yet

**Changes to be committed:**

(use "git rm --cached <file>..." to unstage) new file: **file.txt**

1. **git rm –cached :** deletes index.htm from the staging area.

**git rm --cached -r :** deletes all the files from the staging area.

beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ **git rm --cached file.txt**

*rm 'file.txt'*

## beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ git status On branch master

No commits yet

***Untracked files:***

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

***file.txt***

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

1. **git commit :** Saves the files present in staging area to the local git repository with the provided message.

beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ **git commit -m file.txt**

## [master (root-commit) f5a93bc] file.txt 1 file changed, 1 insertion(+)

create mode 100644 file.txt

1. **git log :** The **git log command** displays all of the commits in a repository's history.

## beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ **git log**

**commit** 0be862a869c760fca918805c788092b4d32b7855 (HEAD -> master) Author: Onkar <[onkar.singh@berylsystems.com](mailto:onkar.singh@berylsystems.com)>

Date: Thu Apr 22 11:08:58 2021 +0530

new version

**commit** f5a93bc99d94383a7b0abd026fe6e13346089574 Author: Onkar <[onakr.soingh@berylsystems.com](mailto:onakr.soingh@berylsystems.com)>

Date: Thu Apr 22 10:58:57 2021 +0530

file.txt

1. **git branch :** shows current branch and create also

beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ **git branch dev**

1. **git checkout :** switches from current branch to signin branch. beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ **git checkout dev** Switched to branch 'dev'
2. **git merge : Merging** is **Git's** way of putting a forked history back together again. The **git merge command** lets you take the independent lines of development created by **git** branch and integrate them into a single branch.

**git merge <brance\_name> :** git merge dev

# git config --global user.name <Your\_name> :

## sets username as ‘Onkar’ with respect to git configuration

### sets email as ‘ Your email ’ with respect to git configuration :

git config --global user.email ‘[onkar.singh@berylsystems.com](mailto:onkar.singh@berylsystems.com)’

1. **git remote add origin** [**https://github.com/1Onkar/training**](https://github.com/1Onkar/training) **:**

Creates a new remote called origin at the respective url

1. **git push :** uploads local repository content at remote repository beryl@beryl-Latitude-E6520:~/Desktop/learngit$ git push origin dev Username for 'https://github.com': 1Onkar

Password for 'https://1Onkar@github.com': Enumerating objects: 12, done.

Counting objects: 100% (12/12), done. Delta compression using up to 4 threads Compressing objects: 100% (7/7), done.

Writing objects: 100% (10/10), 971 bytes | 242.00 KiB/s, done.

Total 10 (delta 2), reused 0 (delta 0), pack-reused 0 remote: Resolving deltas: 100% (2/2), done.

To https://github.com/1Onkar/Git\_learning.git cdb093c..2341d7f dev -> dev

1. **git pull :** updates the local repository to match the content. beryl@beryl-Latitude-E6520: ~/Desktop/learngit$ git pull remote: Enumerating objects: 4, done.

remote: Counting objects: 100% (4/4), done. remote: Compressing objects: 100% (3/3), done.

remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 Unpacking objects: 100% (3/3), 832 bytes | 832.00 KiB/s, done.

From https://github.com/1Onkar/Git\_learning ed0ecd1..ae4c3fc master -> origin/master

There is no tracking information for the current branch. Please specify which branch you want to merge with.

See git-pull(1) for details.

git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with: git branch --set-upstream-to=origin/<branch> master

1. **git clone** : copies the targeted remote repository to the local repository.

**SYNTAX :** git clone < file URL link >

1. **ssh key :** An **SSH key** is an alternate way to identify yourself that doesn't require you to enter you username and password every time.

beryl@beryl-Latitude-E6520: ~$ **ssh-keygen -t ed25519 -C** "[onkar.singh@berylsystems.com](mailto:onkar.singh@berylsystems.com)"

**eval** "$(ssh-agent -s)"

Agent pid 2825

**ssh-add** ~/.ssh/id\_ed25519

Enter passphrase for /home/beryl/.ssh/id\_ed25519: cat **~/.ssh/id\_ed25519.pub**