SDLC : Software Development Life cycle

Waterfall model

Increment model

V model

Agile

Scrum

Kanban

Etc

Maven , Ant and Gradle : build tools in Java technologies.

So maven, ant or Gradle part of DevOps.

When we write the program we need to compile the program, run program , then documentation, then create executable file ie jar, war, ear, .exe, object file

Build tool :

Dev1

Dev2   Continuous Integration and Continuous delivery

Dev3

Ansible Server

Host Machine (server1)   java

Host Machine (server2)   java

Host Machine (server3)   java

Host Machine (server4)   java

Docker : it is use to create containerization application.

Virtualization : it is use to create abstract version of OS

Containerization: it is use to create abstract version of application

Kubernetes: is use to maintain more than one

Container. Container management tools.

Container is responsible to run the application

Using docker image we will create the container.

Nagios: continuous monitoring tools for more than one host machine.

Tera form :

        Command line interface or API (Application Programming interface)

        To interact with any cloud.

AWS

Azure

Google

Oracle

Terraform : is one of most infrastructure as a code used by devops teams to automate

Infrastructure task with respective any cloud.

GUI Vs Command base

Unix commands :

pwd :Present or print working directory : it provide the path

ls : display all files and folder present in current directory.

mkdir : it is use to create the folder.

cd : change directory :

touch filename :   it is use to create empty file

cat >> filename.txt   : if file not present it will create and open the editor mode

                         to write the contents inside a file.

Ctr + C or Ctr +D to to exit from editor mode.

vi filename   this command open the file in vi editor.

To move command mode to editor mode hit : i key

Write the contents then move from editor mode to command mode

Esc

:wq!   W : write or save , q means quite

rmdir folderName   : delete the folder

rm filename   : delete the file

Git Git is an open source tool which help to keep track or record the flow of the application.

Git also known as sub version control.

git --vesion   find the version of the git.

git init   this command is use to make normal folder as a local repository.

ls -a   this command is use to display .git hidden folder.

git status   it is use to display the current status of repository.

 git add filename   it use to add the file or folder to normal directory to stagging area.

git commit -m "message"   this command is use to move file or folder

                             from stagging are to local repository.

git config --global user.name "Akash"

git config --global user.email "akash300383@gmail.com"

git add .   : it will add all files and folder present in current directory.

git branch   : branch is like a pointer which hold more than one commit details.

By default git provided default branch ie may be master or main.

git branch   : it display all branches present in local repository.

git branch branchName   this command is use to create new branch

git checkout branchName   this command is use to switch from one branch

                             to another branch

git merge branchName   this command is use to merge all task done in

                             user defined branch or features branch to current branch

git branch -D branchName   this command is use to delete user defined branch

git branch -M akash   this command is use to rename the branch

git checkout -b Test   this command is use to create new branch

                             as well as switch inside that branch

Now create new file with same message.

git logs   this is use to find all commit details

==`git reset –hard commitId`==   to reset you application status that particular position.