



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

Red Hat

- **Nível:**
  - **Duração:** 20h
- 

## Sobre o curso

### **Learn to build and manage containers for deployment on a Kubernetes and Red Hat OpenShift cluster**

Introduction to Containers, Kubernetes, and Red Hat OpenShift Classroom Training (DO180) helps you build core knowledge in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat® OpenShift® Container Platform. These skills are needed for multiple roles, including developers, administrators, and site reliability engineers.

### **Course content summary**

- Understand container and OpenShift architecture.
  - Create containerized services.
  - Manage containers and container images.
  - Create custom container images.
  - Deploy containerized applications on Red Hat OpenShift.
  - Deploy multi-container applications.
- 

## 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
  - Site reliability engineers who are considering using Kubernetes and Red Hat OpenShift
- 

## Pré-requisitos

- Be able to use a Linux terminal session, issue operating system commands, and be familiar with shell scripting
  - Have experience with web application architectures and their corresponding technologies
  - Being a Red Hat Certified System Administrator (RHCSA®) is recommended, but not required
- 

## Programa

- Introduce container technology
- Create containerized services
- Manage containers
- Manage container images
- Create custom container images
- Deploy containerized applications on Red Hat OpenShift
- Deploy multi-container applications
- Troubleshoot containerized applications
- Comprehensive review of curriculum

**Note:** Course outline is subject to change with technology advances and as the nature of the underlying job evolves.

### **Introduce 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**

- Use single container applications on Red Hat OpenShift Container Platform.

### **Deploy multi-container applications**

- Set up applications that are containerized using multiple container images.

### **Troubleshoot containerized applications**

- Regulate a containerized application deployed on Red Hat OpenShift.

### **Comprehensive review of curriculum**

- Demonstrate how to containerize a software application, test it with Podman, and deploy it on a Red Hat OpenShift cluster.

**Note:** Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, [contact one of our Red Hatters](#).