Git

Monday, 1 August 2022 1:00 PM

Git is a Devops took used for source code management and version Contozeel.

It also used to tracking changes in the source code, enable multiple developer to work together on a protect.

Benefits of Git

Every devloper has an entain copy of the code on their local systems. Any changes made to the source code can be traveted by others. There is a regular communication between the developer.



Features of Git. Tracking history. Force and opensourse Creede Bekups Scelable support colleboration Easly creet branch Distoributed development

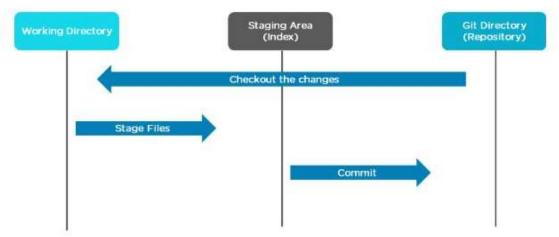
Crit workflow is divided into 3 types:

1) Working directory > Write your code and modify file stowed in this directory.

2) Staging area > Stage the file and add snapshets of them to your staging area. Then you can commit the File.

3) Grit directory & Pentoon a commit that stores the snepshots paramently to your git directory.

> Chek out any existing version, make changes, stage them and commit.



Branch in Crit

Bozoneh in git is used to keep your changes until each one woody. You can do your work on a borarch while the main broanch which is called moster branch romain stable.

After you can done with your work you can mange it with the main boreench.

Common git command

- -> git init -> You can encerte local repository cesting this command. (where you write rough
- -> git status -> Once the directory has been initilized you can cheek the status of the file whether they are being tracked by git or not.
- -> git add -> This command add all File working directory to stage area. Ex! git add (filenam) -> for single File
- get add. I For all File present inside this directory. -> git commit -> This command help to move File Forom stage cover to local repository.

Ex! - git commit -m " mcssage"

The git only working on local machine. To make it available in world wide we have to host all code on a central platform like & GitHub.

Crithub is a cloud based scourse that helps developed to stone and manage their coole, as well as track and and contoral changes to their code. Common git commond

- -> git remote add origin "url.git" -> Once everything is measly on our local, we can start pushing our changes to the remote repository. Copy your repository link and poste it in the command.
- -> get push origin moster -> It upload your code present inside local repository to monote nopo which is girthulp repository. $E_{\rm X}:-$ girt puch onigin < bronch-name>
- of get clone (unl) of 1t download overnote ocpository to local system.
- -> git pull (unl) -> It also download wenote organitory to local system Ex! git pull origin moster This comend sync wenner nepo with lovel nepo get pull (well) This command download all cade with latested version.
- I git branch It create multiple branch in same or-pository. And boranch is use for hardle the workspace of multiple developer. Exi- git branch version2
- \Rightarrow git boraneh -D \langle boraneh name \rangle \rightarrow 1t delete the boraneh. Ex: git board - D version2
- + git checkout (branch name) -> It switch between one branch to another beauch. Ex! -> git checkout version 2 This command switch workspace moster boranch to version 2 branch. git cheekout mester This command switch workspace version? Granch to master boards.
- ightarrow git log ightarrow To cheek the log Fox every commit details in repository.
- → git stash → This can be helpful when you want to switch boranch, but about want to seve your work to your git repository
- →git stash -u > 1t strash all antracked File.
- -> git stash pop -> It book to working file which is not saved.
- -> git nevent -> It neventing commit to a prievious Ex! - git nevent &commit id)
- -> git diff -> It helps us in cheeking the difference between two version. of a file. En! git diff (1st commit id) (2nd commit id)

Crit US Crittub

Git Heub 7) It is a cloud storage service 7 It is a software It is a hosting service For git It is a version contral system to manage code history ? Git is maintain by microsoft. ? Github is hosted on the web. -> Chit is maintained by linex > Cut is installed locally on the system -) Crit has no user management Feature 7 It has a builtin user management Frateur 1t is open source It is force there and pay for use there.