

Containers Fundamentals

Duration: 3 Days (8Hours per day)

Module 1 - Virtualization vs Containers

What is Virtualization What is Container Virtualization vs Container Architecture

Module 2 - Docker Installation and Architecture

Configure Repository for Docker Installing Docker Understanding Docker Architecture

Module 3 - Managing Containers

Creating/Deleting Container Container Operations like start, stop and exec Port Mapping

Module 4 - Image Operations

Creating a Docker Image using Docker Commit Building a Dockerfile Tagging an Image Pull and Push Image Creating Private Registry

Module 5 – Storage

Storage Overview Creating and Managing Volumes Using Bind Mounts

Module 6 – Networking

Overview of Container Networking
Introduction to Bridge Network Driver
Managing Network Bridges
Introduction to Host Network Driver
Create Container with Host Network Driver
Introduction to None Network Driver
Create Container with None Network Driver

Module 7 - Container Security

Understanding Linux Capabilities Managing Containers Linux Capabilities

Module 8 - Kubernetes Basics

What is Kubernetes Need of Kubernetes Kubernetes Architecture Managing Basic Resources like Pod, Replica Set and Cluster IP Service