

Docker and Kubernetes Basics

Objective:

This course helps to understanding basics architecture, installation on Docker and Kubernetes. It gains knowledge on basic objects, networking and storage in Kubernetes and also provide exposure in Docker and Kubectl tool commands.

Course Duration: 2 Days / 16 Hours

Theory of Contents:

1. Introduction on Docker

Explore the basic requirements on containerization

Learn about the overview on Docker Container Runtime Engine

Understandings the architecture and workflow on containerization using Docker

Learn about container image registry

2. Docker CLI Commands

Understanding the CLI commands

Exploring the commands through containerization

3. Introduction on Kubernetes

Learn about the overview on Kubernetes Orchestration Tool

Understanding the architecture and workflow on Kubernetes

Explore the components on Kubernetes

4. Kubernetes Installation

Discuss about the Kubectl CLI Tool

Understanding the kubeadm tool for Kubernetes Installation Kubernetes Installation and Management

5. Basic Kubernetes objects

Explore and creation of Kubernetes objects

Implementing orchestration through Kubernetes

6. Networking and Storage

Exploring Networking with containerization and Kubernetes

Providing stateful containers through Persistent Storage

7. Monitoring

Monitoring using Docker and Kubectl commands

Exploring Octant for monitoring

Collecting Logs and forwarding using Fluentd