DO326: Red Hat Openshift Migration Lab

Course Code: DO326
Duration: 2 days
Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

Migrate application workloads, including its Kubernetes resources, data, and container images, when upgrading from OpenShift 3 to 4 or from OpenShift 4.x to the latest version.

Red Hat Openshift Migration Lab (DO326) is designed for OpenShift professionals migrating workloads from legacy deployments of OpenShift Container Platform running 3.11 onto a 4.9 installation. Students will gain practical working experience with the Migration Toolkit for Containers (MTC) to leverage in real-world migration scenarios.

- Assessing OpenShift 3 to OpenShift 4 migration scenarios.
- Discussion of OpenShift 4 minor version migration scenarios.
- Deploying the Migration Toolkit for Containers.
- Migrating Persistent Volumes application data between OpenShift clusters.
- Migrating application images from the internal registry between OpenShift clusters.
- Moving Kubernetes manifests application resources between OpenShift clusters.
- Migrating Kubernetes cluster settings between OpenShift clusters.

SKILLS COVERED

Impact on the organization

Successful migration from OpenShift 3 to OpenShift 4 is a critical factor in maintaining continuity for customers with established workloads on legacy OpenShift 3. To preserve continued support and innovation, organizations must ensure a careful and precise transition of applications using Red Hat's tools and best practices. In comparison to OpenShift 3, OpenShift 4 brings in sophisticated automation, self-service, governance, and cloud-native features that are based on Kubernetes Operators to enable a wider variety of application modernization and digital transformation efforts.

Impact on the individual

Learning to apply skills needed to migrate workloads from OpenShift 3 to OpenShift 4 using the Migration Toolkit for Containers will set up students to safely and correctly complete migrations in their organizations.

WHO SHOULD ATTEND?

- Red Hat consultants and partners responsible for customer success and who want to migrate from OpenShift 3 to OpenShift 4.
- OpenShift professionals responsible for the transition of workloads onto OpenShift 4.

PREREQUISITES

- Take our free assessment to gauge whether this offering is the best fit for your skills.
- Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280) is highly recommended in order to be successful in this course.

- Red Hat OpenShift Installation Lab (DO322) is suggested.

MODULES

Module 1: Planning an OpenShift 3 to 4 migration

Module 2: Preparing the target cluster for migration

Module 3: Deploying the Migration Toolkit for Containers (MTC)

Module 4: Migrating applications using the MTC

Module 5: Mapping application dependencies and dandling migration issues

Module 6: Automating application migrations using the MTC API and Ansible

Module 7: Reducing downtime during a migration process

Module 8: Red Hat OpenShift 3 to 4 migration lab comprehensive review

END OF PAGE