

Introduction to DevOps

- What is DevOps?
- History of DevOps
- Dev and Ops
- DevOps definitions
- DevOps and Software Development Life Cycle
- DevOps main objectives
- Infrastructure As A Code
- IaaS Overview
- Paas Overview
- DevOps on the Cloud
- Prerequisites for DevOps
- Tools (Jenkins, Chef, Docker, Vagrant and so on.)
- Continuous Testing and Integration
- Continuous Release and Deployment
- Continuous Application Monitoring



Linux

- Over view of Linux and Opensource
- How and where to Install Linux
- Command line basics
- Using command line to get help
- Using Directories and Listing files
- Turning commands into script
- Security and File system

Puppet

- Introduction
- Puppet Components
- Building Modules and Classes
- Puppet Management
- Writing some simple code and apply on clients

Docker

- Basics of Docker
- Installation and Image setup
- Creating images from containers
- Docker build and deployment

Vagrant

Vagrant Introduction
Setting up Vagrant
Using Vagrant
Automated Provisioning

GIT

Introduction
Installation and configuration
Managing GIT

Nagios

Introduction
Installation and configuration
Monitoring servers and applications using Nagios

AWS (Amazon Web Services)

Concepts of AWS
Creating AWS instances
storage types
Elastic IP etc...

Jenkins and Build Automation

Introduction to Jenkins
Installation and configuration
Managing Jenkins

Chef

Introduction
Server, client and workstation concepts
Building Modules and Classes
Writing some simple code and apply on clients

