



LOGICLABS TECHNOLOGIES

# AWS Devops

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## GIT

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# GIT

- Git is a DevOps tool used for source code management. It is a free and open-source version control system used to handle small to very large projects efficiently. Git is used to tracking changes in the source code, enabling multiple developers to work together.
- **Features of GIT**
  - Tracks history
  - Free and open source
  - Creates backups
  - Scalable
  - Branching is easier
  - Mistakes are easy to undo

# GIT

- **Types of Version Controlling**
- Centralized Version Controlling
- Distributed Version Controlling

Sr. No.	Key	Centralized Version Control	Distributed Version Control
1	Working	In CVS, a client need to get local copy of source from server, do the changes and commit those changes to central source on server.	In DVS, each client can have a local branch as well and have a complete history on it. Client need to push the changes to branch which will then be pushed to server repository.
2	Learning Curve	CVS systems are easy to learn and set up.	DVS systems are difficult for beginners. Multiple commands needs to be remembered.
3	Branches	Working on branches in difficult in CVS. Developer often faces merge conflicts.	Working on branches in easier in DVS. Developer faces lesser conflicts.
4	Offline Access	CVS system do not provide offline access.	DVD systems are workable offline as a client copies the entire repository on their local machine.
5	Speed	CVS is slower as every command need to communicate with server.	DVS is faster as mostly user deals with local copy without hitting server everytime.
6	Backup	If CVS Server is down, developers cannot work.	If DVS server is down, developer can work using their local copies.

# GIT

- **Terminologies Used in GIT**
- **Working Directory:** It is the location where developer saved the source code is saved.
- **Branch:** A branch is a version of the repository that diverges from the main working project.
- **Master/Main:** Master/Main is a naming convention for Git branch. It's a default branch of Git.
- **Merge:** Merging is a process to put a forked history back together.
- **Pull:** The term Pull is used to receive data from GitHub.
- **Push:** The push term refers to upload local repository content to a remote repository.
- **Repository:** Repositories in Git is considered as your project folder.

# GIT

- Create a folder in your machine
- Create some files in the same folder
- Put some code in the file
- Code: [Click Here](#)
- Convert folder into working directory  
git init

# GIT

- Open GIT Bash in the Devops folder

- **Enter the command**

`git init`

- How to see hidden folder in Windows Machine: [Click Here](#)
- Configure User name & Email ID

# GIT

- **Configure User Name**

```
git config --global user.name "ankitnarula1991"
```

- **Configure Email ID**

```
git config --global user.email  
ankitnarula1991@gmail.com
```

- **To check the configurations**

```
git config --global --list
```



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