

Module01: Introduction of DevOps

- Understand DevOps, its roles and responsibilities
- DevOps problems and solutions
- Identify cultural impediments and overcome it
- Understand the infrastructure layouts and its challenges
- Network Concepts at Enterprise Scale

Module 2: Version Control, GIT

- Introduction
- How GIT Works
- Working Locally with GIT
- Working Remotely with GIT
- Branching and Merging
- Resolve merge Conflict

Module 3: Jenkins

- Introduction of Jenkins
- Install and setup Jenkins
- Introduction About Maven project
- Setup jenkins with Maven Project
- continuous Build and Deployment
- Build Pipeline View Project
- Generate Reports & Enable Mail Notification
- Jenkins to run script remotely
- Add jenkins node/slave
- Run Jenkins behind apache proxy

Module 4: Docker

- Docker Introduction
- Docker Installation
- Major Docker Components
- Manage Docker Images & container
- Manage Docker images from Dockerfile
- Docker Volume
- Docker Networking
- Docker Swarm (Cluster Management)

Module 5: Ansible

- Introduction About Automation
- Ansible architecture

- Ansible Modules
- manage tasks by Add-hoc method
- how to write Playbooks
- Variables And Facts In Playbook
- Condition & Loop and Notify & handler In playbook
- Manage Templates file And Roles Structure
- Vault Encryption In ansible
- Ansible Integration with Aws Cloud
- Ansible Tower Management

Module 6: Terraform Automation with AWS

- Introduction To Terraform
- What Is Terraform?
- Infrastructure as Codei.
- Install Terraform
- Build Infrastructure
- Change Infrastructure
- Destroy Infrastructure
- Terraform Remote
- Resource Dependencies
- Provisioning on AWS

Module 7: Monitoring with Nagios

- Nagios Overview
- Understand Nagios Architecture
- Install and Setup Nagios on Linux
- Install and setup NRPE client
- Setup monitoring
- Enable email alert