

09.06Apr. VCS Tools

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SDLC

Agile

DevOps

SysOps

CloudOps

GitOps

CI/CD

Benefits

DevOps Stages

DevOps Lifecycle

Today: VCS & Build Tool

VCS

- Historical data
- Central vs Distributed
- Git Standard Commands
 - Github
 - Bitbucket
- Important Commands:
 - Clone - Copy from Remote to Local
 - Init
 - Add
 - Commit
 - Push
 - Pull
- Repository = Source Code of Project (can have multiple files)
 - Local - Create Empty Local Repository using git init Command (Empty Folder)
 - Remote - Github Website (Github Account)

Windows/Unix:

\$ mkdir Project1

\$ cd Project1

Git Command:

\$ git init

Windows

\$ dir --> ONLY DISPLAY Non-Hidden Files & Folders

\$ dir /a:h --> DISPLAY All Hidden & Non-Hidden Files & Folders

Unix (Linux-Ubuntu, Kali/Mac):

\$ ls --> ONLY DISPLAY Non-Hidden Files & Folders

\$ ls -a --> DISPLAY All Hidden & Non-Hidden Files & Folders

Create File(Windows):

\$ notepad a1.txt

Write message --> **Save and Exit**

Create File(Unix):

\$ touch a1.txt

\$ nano a1.txt

Write Message --> Save and Exit(ctrl+x --> y ENTER)

Check Status of Repo:

\$ git status = find changes(In TRACKED Files and Non-TRACKED Files) in current repository

1. Create Local Repo (**\$ git init**)
2. Add New Files (Notepad, Nano, etc.)
3. Add Files into Git (**git add .** Or File Name)
4. Add Message to Git Local Repo (**git commit -m "MESSAGE"**)
5. Configure(Origin, UserName, Email)
6. Push

Add File(s)

\$ git add a1.txt --> Single Non-Tracked File

\$ git add . --> All Non-Tracked Files

Labels/Commit:

\$ git commit -m "Message"

PUSH:

Repo. Local --> Where(Origin=Mumbai, user.name, user.email)--> Remote Repo.(Mumbai)

- 1) Local Repo ---> Remote Repo (init, Changes ,add, commit, config- [**user name, email, origin**] , push)
- 2) Remote Repo --> Local Repo (clone)

\$ git config user.name

\$ git config user.name GithubUserName

\$ git config user.email

\$ git config user.email mujahed.mca@gmail.com

Add origin(Where to Push):

\$ git remote add mumbai <https://github.com/mujahed85/NEMCO27Mar23.git>

\$ git push -u mumbai Local Repo. ---> Remote Repo

Basics Level:

1. Overview of VCS
2. Central vs Distributed VCS
3. Introduction to Git

Intermediate Level:

1. Installation & Setting up git
2. Create & manage git Repository
3. Introduction to Github
4. Manage Remote Repository
5. Collaborate Git Repository(Local/Remote)

Advance Level(Release):

1. Branching