

DevOps Course Content

Introduction to Devops

- Define Devops
- What is Devops
- Why Devops?
- History of Devops
- Devops Stakeholders
- Devops Goals
- Important terminology
- Devops perspective
- Devops Tools
- Configuration management
- Continuous Integration and Deployment

GIT Lab : Version Control

- Introduction
- Gitlab components & Navigation
- Git Basics
- Basic code creation in Gitlab
- Gitlab CI/CD Functions
- Gitlab Package & Release Features
- Gitlab security Scanning

Jenkins

- Introduction.
- Installation
- Jobs
- Working with Deployment Pipeline
- Automated Workflow
- Using gated Deployment
- Deployment Roll backs
- Creating one click deployment

Docker– Containers.

- Introduction
- Architecture
- Installation
- Docker Hub.
- Custom images
- Docker Networking
- Docker Compose

Ansible

- Introduction to Ansible
- Installation, Configuration management & Orchestration
- Introduction Playbooks
- Continuous Deployment using Ansible
- Playbook's Deep-dive
- Roles

Kubernetes

- Installation, Configuration and Validation
- Kubernetes Architectures
- Introduction to Volumes
- Ingress, Dashboard and Kubernetes Security
- Monitoring
- Manage Managing Recourses
- Storage
- Managing Stateful set
- Logging and Monitoring
- Helm

Terraform:

- Introduction
- Getting Started with terraform
- Terraform Modules
- Terraform Scripting in a more organized way
- Terraform Integration
- Terraform with Multi cloud Lab
- Terraform best Practices