

Kubernetes

 Duration: 0.5 Days

 Available Languages: English German

Audience

Software Developers, Architects and Deployment Engineers.

Precondition

Knowledge of Docker, networking concepts, Linux terminal usage.

Goals

To learn Kubernetes to deploy and manage containerized applications.

Contents

- Kubernetes Introduction
 - # Docker Essentials
 - # Virtualization vs Containerization
 - # Why Kubernetes?
 - # Kubernetes Use Cases
- Kubernetes Architecture Overview
 - # Introduction to Kubernetes Architecture
 - # Kubernetes Master and its Components
- Containers Introduction
 - # Overview of Containers
 - # Create Containerized Services
 - # Manage Containers
- Kubernetes Setup
 - # Installing and Configuring Kubernetes locally
 - # Installing Kubernetes Cluster, Grouping and Organizing Clusters
 - # Creating Kubernetes Cluster via Cloud Platform (AWS, Google Cloud)
- Deploying Applications on Kubernetes Cluster
 - # Creating Kubernetes pods, volumes and deployments
- Kubernetes Security
- Upgrading a Kubernetes Cluster
- Monitoring Kubernetes
- Scaling Kubernetes Cluster
- Infrastructure for Kubernetes
 - # Provisioning, partitioning, networking
- Building a High-Availability Cluster
 - # Load balancing and service discovery
- Deploying a Scalable Application
 - # Horizontal pod auto scaling

Database clustering in Kubernetes

Booking

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