

# DevOps Course content

## Introduction to DevOps

- What is DevOps
- Why DevOps?
- DevOps Tools
- Continuous Integration and Deployment

## Version Control

- Git Essentials
- How to install GIT
- How to use GIT

## Sample Application

- SpringBoot Application
- Setup development environment using Java, Maven & IntelliJ
- Use git for pushing code changes to repository

## Build tools

- Introduction to Jenkins
- How to install and configure Jenkins
- How to integrate Jenkins with Git
- How to integrate Jenkins with Shell scripts
- Jenkins Jobs

## Deployment tools

- What is a Docker
- Dockers vs. Virtualization
- Use case of Docker
- Understanding the Docker components
- Docker Architecture
- Install Docker in EC2
- Docker commands.

## Deployment tools (contd.)

- Creating Custom Image
- Downloading Docker Images
- Uploading Images in Docker Registry
- Docker Compose
- Introduction to Application scaling
- Introduction to Docker Swarm
- Introduction to Kubernetes

- Creating Kubernetes Cluster

### Configuration Management

- Introduction to Configuration management
- Automation Frameworks
- Introduction to Chefs
- Introduction to Ansible
- Introduction to Puppet
- Difference between Chefs, puppet, Ansible

FINAL EXAM!!!!