
Containers, Kubernetes and Red Hat OpenShift Administration II

Duración: 5 Días **Código del Curso: DO285** **Método de Impartición: Curso Remoto (Virtual)**

Temario:

Containers, Kubernetes, and Red Hat OpenShift Administration II (DO285) helps you gain core knowledge in building and in configuring and managing Red Hat® OpenShift® Container Platform. This immersive and intensive, hands-on course shows you how to deploy applications to a local container engines and OpenShift clusters, manage the cluster on a day-to-day basis, and troubleshoot the deployment of containerized applications.

This course is based on Red Hat OpenShift Container Platform 4.6 and combines the content from Red Hat OpenShift I: Containers & Kubernetes (DO180) and Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280).

Curso Remoto (Abierto)

Nuestra solución de formación remota o virtual, combina tecnologías de alta calidad y la experiencia de nuestros formadores, contenidos, ejercicios e interacción entre compañeros que estén atendiendo la formación, para garantizar una sesión formativa superior, independiente de la ubicación de los alumnos.

Dirigido a:

System and software architects interested in understanding features and functionality of an OpenShift cluster
System administrators who are interested in the ongoing management of clusters and containerized applications
Cluster operators who are interested in managing access to cluster resources by users and applications
Site reliability engineers interested in the ongoing maintenance and troubleshooting of a cluster

Objetivos:

- Manage containers and container images.
 - Create custom container images.
 - Describe the Red Hat OpenShift Container Platform cluster installation and update processes.
 - Troubleshoot application deployment issues.
 - Control access to projects using groups and role-based access control (RBAC).
 - Configure service and container networking.
 - 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.
 - Install Kubernetes Operators with the web console.
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Prerequisitos:

Become a Red Hat Certified System Administrator (RHCSA), or demonstrate equivalent Red Hat Enterprise Linux system administration experience

Contenido:

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| Introduction to container technology | Deploy multicontainer applications | Control pod scheduling |
| Describe how applications run in containers orchestrated by Red Hat OpenShift Container Platform. | Deploy applications that are containerized using multiple container images. | Control the nodes on which a pod runs. |
| Create containerized services | Explore Red Hat OpenShift Container Platform | Scale an OpenShift cluster |
| Provision a service using container technology. | Describe the architecture of OpenShift Container Platform. | Control the size of an OpenShift cluster. |
| Manage containers | Verify the health of a cluster | Describe cluster updates |
| Modify prebuilt container images to create and manage containerized services. | Describe OpenShift installation methods and verify the health of a newly installed cluster. | Describe how to perform a cluster update. |
| Manage container images | Configure authentication and authorization | Manage a cluster with the web console |
| Manage the life cycle of a container image from creation to deletion. | Configure authentication with the HTTPasswd identity provider and assign roles to users and groups. | Use the web console to manage a Red Hat OpenShift cluster. |
| Create custom container images | Configuring application security | Execute a comprehensive review |
| Design and code a Dockerfile to build a custom container image. | Restrict permissions of applications using security context constraints and protect access credentials using secrets. | Verify, manage, and troubleshoot an OpenShift cluster for enterprise use. |
| Deploy containerized applications on OpenShift | Configure OpenShift networking for applications | Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. |
| Use OpenShift Container Platform to deploy single container applications. | Troubleshoot OpenShift software-defined networking (SDN) and configure network policies. | |

Información Adicional:

Impact on the organization

This course provides novice administrators with the essential skills to configure and manage Red Hat OpenShift Container Platform clusters to support containerized applications that are highly available, resilient, and scalable. Red Hat OpenShift Container Platform is an enterprise, hardened distribution of Kubernetes that enables rapid application development and deployment, as well as portability of applications and operational processes across cloud providers and traditional data centers.

Impact on the individual

After completing this course, you should be able to demonstrate the skills necessary to execute and build local containers, establish the health of a new OpenShift cluster, grant users and developers access to the cluster, and manage the cluster on a day-to-day basis. One major focus of the course is troubleshooting common problems that will be encountered beyond day one as users and applications use cluster resources.

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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