Container Adoption Boot Camp

Create containerized services
: Provision a service using container technology.

Manage containers
: Manipulate pre-built container images to create and manage containerized services.

Manage container images
: Manage the life cycle of a container image from creation to deletion.

Create custom container images
: Design and code a Dockerfile to build a custom container image.

Deploy containerized applications on OpenShift
: Deploy single container applications on OpenShift Container Platform.

Deploying multi-container applications
: Deploy applications that are containerized using multiple container images.

Publish enterprise container images
: Interact with an enterprise registry and publish container images to it.

Deploying multi-container applications
: Deploy multi-container applications using Helm charts and Kustomize.

Managing application deployments
: Monitor application health and implement various deployment methods for cloud-native applications.

Describing the Red Hat OpenShift Container Platform
: Describe the architecture of OpenShift Container Platform.

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

Configuring authentication and authorization
: Configure authentication with the HTPasswd identity provider and assign roles to users and groups.

Configuring application security
: Restrict permissions of applications using security context constraints and protect access credentials using secrets.

Configuring OpenShift networking for applications
: Troubleshoot OpenShift software-defined networking (SDN) and configure network policies.

Controlling pod scheduling
: Control the nodes on which a pod runs.

Describing cluster updates
: Describe how to perform a cluster update.

Managing a cluster with the web console
: Manage a Red Hat OpenShift cluster using the web console.

Moving from Kubernetes to OpenShift
: Demonstrate that OpenShift is Kubernetes by deploying Kubernetes-native applications on OpenShift.

Introducing automation with OpenShift
: Automate OpenShift using scripts and Ansible playbooks.

Managing OpenShift operators
: Manage operators and OpenShift cluster operators.

Implementing GitOps with Jenkins

Implement a GitOps workflow using containerized Jenkins to administer an OpenShift cluster.

Configuring enterprise authentication

Configure OpenShift integration with enterprise identity providers.

Configuring trusted TLS certificates

Configure trusted TLS certificates for external access to cluster services and applications.

Configuring dedicated node pools

Add nodes to an OpenShift cluster with custom configurations.

Configuring persistent storage

Configure storage providers and storage classes to ensure cluster user access to persistent volume resources.

Managing cluster monitoring and metrics

Configure and manage the OpenShift monitoring stack.

Provisioning and inspecting cluster logging

Deploy and query cluster-wide logging, and diagnose common issues using tools.

Recovering failed worker nodes

Inspect, troubleshoot, and remediate worker nodes in a variety of failure scenarios.