



## Curriculum Of Devops

### **CLOUD COMPUTING**

- What is Cloud Computing?
- Types of Cloud Service Provider?
- What is Regions & Zones
- What is Security Group & Key pair?
- What is AMI & Custom AMI?
- What is VPC, Subnet & Gateway?
- What is Load Balancer?
- What is Instances?

### **INTRODUCTION OF LINUX**

- Introduction of Linux?
- Introduction of Linux Directories?
- Introduction of Linux User interfaces?
- Create Linux User & Login
- How to Create File & Directory?
- How to Edit Files using Vim Command
- How to install Packages in Linux?
- How to move, copy data one directory to other Directory?
- How to Deploy Linux Server in Cloud?
- How to connect Linux with Putty

### **WHAT IS DEVOPS, GIT & GIT HUB**

- What is Devops?
- Introduction of GIT & Git Hub?
- How to install Git & Create Local Repo?
- How to Commit data in Git Local Repo
- How to Push Data git Local Repo to Github
- How to Pull Data Github to Git local Repo?
- What is Branch & Create Branches?
- How to merge Branches?
- What is Git Conflit
- What is Git Revert?
- How to Clone Git hub Repo?
- What is Git Reset?
- How to Remove untracked file

### **INTRODUCTION OF DOCKER**

- Introduction of Docker?



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- Introduction of Docker Hub?
- How to install Docker in Linux?
- What is Docker image & Create Image?
- What is Docker Container & Create?
- How to Push and Pull image in Docker Hub?
- How to Create Docker Custom Image?
- How to Create Custom Docker Container?
- How to start, login, delete container?
- What is Docker file & Create Docker File?
- How to Create Image via Docker File?
- What is Docker Volume & Create?
- How to Share Docker Volume Between Container and Host instances
- What is Docker Compose?

### INTRODUCTION OF JENKINS (CI/CD)

- Introduction of Jenkins?
- How to install Jenkins?
- What is Jenkins Master & Slave
- How to Deploy Master and Slave Setup
- Introduction of Jenkins Plug-in?
- How to install Jenkins plug-in?
- How to create login Credentials
- How to Create Jenkins User
- How to Provide user permission & Role
- What is Jenkins pipelines?
- How to Create Pipelines?
- How to build & execute pipelines?
- How to push & Pull Code Via Jenkins
- How to Build Code via Jenkins
- Project-Using AWS Cloud, Linux, Git, Github, Docker and Jenkins

### INTRODUCTION OF KUBERNETS

- Introduction of Kubernetes
- Introduction of K8s Cluster
- Introduction of AWS IAM Role
- Introduction of AWS Route 53
- Introduction of AWS S3 Storage
- What is K8s master and slave node
- How to Deploy Kubernetes Cluster



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- What is Controller use of Controller node
- What Pod how to Create Pod
- What is Replica Controller
- How to Create Replica Controller
- Introduction of K8s Services
- How to Create K8s Services
- What is Kubernetes Labels
- How to Add labels
- How to Access K8s Pods Services
- How to Create Network
- How to Create YMAL File
- How to Build Image Via YMAI File
- How to Create Container inside the Pod
- Create Multi Container inside the Pod
- What is Mini-cube , Use of Mini Cube

### INTRODUCTION OF ANSIBLE

- Introduction of Ansible
- What is Ansible Server & Host infra
- How to Create Ansible Client and Host infra
- How attach Host with Ansible Server
- What is Ansible AD-Hoc Command
- What is Ansible Modules & Playbook
- How to Create Play Book
- Use of Variable in Playbook
- Use of Handlers in Playbook
- Use of Conditions in Playbook
- What is Ansible Vault
- Use of AWS Vault
- Project