Version Controlling and Code Repository

Version Controlling also called as VCS:

VCS- Version controlling system is used to maintain the code changes based on the versions

1. Centralized VCS : SVN (Sub Version) , CVS ( required internet to connect between system and server, they are maintain the codes in Server -> this is the drawback )

2. Distributed VCS : maintain the code in our local system instead of maintaining in the server, connection between system and server not required 24\*7, whenever you want to update the code that time make the connection to github and update

Code Repository:

Used to maintain the code in the centralized server

Git Hub, Bit Bucket, Azure Repo, Oracle Repo, Google Repo, Amazon Repo

Git Hub is free

Install the Git

Download git for window from the below link

Git-scm.com/dowmloads

Install in the local system

C:user:.gitconfig folder

Right click -> git bash

Command: git init -> initialize empty git repository

Onetime activity to update the username and email to make connectivity between git and github

git config --global user.name “”Arthi”

git config --global user.email “arthiloganathanqa@gmail.com”

Basically this information will be updated in .gitconfig folder (we can also directly update these information here)

Flow:

WD(working directory) Unstagging -> staging Area-> Commit Area->Git Hub(Code Repo)

GIT Command

1.Git init -> Initializing the git folder

2.git config --global user.name “”

3.git config --global user.email “”

4.git status 🡪 to track the status of the changes

5.git add “filename” -> it will move the file from unstagging area to staging area

6.git add. 🡪 move all the files from untracking files to staging area

7.git commit –m “sample I have created 2 files” 🡪 it will create the version here

8.git log -> to see the commit log

9.git commit –am “This command is applicable only when we edit the existing file ”

10. :wq -> to come out of log file (if we have created more than 4 version then it will automatically create a file )

11. git remote add orgin “https://github.com”copy the path from github 🡪 it will build the relation between git and github (it can be any repo)

12.git push orgin master 🡪 to push all the commited code from local to repo (orgin is repo folder name)

It will ask for authentication

Generate the token