

## DevOps Architect Training - Table of Content

### **Day 1**

- DevOps Introduction
  - What is DevOps
  - What problems Devops solve?
  - What is DevOps toolchain
- SCM with Git (Github)
  - Introduction to SCM
  - Git 101
    - Repository Basics
    - Local vs Remote Repo
    - End-to-End working with Git
      - Cloning
      - Branching
      - Commit/Push/Pull
      - Merge
      - Conflict Resolution
      - Pull Requests

### **Day 2**

- Jenkins
  - Jenkins Overview
  - Popular Plugins
  - CI with Jenkins
  - Integrations
    - Jenkins Github
  - CD with Jenkins
  - Deployment With Jenkins
  - Pipelines

### **Day 3**

- Containerization with Docker
  - Docker Overview
  - Container & Images
  - Dockerfile
  - Docker Hub
  - Container Orchestration (Swarm)

### **Day 4**

- Kubernetes
  - Kubernetes Setup
  - Running App on Kubernetes
  - Node Architecture
  - Deployments

- Service Discovery
- Administration

## **Day 5**

- Ansible
  - Configuration management overview
  - Ansible
    - Architecture
    - Installation and configurations
    - Modules
    - Playbooks
    - Vaults
  - Orchestration with Ansible