

OpenShift for Developers and DevOps Engineers

Course 35665 – 32 Hours

Overview

OpenShift Container Platform is an on-premises platform as a service built around Docker containers and orchestrated by Kubernetes. In this course, we'll learn how OpenShift is working and understand what are the actions that should be taken in order to run, configure and maintain applications on OpenShift. In addition, we'll learn how to implement CI/CD concepts in the OpenShift area.

On Completion, Delegates will be able to

- Understand OpenShift and infrastructure as a code concept.
- Create and application image from your code
- Deploy applications on OpenShift
- Configure and adjust your application deployment for your needs
- Create basic Dev/Ops process on OpenShift

Who Should Attend

- Developers who have experience with application creation and deployments
- DevOps Engineers who have experience with application deployments and basic CI/CD processes.

Prerequisites

- Understanding in application deployment
- Basic knowledge about Yaml format representing maps and arrays.
- Introduction with Jenkins

Course Contents

- OCP Architecture
- OCP tools
 - Cli
 - Web UI
- Using OCP
 - Projects
 - Service catalog
- Introduction to Docker
- Pods and Deployments

- Deploying an application
- Deployment Strategies
- Events
- Application Configuration
 - Config Maps
 - Files
 - Environment Variables
 - Secrets
 - Persistent Volume Claims
- Services and Routes
 - Basic concepts of connection to application
 - Configure services
 - Configure route
- Working with Template
 - Template configuration
- OpenShift permissions
 - Roles and cluster roles
 - Security context constraints
- Source to image
 - How to use build config
 - Build config strategies
- CI/CD with OpenShift
 - Configure Jenkins with Openshift
 - Using Jenkins CI/CD