

DevOps and Workflow Management with Argo (LFS256)

Learn Argo for seamless Kubernetes workflows: deploy apps, manage rollouts, implement RBAC, troubleshoot, leverage event-driven architecture, and optimize with the Argo CLI.

Duration: 2 Day

Prerequisites for this course

In order to complete this course, learners should be able to:

- Kubernetes basics: Familiarity with Kubernetes concepts such as Pods, Services, Deployments, and Namespaces is crucial. Understanding how to create and manage these resources will be beneficial. We recommend the free course [Introduction to Kubernetes \(LFS158\)](#)
- YAML manifests: Since Argo uses YAML for configuration and defining workflows, a good understanding of YAML syntax and how to write Kubernetes manifests in YAML is required.
- Imperative vs Declarative configuration: Knowledge of these two approaches to configuration management in Kubernetes is important. Argo uses a declarative approach, so understanding the difference between the two will be helpful.
- GitOps practices: As Argo is a tool that enables GitOps practices in Kubernetes, having an understanding of GitOps principles and practices would be beneficial.
- Command Line Interface (CLI) usage: Basic skills in using the command line interface are necessary as the course includes hands-on labs that require interaction with Argo's CLI.
- Basic programming skills: While not strictly necessary, having basic programming skills can help in understanding some of the more advanced concepts in the course, such as parameterization and conditionals in Argo Workflows.

Outline for this course

Chapter 1 – Course Introduction

Chapter 2 – Introduction to Argo

Chapter 3 – Argo CD

Chapter 4 – Argo Workflows

Chapter 5 – Argo Rollouts

Chapter 6 – Argo Events