

ANSH INFOTECH

Development | Training | Consultancy
An ISO Certified company 9001:2015

Course Name – **DevOps**

Category – **Professional**

Duration - **4 Months**

COURSE CONTENT

OVERVIEW

Introduction to DevOps

- DevOps Market Trends
- DevOps Engineer Skills
- DevOps Delivery Pipeline
- DevOps Ecosystem

VERSION CONTROL WITH GIT

Introduction to GIT

- Setting up Git
- Common commands in Git
- Working with Remote Repositories

GIT Installation, Version Control, Working with remote repository

Git, Jenkins & Maven Integration

- Branching and Merging in Git
- Git workflows
- Git cheat sheet
- What is CI
- Why CI is Required

INTRODUCTION TO JENKINS (WITH ARCHITECTURE) AND MAVEN

- Branching and merging, Stashing, rebasing, reverting and resetting Build and automation of Test using Jenkins and Maven
- Continuous Integration using Jenkins
 - Jenkins Management
 - Building Delivery Pipeline
 - Pipeline as a Code

CONTINUOUS TESTING WITH SELENIUM

- Introduction to Selenium
- Selenium – Webdriver
- Creating Test Cases in Selenium WebDriver (Waits)
- What and why X-Path

Email – info@anshinfotech.org

Website – www.anshinfotech.org

+91-84278-99400

+91-94171-68347

ANSH INFOTECH

Development | Training | Consultancy

An ISO Certified company 9001:2015

- Handling different controls on Webpage Framework in Selenium
- Selenium Integration with Jenkins

CONTINUOUS DEPLOYMENT

CONTAINERIZATION WITH DOCKER

- Introducing Docker
- Understanding images and containers
- Running Hello World in Docker
- Introduction to Container
- Container Life Cycle
- Sharing and Copying
- Base Image
- Docker File
- Working with containers
- Publishing Image on Docker Hub
- Containerization with Docker: Ecosystem and Networking
 - Introduction to Docker Ecosystem
 - Docker Compose
 - Docker Swarm
 - Managing Containers
 - Running Containers
 - Introduction to Docker Networking
 - Network Types
 - Docker Container Networking

CONFIGURATION MANAGEMENT WITH PUPPET

- Introduction to Puppet
- Puppet Installation
- Puppet Configuration
- Puppet Master and Agent Setup
- Puppet Module
- Node Classification
- Puppet Environment
- Puppet Classes
- Automation & Reporting

CONFIGURATION MANAGEMENT WITH ANSIBLE

- Introduction to Ansible
- Ansible Installation
- Configuring Ansible Roles
- Write Playbooks
- Executing adhoc command

ANSH INFOTECH

Development | Training | Consultancy

An ISO Certified company 9001:2015

CONTAINERIZATION USING KUBERNETES

- Revisiting Kubernetes Cluster Architecture
- Spinning up a Kubernetes Cluster on Ubuntu VMs
- Exploring your Cluster
- Understanding YAML
- Creating a Deployment in Kubernetes using YAML
- Creating a Service in Kubernetes
- Installing Kubernetes Dashboard
- Deploying an App using Dashboard
- Using Rolling Updates in Kubernetes
- Containers and Container Orchestration
- Introduction to Kubernetes

CONTINUOUS MONITORING WITH NAGIOS

- Introduction to Continuous Monitoring
- Introduction to Nagios
- Installing Nagios
- Nagios Plugins(NRPE) and Objects
- Nagios Commands and Notification

