Container Adoption Boot Camp

Duration: 10 Days Course Code: DO700

Overview:

Supporting the infrastructure for adoption of container-native applications, Kubernetes, and DevOps practices.
The Container Adoption Boot Camp for Administrators (DO700) immerses you in intensive, hands-on management of container-native applications deployed on Red Hat's implementation of Kubernetes, Red Hat® OpenShift® Container Platform, at enterprise scale.
Red Hat OpenShift Container Platform enables rapid application development and deployment, as well as portability of an application across environments. The platform also offers simplified application scaling, administration, and maintenance of adapted or cloud-native applications.
This course is for those seeking to make a quantum leap in their digital transformation journey. Making this shift requires the ability to support a growing number of clusters, stakeholders, applications, and users to achieve large-scale deployments.
This Bootcamp is intended to provide container-novice administrators with the foundational and advanced skills needed to configure, manage, and automate the Red Hat OpenShift Container Platform to deploy containerized applications that are highly available, resilient, and scalable.
The skills learned in this course can be applied to both self-managed editions of OpenShift as well as managed services editions like Red Hat OpenShift on AWS (ROSA) and Azure Red Hat OpenShift.
This bootcamp is based on Red Hat OpenShift Container Platform 4.14.
Note: *Starting January 2026 this course only exists in CR (classroom) if scheduled or Closed course modalities - No RHLS-Course for this course.*
This course comes with RHLS-Standard (full RedHat courses catalog in E-learning self-paced) : As part of enrollment, participant will receive one year of Red Hat Learning Subscription Standard, which gives unlimited access to all of Red Hat courses online, and can take up to 5 unique exams and can retake any of those exams.
Updated Jan2026

Target Audience:

System Administrators, Cloud Administrators, and Site Reliability Engineers (SREs) interested in adopting container and Kubernetes technologies

Objectives:

- After this course participants should be able to:
- Understand the basis of Kubernetes and Red Hat OpenShift
- Deploy and troubleshoot containerized applications for OpenShift
- Control access to projects using role-based access control (RBAC)
- Configure authentication and identity management for OpenShift
- Isolate applications though network policies
- Control resource usage through quotas and limits
- Automate OpenShift administration tasks using the OpenShift GitOps operator
- Deploy packaged applications with Helm charts and OpenShift templates
- Provision persistent storage tailored for application requirements
- Backup and restore containerized applications with the OpenShift API for Data Protection (OADP) operator

Prerequisites:

- Be a Red Hat Certified System Administrator (RHCSA), or demonstrate equivalent experience

Take Red Hat free assessment to gauge whether this offering is the best fit for your skills Red Hat Skills Assessment

Testing and Certification

After this bootcamp you should be able to target the following exams:

- Red Hat Certified OpenShift Administrator exam (EX280)
- Red Hat Certified Specialist in OpenShift Automation and Integration exam (EX380)

Follow-on-Courses:

None

Content:

Introduction to Kubernetes and OpenShift

- Identify the main Kubernetes cluster services and OpenShift platform services and monitor them by using the web console

Kubernetes and OpenShift Command-Line Interfaces and APIs

- Access an OpenShift cluster by using the command line and query its Kubernetes API resources to

assess the health of a cluster

Run Applications as Containers and Pods

- Run and troubleshoot containerized applications as unmanaged Kubernetes pods

Deploy Managed and Networked Applications on Kubernetes

- Deploy applications and expose them to network access from inside and outside a Kubernetes cluster

Manage Storage for Application Configuration and Data

- Externalize application configurations in Kubernetes resources and provision storage volumes for persistent data files

Configure Applications for Reliability

- Configure applications to work with Kubernetes for high availability and resilience

Manage Application Updates

- Manage reproducible application updates and rollbacks of code and configurations

Declarative Resource Management

- Deploy and update applications from resource manifests that are parameterized for different target environments

Deploy Packaged Applications

- Deploy and update applications from resource manifests that are packaged for sharing and distribution

Authentication and Authorization

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

Network Security

- Protect network traffic between applications inside and outside the cluster

Expose non-HTTP/SNI Applications

- Expose applications to external access without using an ingress controller

Enable Developer Self-Service

- Configure clusters for safe self-service by developers from multiple teams, and disallow self-service if operations staff must provision projects

Manage Kubernetes Operators

- Install and update operators that the Operator Lifecycle Manager and the Cluster Version Operator manage

Application Security

- Run applications that require elevated or special privileges from the host operating system or Kubernetes

OpenShift Updates

- Update an OpenShift cluster and minimize disruption to deployed applications

Authentication and Identity Management

- Configure OpenShift clusters to authenticate by using LDAP and OIDC enterprise identity systems and to recognize groups that those systems define

Backup, Restore, and Migration of Applications with OADP

- Backup and restore application settings and data with OpenShift API for Data Protection (OADP)

Cluster Partitioning

- Configure a subset of cluster nodes to be dedicated to a type of workload

Pod Scheduling

- Configure workloads to run on a dedicated set of cluster nodes and prevent other workloads from using those cluster nodes

OpenShift GitOps

- Deploy OpenShift GitOps for managing clusters and applications

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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