

Trainings

Kubernetes Administration Training



Admin

This course covers the core concepts typically used to create and manage a Kubernetes cluster in a productive environment.

Duration: 4 days

Target group: IT Engineers with Linux knowledge

This course covers the core concepts typically used to create and manage a Kubernetes cluster in a productive environment. In this course, we will create a cluster, define the network configuration, expand the cluster, add applications and configure the storage, security and other objects required for typical operations.

This course does not focus on tools from a specific provider. Instead, we will use kubeadm to set up clusters and use tools which will work with any Kubernetes cluster. This course will equip you with the skills you need to manage Kubernetes in a productive environment. This also makes it outstanding preparation for the Certified Kubernetes Administrator (CKA) exam.

Agenda:

In this course, you will learn how to install and configure a productive Kubernetes cluster – from configuring the network to performing upgrades right through to deployment. It also covers the administrative tasks required for Kubernetes administration:

- Installation and expansion of a Kubernetes cluster containing multiple nodes using kubeadm
- Selecting and implementing a cluster network
- Various methods of application lifecycle management, including scaling, updates and rollbacks
- Configuration of security settings for both clusters and containers

- Managing available storage for containers
- Monitoring, logging and error resolution for containers and clusters
- Configuring scheduling and affinity for container deployments
- Using Helm and Charts to automate deployment
- Error tolerance and higher availability

Note:

- The course fee includes Training materials.