

Day 1

10/7/2023

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.

Ctrl + C or Ctrl +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 tagging area.

`git commit -m "message"`      this command is use to move file or folder from staging 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.