

Red Hat OpenShift Administration I: Operating a Production Cluster

Duration: 4 Days **Course Code:** DO180 **Delivery Method:** Virtuel deltagelse

Overview:

Deploy, manage, and troubleshoot containerized applications running as Kubernetes workloads in OpenShift clusters.

Red Hat OpenShift Administration I: Operating a Production Cluster (DO180) prepares OpenShift cluster administrators to manage Kubernetes workloads and to collaborate with developers, DevOps engineers, system administrators, and SREs to ensure the availability of application workloads.

This course focuses on managing typical end-user applications that are often accessible from a web or mobile UI and that represent most cloud-native and containerized workloads. Managing applications also includes deploying and updating their dependencies, such as databases, messaging, and authentication systems.

This course is intended to develop the skills to manage Red Hat OpenShift clusters, and to support containerized applications that are highly available, resilient, and scalable.

Red Hat OpenShift is an enterprise-hardened application platform based on Kubernetes that provides a common set of APIs and abstractions that enable application portability across cloud providers and traditional data centers. Red Hat OpenShift adds consistency and portability of operational processes across these environments, and can also be deployed as a managed service.

An external SRE team shares the responsibility of managing Red Hat OpenShift clusters with a customer's IT operations team when using a managed OpenShift offering such as Red Hat OpenShift on AWS (ROSA) or Azure Red Hat OpenShift (ARO).

The skills that you learn in this course apply to all versions of OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift (ARO), and OpenShift Container Platform.

This course is based on Red Hat OpenShift 4.18.

Note: Starting January 1, 2026, Red Hat introduces RHLS-Course — a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.

When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.

Your RHLS subscription includes:

- One live, instructor-led virtual session
- 12 months of self-paced learning access
- One certification exam with a free retake

Onsite Classroom-based sessions and closed course options remain unchanged.

Updated Jan2026

Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

Target Audience:

Primary: Platform Engineers, System Administrators, Cloud Administrators, and other infrastructure-related IT roles who are responsible for tier-1 support of infrastructure for applications.who are interested in managing OpenShift clusters and containerized applications. Secondary: Enterprise Architects, Site Reliability Engineers, DevOps Engineers, and other application-related IT roles who are responsible for designing infrastructure for applications. Developers and Site Reliability Engineers that are new to container technology should enroll in Red Hat OpenShift Development I: Introduction to Containers with Podman (DO188)

Objectives:

- After this course participants should be able to:
- Manage OpenShift clusters from the command-line interface and from the web console
- Deploy applications on OpenShift from container images, templates, and Kubernetes manifests
- Connect Kubernetes workloads to storage for application data
- Configure Kubernetes workloads for high availability and reliability
- Manage updates to container images, settings, and Kubernetes manifests of an application
- Participants will understand the architecture of Red Hat OpenShift

- Troubleshoot network connectivity between applications inside and outside an OpenShift cluster

clusters and of Kubernetes applications, and will be able to deploy, manage, and troubleshoot applications on OpenShift. They will also be able to identify and escalate application and infrastructure issues to development teams, operation teams, and IT vendors.

Prerequisites:

- Containers, Kubernetes and Red Hat OpenShift Technical Overview (DO080) or equivalent knowledge of Linux containers.
 - Getting Started with Linux Fundamentals (RH104) or equivalent proficiency in using a command line interface, ideally operating a Bash shell, is required.
- Take Red Hat free assessment to gauge whether this offering is the best fit for your skills [Red Hat Skills Assessment](#)

Testing and Certification

None

Follow-on-Courses:

- Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280)
- Introduction to Microsoft Azure Red Hat OpenShift (DO121)
- DO288 - Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications
- DO280 - Red Hat OpenShift Administration II: Configuring a Production Cluster

Content:

Introduction to Kubernetes and OpenShift	Run and troubleshoot containerized applications as unmanaged Kubernetes pods.	Configure Applications for Reliability
Identify the main Kubernetes cluster services and OpenShift platform services, and monitor them from the web console.	Deploy Managed and Networked Applications on Kubernetes	Configure applications to work with Kubernetes for high availability and resilience.
Kubernetes and OpenShift Command-Line Interfaces and APIs	Deploy applications and expose them to network access from inside and outside a Kubernetes cluster.	Manage Application Updates
Access an OpenShift cluster from the command line, and query its Kubernetes API resources to assess the health of a cluster.	Manage Storage for Application Configuration and Data	Manage reproducible application updates and rollbacks of code and configurations.
Run Applications as Containers and Pods	Externalize application configurations in Kubernetes resources, and provision storage volumes for persistent data files.	

Additional Information:

Official course book provided to participants.

Further Information:

For More information, or to book your course, please call us on tlf.nr.: 44 88 18 00

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