

Kubernetes Administration (LFS458)

Introduction

- Linux Foundation
- Linux Foundation Training
- Linux Foundation Certifications
- Linux Foundation Digital Badges
- Laboratory Exercises, Solutions and Resources
- E-Learning Course: LFS258
- Platform Details

Basics of Kubernetes

- Define Kubernetes
- Cluster Structure
- Adoption
- Project Governance and CNCF
- Labs

Installation and Configuration

- Getting Started With Kubernetes
- Minikube
- kubeadm
- More Installation Tools

- **Labs**

Kubernetes Architecture

- Kubernetes Architecture
- Networking
- Other Cluster Systems
- Labs

APIs and Access

- API Access
- Annotations
- Working with A Simple Pod
- kubectl and API
- Swagger and OpenAPI
- Labs

API Objects

- API Objects
- The v1 Group
- API Resources
- RBAC APIs
- Labs

Managing State With Deployments

- Deployment Overview
- Managing Deployment States
- Deployments and Replica Sets
- DaemonSets
- Labels
- Labs

Volumes and Data

- Volumes Overview
- Volumes
- Persistent Volumes
- Rook
- Passing Data To Pods
- ConfigMaps
- Labs

Services

- Overview
- Accessing Services
- DNS
- Labs

Helm

- Overview
- Helm
- Using Helm
- Labs