

Introduction to GITLAB and GitOps

Duration: 1 Days (8 hours/Day)

Hands-On Format: This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

Module 1 – Introduction to CICD and GitLab

What is CI/CD?

What is GitLab

GitLab Features

Module 2 – Creating Projects

Creating a New Project

Building the Project Locally

Short Introduction to Images and Docker

Building the Project using GitLab CI

Using Environment Variables for Managing Secrets

Deploying the Project using GitLab CI

Module 3 – Variables in GitLab

What are GitLab CI/CD Variables?

Create Custom Variables

Module 4 – GitOps ArgoCD

Introduction to GitOps

Integration of GitLab and ArgoCD Architecture

Installing ArgoCD

Configuring ArgoCD to Connect with GitLab

Auto build image with the help of GitLab and Deploy application to Kubernetes with ArgoCD