


## 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

Contact Siddhesh Nikude, +91-95-52572354, [training@nelkinda.com](mailto:training@nelkinda.com)