

Red Hat OpenShift Developer II: Building Kubernetes Applications (DO288)

Duration: 40 Hours (5 Days)

Course Overview

The Red Hat OpenShift Developer II: Building Kubernetes Applications (DO288) course is designed to equip learners with the skills needed to deploy and manage applications effectively on an OpenShift cluster. Covering a range of topics from deploying applications using various methods, to Designing containerized applications and managing their builds, the course is comprehensive in scope. Learners will gain hands-on experience with Creating enterprise container registries, publishing images, customizing source-to-image (S2I) builds, and Working with OpenShift templates. Additionally, the course delves into Managing application deployments, Monitoring application health, and implementing advanced deployment strategies. One of the key skills taught is the Creation and management of CI/CD pipelines using Jenkins, which is crucial for facilitating continuous integration and delivery within the OpenShift environment. By mastering these skills, participants of the red hat do288 course will be well-prepared to build and maintain cloud-native applications on OpenShift, aligning with industry best practices for container orchestration and automation.

Audience Profile

The Red Hat OpenShift Developer II course equips participants with the skills to build Kubernetes applications on OpenShift, making it ideal for IT professionals focused on enterprise application development.

- Software Developers and Programmers
- DevOps Engineers
- Cloud Application Developers
- Application Architects
- Software Engineers working with containerized applications
- IT Professionals with a focus on containerization and orchestration
- System Administrators transitioning to DevOps roles
- OpenShift Cluster Operators
- Quality Assurance Engineers involved in CI/CD processes
- Technical Leads overseeing application development teams
- Release Managers coordinating application deployments
- IT Project Managers managing container-based development projects
- Technical IT Consultants designing cloud-native solutions
- Infrastructure Engineers seeking to understand the application deployment process on OpenShift

Course Syllabus

- Red Hat OpenShift Container Platform for Developers
- Define the Red Hat OpenShift architecture, concepts and terminology, and set up the developer environment.
- Deploying Simple Applications
- Deploy simple applications by using the Red Hat OpenShift web console and command-line tools.
- Building and Publishing Container Images

- Build, deploy and manage the lifecycle of container images by using
- a container registry.
- Managing Red Hat OpenShift Builds
- Describe the Red Hat OpenShift build process and build container
- images.
- Managing Red Hat OpenShift Deployments
- Describe the different Red Hat OpenShift deployment strategies and
- how to monitor the health of applications.
- Deploying Multi-container Applications
- Deploy multi-container applications by using Red Hat OpenShift
- templates, Helm charts, and customize.
- Continuous Deployment using Red Hat OpenShift Pipelines
- Implement CI/CD workflows by using Red Hat OpenShift Pipelines.