



DECEMBER 11, 2019

DevOps Classroom Series – Git – 11/Dec/2019

Installing Git

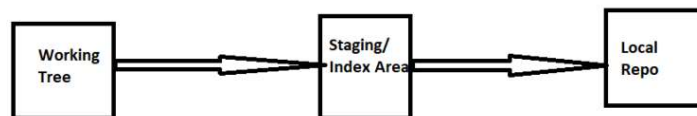
- Windows:
 - Download software from [here](#)
 - Chocolatey:
 - Install from [here](#)
 - Open the Powershell and execute `choco install git`
- Linux:
 - Ubuntu: `sudo apt-get update && sudo apt-get install git -y`
 - Redhat: `sudo yum install git -y`
- Mac:
 - Install homebrew and xcode

Git Operations on Node (Local)

- Lets create a git Repository
- Create a folder and cd into it

```
mkdir learninggit
cd learninggit
```

- Mark this folder into repository by executing `git init`
- In Git we have 3 logical areas
 - Working Tree
 - Staging Area/Index Area
 - Local Repo / git database
- Local Repo Workflow
 - Make changes in Working Tree
 - Add the changes to Staging Area
 - Save the changes from Staging Area to Local Repo.



- Lets try this WF
 - Create two file 1.txt and 2.txt
 - Execute the command `git status`
 - Now lets add the changes to staging area

```
git add 1.txt
git status
git add 2.txt
git status
```

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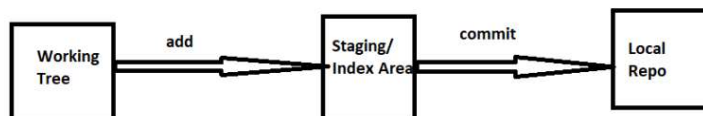


- Email
- Message

- Username and Email can be configured once at the system level, but message has to be passed for every commit.
- To configure email and username

```
git config --global user.name "<yourusername>"
git config --global user.email "<youremailid>"
```

- To commit the changes now execute `git commit -m "First Commit"`



- To check the history, execute the following command `git log`
- For every change you get unique commit id as shown below

```
qtdevops@qtlinuxvm: ~/learninggit$ git log
commit 465d0ab3ad1c8840fd6ac4889b7151d5003d129a (HEAD -> master)
Author: Ubuntu <qtdevops@qtlinuxvm.ncratcjhblcevhsi2mabw53q3a.gx.internal.cloudapp.net>
Date:   Wed Dec 11 02:49:54 2019 +0000

    First Commit
```

- Create a new folder called as docs
- Create one more folder called as test
- In the test folder create a new file called as 3.txt

```
qtdevops@qtlinuxvm:~/learninggit$ tree
.
├── 1.txt
├── 2.txt
├── docs
├── test
│   └── 3.txt
└── 2 directories, 3 files
```

Handwritten note: "in git" with an arrow pointing to the files 1.txt and 2.txt.

- Now Execute `git status` and you will observe docs folder information is not shown in `git status`. Git never identifies empty directories.
- Now add the change to staging area `git add test/`
- Now execute the following commands and observe the output info

```
git commit -m "Second Commit"
git status
git log
```

Popular Cheatsheets

- [Git Hub](#)
- [Atlassian](#)

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