DO720 Container Adoption Boot Camp for Developers

Introduction to container technology
    Describe how software can run in containers orchestrated by OpenShift Container
    Platform.
Create containerized services
    Provision a service using container technology.
Manage containers
    Modify prebuilt 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
    Deploy applications on OpenShift Container Platform.
Deploy multi-container applications
    Deploy applications that are containerized using multiple container images.
Troubleshoot containerized applications
    Troubleshoot a containerized application deployed on OpenShift.
Deploy and manage applications on an OpenShift cluster
    Deploy applications using various application packaging methods to an OpenShift
    cluster and manage their resources.
Design containerized applications for OpenShift
    Select a containerization method for an application and create a container to run on an
    OpenShift cluster.
Publish enterprise container images
    Create an enterprise registry and publish container images to it.
Build applications
    Describe the OpenShift build process, build triggers, and manage builds.
Create applications from OpenShift templates
    Describe the elements of a template and create a multi-container application template.
Manage application deployments
    Monitor application health and implement various deployment methods for cloud-
    native applications.
Implement continuous integration and continuous deployment pipelines in OpenShift
    Create and deploy Jenkins pipelines to facilitate continuous integration and
    deployment with OpenShift.
Describe microservice architectures
    Describe components and patterns of microservice-based application architectures.
Implement a microservice with Quarkus
    Deploy Red Hat OpenShift Service Mesh on OpenShift Container Platform.
Test microservices
    Implement unit and integration tests for microservices.
Deploy microservice-based applications
    Deploy Quarkus microservice applications to an OpenShift cluster.
Build microservice applications with Quarkus
    Build a persistent and configurable distributed quarkus microservices application.
Test microservices
    Implement unit and integration tests for microservices.

Secure microservices
    Secure a microservice using OAuth.
Monitor microservices
    Monitor the operation of a microservice using metrics, distributed tracing, and log
    aggregation.
Introduction to Red Hat OpenShift Service Mesh
    Describe the basic concepts of microservice architecture and OpenShift Service Mesh.
Observe a service mesh
    Trace and visualize an OpenShift Service Mesh with Jaeger and Kiali.
Control service traffic
    Manage and route traffic with OpenShift Service Mesh
Release applications with OpenShift Service Mesh
    Release applications with canary and mirroring release strategies.
Test service resilience with chaos testing
    Test the resiliency of an OpenShift Service Mesh with chaos testing.
Build resilient services
    Use OpenShift Service Mesh strategies to create resilient services.
Secure an OpenShift Service Mesh
    Secure and encrypt services in your application with OpenShift Service Mesh.