Day 3&4 Class of DevOps

Agenda – Git and GitHub

1. What is Git

* Git is a platform to use repository code to local machine to remote cloud machine

1. How to download and install Git

* Go to browser and hit Git install it would be redirect to Git download page there you can download the latest version of software
* Once you download the Git software you need to install at your machine with your customized priorities once Git got installed you get a Git screen is know as Git bash
* Once we get the Git bash you can ready work with Git

1. Commands for Git

* Ls –ltr - to list the current directory contents
* ls - list the files
* mkdir - make directory
* touch - to create the file
* mv - to rename the file or move the file/directory
* cd - navigate through directories
* vi - to write of fill the content at file
* :wq - save and quit the file
* :q - quite the file
* :q! - quite the file with changes
* Clear - to clear the git bash screen
* History - to know the history we used commands in git bash
* git init - to integrate the file to git repository
* git status - to know the status of git repository
* git add – to stage the files
* git add . – to stage all files
* git commit - to commit the files
* git commit –m <filename> - it is used to changes local repo to remote cloud repository
* git push – It is used to move local repository to remote repository

1. How to create GitHub account

* First of all we need to go GitHub.com the we need to signup and we need to setup the account the we get an USERID and PASSWORD and GitHub url we need to save it

1. How to upload the files from local repository to remote cloud repository

* We need to select the directory which we want to upload to remote repository then we need to create the .git initialization for protect the file for github and change the user from main to master then we can get an access to upload the file to github

Process to upload the file files from local repository to remote repository

* First of all we need to choose the file the we need to stage the file to state the file and it would also commit the file we need to use command is git add <filename>

If we need too more files we use command as git add .

* Once we stage the file we need to check the status to check the command was git status once it got staged file name should be changed into green color new file: filename.py
* We need to give the commitment to file for local repository so we need to use command as git commit –m “directoryname”
* Once we commit the file and we need to check the status using command git status it would give the nothing to commit, working tree clean
* Once it got commit we need to push the file from local repository to remote repository we need to use the command as git push

Once we hit the git push we get

$ git push

fatal: No configured push destination.

Either specify the URL from the command-line or configure a remote repository using

git remote add <name> <url>

and then push using the remote name

git push <name>

So we need to use command as git remote add <name> <url>

Here name should be type as orgin/master

Url means github generated URL

Once we give name as well url you need to use command as git push <name> then it would be directly add to GitHub then we can access though GitHub url