

Training: Red Hat
DO180 Introduction to Containers, Kubernetes, and Red Hat OpenShift



FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Hardcopy	2000 EUR	3 days
Traditional	CTAB Tablet	2100 EUR	3 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:

Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180) introduces building and managing Docker containers for deployment on a Kubernetes cluster. This course helps students build core knowledge and skills in managing containers through hands-on experience with Docker, Kubernetes, and Red Hat® OpenShift Container Platform. The video classroom version is only available on **Red Hat OpenShift Container Platform 3.5** and **Red Hat Enterprise Linux 7**.

As a result of attending this class, students should be able to containerize simple software applications and services; deploy them with Docker, Kubernetes, and Red Hat OpenShift; test the containerized version; and troubleshoot issues with deployment.

One of the key tenets of the DevOps movement 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.

This course is based on Red Hat® **OpenShift Container Platform 3.9** and **Red Hat® Enterprise Linux® 7.5**.

CONSPECT:

- Course introduction
 - Introduce and review the course.
- Get started with container technology
 - Describe how software can run in containers orchestrated by Red Hat OpenShift Container Platform.
- Create containerized services
 - Provision a server using container technology.

- Manage containers
 - Manipulate pre-built container images to create and manage containerized services.
- Manage container images
 - Govern the life cycle of a container image from creation to deletion.
- Create custom container images
 - Design and code a Docker file to build a custom container image.
- Deploy containerized applications on Red Hat OpenShift
 - Deploy single container applications on Red Hat OpenShift Container Platform.
- Deploy multi-container applications
 - Deploy applications that are containerized using multiple container images.
- Troubleshoot containerized applications
 - Troubleshoot a containerized application deployed on Red Hat 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 a Red Hat OpenShift cluster.

REQUIREMENTS:

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

Prerequisites for this course

- Be able to use a Linux terminal session and issue operating system commands
- Be a [Red Hat Certified System Administrator \(RHCSA\)](#) , or demonstrate equivalent experience
- Have experience with web application architectures and their corresponding technologies
- You learn about the benefits of containers, Docker, Kubernetes, and Red Hat OpenShift with our free offering, [Deploying Containerized Applications Technical Overview \(DO080\)](#).

Difficulty level



CERTIFICATE:

Participants will obtain certificates signed by Red Hat.

TRAINER:

Red Hat Certified Instructor.

ADDITIONAL INFORMATION:

Recommended next exam or course:

[**DO280 Red Hat OpenShift Administration I**](#)

[**DO281 Red Hat OpenShift Administration I with EX280 exam**](#)

[**DO290 OpenShift Enterprise Development**](#)