

Training: Red Hat
DO285 Containers, Kubernetes, and Red Hat OpenShift Administration I



| FORM OF TRAINING | MATERIALS | PRICE | DURATION |
|------------------|-------------|----------|----------|
| Traditional | Hardcopy | 2250 EUR | 5 days |
| Traditional | CTAB Tablet | 2350 EUR | 5 days |

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING GOALS:

One of the key tenets of DevOps is continuous integration and continuous deployment. Containers have become a key technology for the configuration and deployment of applications and microservices. Kubernetes is a container orchestration platform that provides foundational services in Red Hat® OpenShift Container Platform. **DO285** combines the content from [Introduction to Containers, Kubernetes, and Red Hat® OpenShift \(DO180\)](#) and [Red Hat OpenShift Administration I \(DO280\)](#).

This course is based on Red Hat OpenShift Container Platform 3.5.

Audience for this course:

- Developers who wish to containerize software applications
- Administrators who are new to container technology and container orchestration
- Architects who are considering using container technologies in software architectures
- System administrators
- System architects
- Architects and developers who want to install and configure OpenShift Container Platform

CONSPECT:

- Getting started with container technology
 - Describe how software can run in containers orchestrated by OpenShift Container Platform.
- Creating containerized services
 - Provision a server using container technology.

- Managing containers
 - Manipulate pre-build container images to create and manage containerized services.
- Managing container images
 - Manage the lifecycle of a container image from creation to deletion.
- Creating custom container images
 - Design and code a Dockerfile to build a custom container image.
- Deploying containerized applications on OpenShift
 - Deploy single container applications on OpenShift Container Platform.
- Deploying multi-container applications
 - Deploy applications that are containerized using multiple container images.
- Troubleshooting containerized applications
 - Troubleshoot a containerized application deployed on OpenShift.
- Comprehensive review of Introduction to Container, Kubernetes, and Red Hat OpenShift
 - Demonstrate how to containerize a software application, test it with Docker, and deploy it on an OpenShift cluster.
- Introducing Red Hat OpenShift Container Platform
 - List the features and describe the architecture of the OpenShift Container Platform.
- Installing OpenShift Container Platform
 - Install OpenShift and configure the cluster.
- Describing and exploring OpenShift networking concepts
 - Describe and explore OpenShift networking concepts.
- Executing commands
 - Execute commands using the command-line interface.
- Controlling access to OpenShift resources
 - Control access to OpenShift resources.
- Allocating persistent storage
 - Implement persistent storage.
- Managing application deployments
 - Manipulate resources to manage deployed applications.
- Installing and configuring the metrics subsystem
 - Install and configure the metrics gathering system.
- Managing and monitoring OpenShift Container Platform
 - Manage and monitor OpenShift resources and software.
- Comprehensive review of Red Hat OpenShift Administration I
 - Install, configure, and deploy an application on a cluster.

REQUIREMENTS:

Red Hat recommends these prerequisites:

- Ability to use a Linux® terminal session and issue operating system commands
- RHCSA® certification or equivalent knowledge
- Experience with web application architectures and their corresponding technologies

Difficulty level



CERTIFICATE:

Participants will obtain certificates signed by Red Hat.

TRAINER:

Red Hat Certified Instructor