**DevOps Master Training**

**1.Linux Commands**

* About Linux
* Linux Distributions
* Linux Architecture
* Basic Linux Commands
* File Permission
* Shell Scripting Introduction
* Shell Scripting Basics

**2. Software Development Lifecycle**

* About SDLC Process
* Different SDLC Models
* About Waterfall Model
* Merits and Demerits of waterfall Model
* About Agile Model
* Merits and Demerits of Agile Model
* Agile Execution Process

**3. Source Code Management**

* About Version Control System
* Central VCS vs. Distributed VCS
* About Git Hub
* Repository Creation
* Git Lifecycle
* git commands
* git undo operations-git revert, reset and check out
* git tags,clean,cherry-pick
* gitmerge,rebase
* git merge conflict
* git PullReuest
* git branching stratagies

**4.** **containerization Tool : Docker**

* Docker Architecture
* Docker Lifecycle
* Docker Registry
* docker commands
* docker volumes vs. bind mount
* docker file
* dockerfile instruction
* docker compose
* docker Network
* docker swarms cluster

**5. Configmanagement Tool:Ansible**

* Ansible Architecture
* Ansible Installation
* Adhoc commands
* configure Master & Remote
* Playbooks
* package installation & uninstallation
* COPY Module
* FETCH Module
* File Module
* Template Module.j2
* Ansible Tags
* Ansible Roles

**6. OrchestrationTool : Kubernetes**

* K8S Architecture
* Kubadm baremetal/Nativeinstallation
* kubernetes cluster configuration
* Master-slaveconfig
* kubernetes Deployment files
* Pods creation
* service creation
* Kubernetes Deployment Stategys
* Ingress Rules Configuration
* K8S-Dashboard Configuration
* Custom Image Deployment using kubernetes DashBoard
* EKS On AWS Environment

**7. CI Tool Jenkins**

* Jenkins configuration
* Jenkins Jobs
* Jenkins plugins
* Master-Slave config in Jenkins
* Chain Jobs Creations
* Jenkins Pipelines
* Jenkins-GitHub Integration
* Jenkins-GitHub-Maven Integration
* Jenkins-GITHUB-Maven-EC2Integration
* Jenkins-GITHUB-Docker,Ansible Integration
* scripted pipeline-Groovy declarative scripting

**8. A** **Build Tool Maven , MSBuild**

* About Maven
* About POM.xml
* About Dependencies
* About Artifacts
* Maven Phases

**9. QA Tool : SonarQube**

* SonarQube Installation
* Executing Applications
* Jenkins Integration with SonarQube

**10.Provisiong Tool Terraform**

* Basics of Terraform
* End To End Application execution
* Architecture Intialisation