

DO280VC

Red Hat OpenShift Administration II: Operating a Production Kubernetes

1 horas

Administração OpenShift

Red Hat

INTRODUÇÃO

Configure, manage, and troubleshoot OpenShift clusters and containerized applications. Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280) teaches you how to configure, troubleshoot, and manage Red Hat® OpenShift® Container Platform. This hands-on, lab-based course shows you how to verify the successful installation of a cluster, manage it on a day-to-day basis, and troubleshoot the deployment of containerized applications. This course is based on Red Hat® Enterprise Linux® 8.2 and OpenShift Container Platform 4.6.

OBJETIVO DO CURSO

Course summary

- Describe the Red Hat OpenShift Container Platform cluster installation and update processes
- Troubleshoot application deployments
- Configure authentication using local users
- Control access to projects using role-based access control (RBAC)
- Expose applications to clients external to the cluster using TLS encryption
- Configure network isolation between services and applications using network policies
- Configure application scheduling using labels and selectors
- Limit compute resource usage of applications with resource limits and quotas
- Manage a cluster and deployed applications with the Web Console
- Install Kubernetes Operators with the Web Console

PÚBLICO-ALVO

Audience for this course

This course is designed for system administrators, system architects, and developers who want to install and configure Red Hat OpenShift Container Platform.

- System and Software Architects interested in understanding features and functionality of an OpenShift cluster.
- System Administrators interested in the ongoing management of clusters and containerized applications.
- Cluster Operators interested in managing access to cluster resources by users and applications
- Site Reliability Engineers interested in the ongoing maintenance and troubleshooting of a cluster.

Technology considerations

Internet access is required

CONTEÚDO PROGRAMÁTICO

OUTLINE FOR THIS COURSE

Describe the Red Hat OpenShift Container Platform

- Describe the architecture of the Red Hat OpenShift Container Platform (RHOC).

Verify the health of a cluster

- Describe OpenShift installation methods and verify the health of a newly installed cluster.

Configure authentication and authorization

- Configure authentication with the HTPasswd identity provider and assign roles to users and groups.

Configure application security

- Restrict permissions of applications using security context constraints and protect access credentials using secrets.

Configure OpenShift networking for applications

- Troubleshoot OpenShift software-defined networking (SDN) and configure network policies

Control pod scheduling

- Control which nodes a pod runs on.

Describe cluster updates

- Describe how to perform a cluster update.

Manage a cluster with the web console

- Manage a Red Hat OpenShift cluster using the web console.