DO288
Red Hat OpenShift Developer II: Building Kubernetes Applications

Design, build, and deploy containerized applications on Red Hat OpenShift

Red Hat OpenShift Developer II: Building Kubernetes Applications (DO288) teaches you how to design, build, and deploy containerized software applications on an OpenShift cluster

Whether you are migrating existing applications or writing container-native applications, you will learn how to boost developer productivity powered by Red Hat® OpenShift Container Platform, a containerized application platform that allows enterprises to manage container deployments and scale their applications using Kubernetes.

This course is based on Red Hat OpenShift Container Platform 4.10.

Course content summary

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- Design containerized applications for OpenShift.
- Manage and trigger application builds using Source-to-Image (S2I).
- Customize an existing source-to-image base image.
- Deploy multi-container applications using Helm Charts.
- Create health checks to monitor and improve application reliability.
- Create and deploy cloud-native applications on OpenShift.

Audience for this course

- Enterprise application developers
- DevOps site reliability engineers

Outline for this course

- **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.

- **Manage builds on OpenShift**

  Describe the OpenShift build process, in addition to triggering and managing builds.

- **Customize source-to-image builds**

  Customize an existing S2I base image and create a new one.

- **Deploy multi-container applications**

  Deploy multi-container applications using Helm charts and Kustomize.

- **Manage application deployments**

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

- **Build applications for OpenShift**

  Create, deploy, and integrate third-party applications on OpenShift.

Impact of this training

You will learn about the fundamental concepts behind containerizing, scaling, deploying, and managing applications in Red Hat OpenShift Container Platform. You will acquire these skills:

- Design container images to containerize applications.
- Customize application builds and use Source-to-Image builds.
- Deploy multi-container applications.
- Implement health checks to improve system reliability.