

Docker Orchestration with Kubernetes

Learn how to deploy and manage containerized applications using Kubernetes

Category: Deployment · Duration: 3 days

WHO IT IS FOR

- DevOps engineers, SREs and ops teams
- Teams that want hands-on practice on real scenarios

This training program is designed to provide participants with the knowledge and skills necessary to effectively deploy and manage containerized applications using Kubernetes. The course explores the fundamentals of Docker and then delves into advanced topics such as Kubernetes architecture, workload scheduling, and monitoring. Participants will gain hands-on experience through practical exercises and real-world scenarios.

Prerequisites

Basic understanding of Docker and containerization

Syllabus

- Introduction to Docker
- Getting started with Kubernetes
- Kubernetes architecture
- Deploying applications with Kubernetes
- Managing workloads and services
- Scaling and load balancing
- Networking in Kubernetes
- Storage management
- Monitoring and logging
- Security best practices
- Deploying updates and rollbacks
- Troubleshooting and debugging
- High availability and fault tolerance

- Containerizing legacy applications
- Using Helm for application packaging
- CI/CD with Kubernetes
- Kubernetes ecosystem and tooling
- Managing Kubernetes clusters
- Cluster federation and multi-cloud deployments
- Best practices for production environments