

Red Hat OpenShift Virtualization Administration II: Configuring Production Virtual Machines (DO256)

ID DO256 **Price** 2,805.— €(excl. tax) **Duration** 3 days

Who should attend

- Virtual Machine Administrators who are looking to migrate workloads from traditional hypervisors to OpenShift Virtualization.
- Platform Engineers, Cloud Administrators, and System Administrators who are interested in supporting virtualized workloads, either independently from or in the same OpenShift cluster as containerized workloads.

Prerequisites

[Red Hat OpenShift Virtualization Administration I: Operating Virtual Machines \(DO156\)](#)

Although Linux skills are not required for managing OpenShift clusters and OpenShift Virtualization, operating individual Linux VMs requires Linux system administration skills that the following courses provide:

- Red Hat System Administration I (RH124) and Red Hat System Administration II (RH134) for managing the OS inside a Linux VM.

Course Objectives

Impact on the Organization

OpenShift Virtualization enables organizations to realize operational savings by managing virtualized workloads and containerized workloads together by using the same orchestration and clustering infrastructure from Red Hat OpenShift.

Impact on the Individual

IT professionals will learn to deploy and manage production-ready virtualized workloads on OpenShift.

Course Content

Create production-ready virtual machines and their supporting Kubernetes and OpenShift resources in Red Hat OpenShift Virtualization.

Red Hat OpenShift Virtualization Administration II: Configuring Virtual Machines addresses critical challenges in managing virtual machines in Red Hat OpenShift Virtualization. This course teaches IT Operations teams the skills to enable advanced networking features for virtual machines and cluster nodes, to migrate virtual machines from other hypervisors to OpenShift Virtualization, to provide data protection and backups of virtual machines, to create efficient and standardized provisioning of virtual machines, and to provide high availability to virtual machines with Kubernetes resources.

Course Content Summary

- Understand OpenShift OAuth server concepts and custom resources, including their function in Kubernetes authentication, and define and implement role-based access controls and user permissions.
- Enable comprehensive and flexible networking for nodes and virtual machines within an OpenShift environment.
- Migrate virtual machines from another hypervisor to Red Hat OpenShift Virtualization by using the migration toolkit for virtualization (MTV) operator.
- Back up and restore virtual machines by using the OpenShift APIs for Data Protection (OADP) operator.
- Create and manage custom instance types, templates, and boot sources to provision virtual machines.
- Control the placement of virtual machines on cluster nodes by using Kubernetes resources, and rebalance virtual machine workloads across cluster nodes by enabling descheduler evictions.
- Implement high-availability virtual machines that are resilient to failures, planned maintenance, and cluster upgrades by configuring Kubernetes resources.

Detailed Course Outline

Authentication and Authorization for Virtual Machines to Red

Hat OpenShift Virtualization

Understand OpenShift OAuth server concepts and custom resources, including their function in Kubernetes authentication, and define and implement role-based access controls and user permissions.

Advanced Networking for Virtual Machines in Red Hat OpenShift Virtualization

Enable comprehensive and flexible networking for nodes and virtual machines within an OpenShift environment.

Migrating Virtual Machines to Red Hat OpenShift Virtualization

Migrate virtual machines from another hypervisor to Red Hat OpenShift Virtualization by using the migration toolkit for virtualization (MTV) operator.

Creating and Restoring Backups of Virtual Machines in Red Hat OpenShift Virtualization

Back up and restore virtual machines by using the OpenShift APIs for Data Protection (OADP) operator.

Creating Custom Instance Types, Templates, and Boot Sources in Red Hat OpenShift Virtualization

Create and manage custom instance types, templates, and boot sources to provision virtual machines.

Controlling Scheduling of Virtual Machines in Red Hat OpenShift Virtualization

Control the placement of virtual machines on cluster nodes by using Kubernetes resources, and rebalance virtual machine workloads across cluster nodes by enabling descheduler evictions.

Configuring High Availability for Virtual Machines in Red Hat OpenShift Virtualization

Implement high-availability virtual machines that are resilient to failures, planned maintenance, and cluster upgrades by configuring Kubernetes resources.

About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

Fast Lane Services

- ✓ High End Technology Training
- ✓ Business & Soft Skill Training
- ✓ Consulting Services
- ✓ Managed Training Services
- ✓ Digital Learning Solutions
- ✓ Content Development
- ✓ Remote Labs
- ✓ Talent Programs
- ✓ Event Management Services

Training Methods

- ✓ Classroom Training
- ✓ Instructor-Led Online Training
- ✓ FLEX Classroom – Classroom & Online Hybrid
- ✓ Onsite & Customized Training
- ✓ E-Learning
- ✓ Blended & Hybrid Learning
- ✓ Mobile Learning

Technologies & Solutions

- ✓ Digital Transformation
- ✓ Artificial Intelligence
- ✓ Cloud
- ✓ Networking
- ✓ Cyber Security
- ✓ Wireless & Mobility
- ✓ Modern Workplace
- ✓ Data Center



Worldwide Presence
with high-end training centers
around the globe



Multiple Awards
from vendors such as AWS,
Microsoft, Cisco, Google, NetApp,
VMware



Experienced SMEs
with over 19.000 combined
certifications

Germany

**Fast Lane Institute for Knowledge
Transfer GmbH**
Tel. +49 40 25334610
info@flane.de / www.flane.de

Austria

ITLS GmbH
(Partner of Fast Lane)
Tel. +43 1 6000 8800
info@itls.at / www.itls.at

Switzerland

**Fast Lane Institute for Knowledge
Transfer (Switzerland) AG**
Tel. +41 44 8325080
info@flane.ch / www.flane.ch