Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) Training

Duration: **4 Day**

BİLGİNÇ IT Academy

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Design, build, and deploy **cloud-native, containerized applications** using **Red Hat OpenShift** — the industry's leading enterprise Kubernetes platform.

Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) provides developers with the practical knowledge to create, containerize, and deploy applications in OpenShift environments. You will learn how to automate builds, manage deployments, integrate CI/CD pipelines, and leverage Kubernetes-based orchestration to ensure scalability and reliability.

Whether you are **migrating existing applications** or **developing new microservices**, this course enables you to harness the full power of Red Hat OpenShift to accelerate software delivery.

> *This course is based on Red Hat OpenShift 4.18 and applies to all OpenShift editions, including OpenShift on AWS (ROSA), Azure Red Hat OpenShift (ARO), and Red Hat OpenShift Container Platform.*

Who Should Attend

This course is designed for:

- **Software Developers** building or migrating applications to containers.
- **Software Architects** designing container-native systems and microservices.

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What You Will Learn

After completing this course, you will be able to:

- Explore **developer-focused features** within the OpenShift web console.
- **Build and publish container images** to registries for deployment.
- Manage **application builds and deployments** through OpenShift.
- Create and deploy **multi-container applications** using Templates, Helm, and Kustomize.
- Implement **health checks** for improved reliability and uptime.
- Design and deploy **continuous integration/continuous delivery (CI/CD) pipelines** with OpenShift Pipelines (Tekton).

Impact on the Organization

By empowering developers to create **cloud-native applications** on Red Hat OpenShift, organizations can:

- Accelerate **application delivery** and shorten time-to-market.
- Improve **scalability and reliability** through Kubernetes orchestration.
- Streamline **DevOps adoption** using standardized container workflows.
- Deploy consistently across **AWS, Azure, or on-premise** OpenShift clusters.

Red Hat OpenShift serves as the foundation for enterprise DevOps transformation, enabling teams to move from monolithic architectures to agile, containerized ecosystems.

Impact on the Individual

By completing this course, you will gain the skills to:

- Design and build **container images** for your applications.
- Understand how to **deploy and manage** containers effectively.
- Develop and deploy **multi-container workloads**.
- Implement **health checks** for robust and self-healing systems.
- Create automated **CI/CD pipelines** to streamline delivery.

You will walk away ready to confidently develop and manage **production-grade cloud-native applications** on Red Hat OpenShift.

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Training Outline

1. OpenShift Container Platform for Developers
Understand OpenShift architecture, key concepts, and developer tooling.

2. Deploying Simple Applications
Deploy and manage basic applications using both the OpenShift web console and CLI.

3. Building and Publishing Container Images
Create, build, and manage container images using OpenShift's integrated registry.

4. Managing OpenShift Builds
Explore different build strategies and automate image creation.

5. Managing OpenShift Deployments
Learn about deployment strategies (rolling, recreate, blue-green, canary) and monitor application health.

6. Deploying Multi-container Applications
Use OpenShift Templates, Helm Charts, and Kustomize to orchestrate multi-service deployments.

7. Continuous Deployment with OpenShift Pipelines
Implement automated CI/CD workflows with OpenShift Pipelines (Tekton).