

Introduction to Containers, Kubernetes, and OpenShift (DO180)

- **Formato do curso:** Presencial
- **Localidade:** Lisboa
- **Data:** 18 Mai. 2020 a 20 Mai. 2020
- **Preço:** 1620€
- **Horário:** Laboral - das 09h00 às 17h00
- **Duração:** 20 horas

Introduction to Containers, Kubernetes, and Red Hat OpenShift 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.

This course is intended to develop the skills needed to create microservices architectures using OpenShift. Microservices is a new alternative to design modern applications, focused on working with less hardware resources, and therefore reducing infrastructure costs. OpenShift is a cloud solution that leverages the usage of microservices running on containers.

This course is based on Red Hat OpenShift Container Platform 3.5 and Red Hat Enterprise Linux® 7.

Diagnóstico de Competências

Teste previamente os seus conhecimentos, ou os da sua equipa, em:

- Red Hat Satellite
- Ansible
- RH JBoss Enterprise Application Platform
- RH Gluster Storage
- RH OpenShift
- RH OpenStack Platform
- RH Enterprise Linux 7
- RH Fuse
- RH Camel
- RH AMQ
- RH Ceph Storage
- RH Identify Management
- RH Enterprise Linux 8

[Aceda aqui ao diagnóstico!](#)

Destinatários

- 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
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Pré-requisitos

Red Hat recommends these prerequisites:

- Be able to use a Linux terminal session and issue operating system commands
 - Have [Red Hat Certified System Administrator \(RHCSA\)](#) certification or equivalent experience
 - Have experience with web application architectures and their corresponding technologies
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Objetivos

As a result of attending this course, students should be able to perform basic administration tasks in Red Hat OpenShift Container Platform. They should be able to demonstrate the following skills:

- Create containerized services using Docker
 - Manage containers and container images
 - Create custom container images
 - Deploy containerized applications on OpenShift Container Platform
 - Deploy multi-container applications
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Programa

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-build container images to create and manage containerized services.

Manage container images

Manage 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.