



Docker and Kubernetes

Who we are

Techeduxon has been a platform for global online technology education since 2015. We are now taking it up a notch higher by introducing ways of advanced learning to up-skill and cross-skill your profession with cutting-edge, customized programs. With our Top Tier IT & Enterprise training Courses, We enable you to the forefront & become 'Industry Ready' in this Advancing & Unforeseen Digital World with your upskill Innovations.

Course Outline

What is Containerization?

Docker

Introduction to Docker Engine

Image management & Registry by using Docker

Storage Management in Docker

Docker Networking

Docker Security

Docker EE and Monitoring

Kubernetes Core Concepts

Course Content

What is Containerization?

- Introduction
- Containers History
- What are Namespaces?
- About C Groups
- What is Containers?
- Types of Containers
- About Virtual Machines

Docker

- Introduction
- What is Docker?
- Architecture of Docker
- Life Cycle of Container
- Comparison b/w Docker CE & Docker EE

Introduction to Docker Engin

- Introduction
- What is Docker Engine?
- Why using Docker Engine?
- Terminology of Docker
- Docker CLI & Exce
- Port binding

Image management & Registry by using Docker

- Introduction
- Docker Image
- File management using Docker
- Docker File Instructions
- Build Context using Docker
- Docker Registry

Storage Management in Docker

- Introduction
- Storage Management
- Persistent Storage Types
- Volumes in Docker
- Bind & TMPFs Mount
- Storage Drivers
- Docker Clean Up
- Device Mapper
- Orchestration in Docker
- Docker Compose, Swarm & Service
- Service Placement
- Rolling & Rollback Update

- Docker Stack

Docker Networking

- Docker Networking
- Network Drivers
- Overlay & Bridge Network

Docker Security

- Security in Docker
- Content Trust in Docker
- Securing the Docker Daemon

Docker EE and Monitoring

- Introduction
- Docker Enterprise
- UCP (Universal Control Plane)
- Architecture of UCP
- Controls in UCP
- DTR (Docker Trusted Registry)
- Monitoring

Kubernetes Core Concepts

- Overview of Kubernetes
- Cluster Architecture
- Cluster Administration
- Kubernetes Containers
- Kubernetes Workloads
- Service, Load Balancing and Networking
- Storage
- Configuration
- Security
- Policies

- Extending Kubernetes

Projects & Assignments

Our Expert trainers will provide the real time Projects & Assignments.

