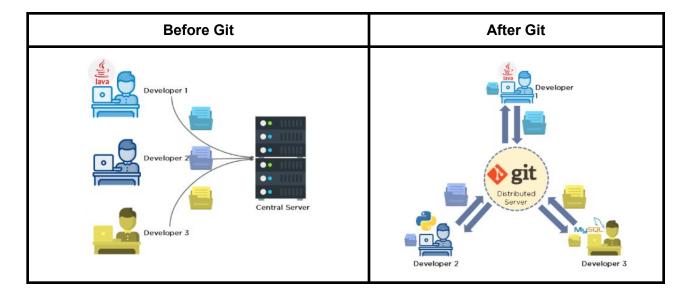


Introduction to GIT

Introduction to Git

Git is an **Open-Source Version Control System** used by the **DevOps** team for **source code management**. It is used to track changes in the source code and enables many developers to work together in non-linear developments. It efficiently handles small to large projects.



Importance of Git

- Tracks history
- Distributed development
- Supports Collaboration
- Open-Source
- Supports non-linear development
- Scalable
- Creates backup
- Easy branching

The use of Git will ultimately ensure faster delivery of projects and also improve the quality of source code.



Git Installation

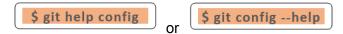
- Step 1
 - Download the latest version of Git and then follow the steps below, with help of the <u>official link</u>.



• Step 2: Check the Git version



- Step 3
 - Use the following command for any help



o Help command provides manual from the help page

Steps to create a local repository

Create a local repository



Initialize the directory



Track Status

• \$ git status command is used to check the status.



 This command gives information about what files are modified and what files are in the staging area.



Commit Files in Git

To commit files in git \$ git commit-m "commit message" command is used.

\$ git commit -m "first commit"

- **git commit** tells git that changes made in files are ready to commit. By that time the git has to take a snapshot.
- -m stands for message.
- "first commit" commit message. It can be anything.

Rename Files in Git

• \$ git mv command is used to rename the file in the command line.



• Replace **old_FileName** and **new_FileName** with the corresponding file names.

Delete Files in Git

• \$ git rm command is used to delete a file and this command will delete the file from the filesystem as well.



Rename and **Delete** commands alone won't affect the git repository unless these changes are committed using **Commit** command.