



Kubernetes Administration (LFS458)

Training period: 4days (28hours)

Training location: Customer desired place (On-site)

Covers essential knowledge of configuring and operating Kubernetes, an opensource container orchestration platform.

This course covers core concepts commonly used to create and manage Kubernetes clusters in production environments using independant tools from the Linux Foundation. Build the cluster, determine network configuration, scale the cluster, deploy applications, and configure storage, security, and other objects required for general use.

It provides a variety of opensource based technical training required to manage Kubernetes in a production environment.

Also, this course is an appropriate preparation for the **Certified Kubernetes Administrator (CKA)** exam.



Educational goals

Learn how to install, configure, and manage Kubernetes in operating system



Trainees

Operators and developers who want to learn basic concepts of Kubernetes and cluster configuration and management skills



Prerequisite knowledge

Understanding of Linux OS / environment, basic commands, and text editors



Educational environment

Cloud Platform provided for each individual during the training period, personal notebook preparation required



Textbooks

Linux Foundation certified textbooks



Training schedule

09:30 ~ 17:30
(4 days/28 hours)



OSC Training Differentiation



Instructor with practical experience

An instructor with practical experience certified by the Linux Foundation explains the core concepts of K8s.



On-site lectures

Instructor visits the customer's desired location (customers' site) and conducts training.



Qualification Acquisition Linked Course

You can prepare for the CNCF's accredited qualification exam*, which has recently become increasingly popular.

*CKA (Certified Kubernetes Administrator)

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Curriculum Guide

(7 hours / day, 4 days)

| Day | Time | Course |
|-----------------------------|---------------|---|
| 1 | 09:30 ~ 12:30 | Introduction |
| | | Basics of Kubernetes |
| | 12:30 ~ 13:30 | Lunch |
| | 13:30 ~ 17:30 | Kubernetes Installation and Configuration |
| 2 | 09:30 ~ 12:30 | Kubernetes Architecture |
| | | APIs and Access |
| | 12:30 ~ 13:30 | Lunch |
| | 13:30 ~ 17:30 | API Objects |
| | | Managing State with Deployments |
| 3 | 09:30 ~ 12:30 | Volumes and data |
| | | Services |
| | | Helm |
| | 12:30 ~ 13:30 | Lunch |
| | 13:30 ~ 17:30 | Ingress |
| | | Scheduling |
| Logging and Troubleshooting | | |
| 4 | 09:30 ~ 12:30 | Custom Resource Definition |
| | | Security |
| | 12:30 ~ 13:30 | Lunch |
| | 13:30 ~ 17:30 | High Availability |
| | | Closing and Evaluation Survey |
| Domain Review | | |



AUTHORIZED TRAINING
PARTNER

Training inquiry

The training schedule and application can be found on the Linux Foundation Authorized Training Partner OSC Korea website.

<https://www.osckorea.com/en/training/kubernetes-administration>



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