

Vocational Training- Devops

Course Syllabus

1.Overview of Devops

- What is Devops?
- Why Devops?
- Devops Market Trends
- Devops Ecosystem

2.Version Control With Git

- What is Version Control?
- What is Git
- Git & Github
- Git Installation
- Git Commands
- Git Branching

3. Virtualization & Containerization

- What is Virtualization
- What is Containerization
- Introduction to docker & its Architecture
- Creating Dockerfile & Docker Image
- Creating Docker hub account and pushing files
- Running & Accessing Docker Containers

4.Containerization Using Kubernetes

- Introduction to Kubernetes
- K8S Architecture

- Installation of K8S
- Concept of pods, Namespace, clusters, replica
- Spinning up K8S Cluster in ubuntu vms
- Understanding Yaml
- Understanding HELM Chart
- Creating service & deploying in on K8S with HELM

5.CI /CD Pipelines

- What is CI/CD Pipeline
- What is Jenkins & Why to use it?
- Architecture of Jenkins
- Adding nodes and creating first pipeline
- Building using Maven

6.Configuration Management

- What is Configuration Management?
- Tools used in Configuration Management
- Basic and installation of Ansible
- Architecture of Ansible
- Control Machine & Node Machine
- Inventory, Host & Groups
- Playbooks

Creating 1 Project.

