DO280VC

Red Hat OpenShift Administration II: Operating aProduction Kubernetes

1 horas | Administração OpenShift | Red Hat

INTRODUÇÃO

Configure, manage, andtroubleshoot OpenShift clusters and containerized applicationsRedHat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280) teachesyou how to configure, troubleshoot, and manage Red Hat® OpenShift® Container Platform. Thishands-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 containerizedapplications.This course is based on Red Hat® Enterprise Linux® 8.2 and OpenShift ContainerPlatform 4.6.

OBJETIVO DO CURSO

Course summary

- Describe the Red Hat OpenShift Container Platform clusterinstallation 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 resourcelimits 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 OpenShiftContainer Platform.

- System and Software Architects interested in understandingfeatures and functionality of an OpenShift cluster.
- System Administrators interested in the ongoingmanagement of clusters and containerized applications.
- Cluster Operators interested in managing access to clusterresources by users and applications
- Site Reliability Engineers interested in the ongoingmaintenance and troubleshooting of a cluster.

Technology considerations

Internet access is required

PRÉ-REQUISITOS

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CONTEÚDO PROGRAMÁTICO

OUTLINEFOR THIS COURSE

Describe the Red Hat OpenShift Container Platform

• Describe the architecture of the Red Hat OpenShift Container Platform (RHOCP).

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 usersand 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 networkpolicies

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.