



Red Hat OpenShift I: Containers & Kubernetes (DO-180)

- **Course description**

Introduction to building and managing containers for deployment on a Kubernetes and OpenShift 4 cluster

Red Hat OpenShift I: Containers & Kubernetes (DO180) introduces students to building and managing containers for deployment on a Kubernetes cluster. This course helps students build core knowledge and skills in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat OpenShift Container Platform needed for multiple roles, including developers, administrators and site reliability engineers.

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

- **Course content summary**

- Container and OpenShift architecture
- Creating containerized services
- Managing containers and container images
- Creating custom container images
- Deploying containerized applications on OpenShift
- Deploying multi-container applications

- **Audience for this course**

- Developers who want to containerize software applications.
- Administrators who are new to container technology and container orchestration.
- Architects who are looking to use container technologies in software architectures.
- Site Reliability Engineers who want to support their technology infrastructure using Kubernetes and OpenShift.

- **Prerequisites for this course**

- [Take our free assessment](#) to gauge whether this offering is the best fit for your skills.
- Experience in the use of a Linux terminal session, issuing operating system commands, and familiarity with shell scripting. A [Red Hat Certified System Administrator \(RHCSA\)](#) certification is recommended but not required.
- Some experience with web application architectures and their corresponding technologies.

- **Technology considerations**

This course requires Internet connectivity to access public facing resources.





MRGT

Mature Resources Global
Technologies Pvt. Ltd.

1. Outline for this course

Introducing container technology

Describe how software can run in containers orchestrated by Red Hat OpenShift Container Platform.

Creating containerized services

Provision a service using container technology.

Managing containers

Modify pre-build container images to create and manage containerized services.

Managing container images

Manage the life cycle of a container image from creation to deletion.

Creating custom container images

Design and code a Container file to build a custom container image.

Deploying containerized applications on OpenShift

Deploy single container applications on OpenShift Container Platform.

Deploying multi-container applications

Deploy applications that are containerized using multiple container images.

Troubleshooting containerized applications

Troubleshoot a containerized application deployed on OpenShift.

Comprehensive review of introduction to container, Kubernetes, and Red Hat OpenShift

Demonstrate how to containerize a software application, test it with Podman, and deploy it on an OpenShift cluster.

Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, [contact one of our Red Hatters](#).

ISLAMABAD OFFICE

Al-Ahmed Heights, Plaza 33, Near Lignum Tower,
DHA Phase II, Islamabad, Pakistan 44000

