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**Learning Style: Virtual Classroom**

**Provider: Red Hat**

**Difficulty: Intermediate**

**Course Duration: 5 Days**

## **Red Hat OpenShift Administration III: Scaling Deployments in the Enterprise (DO380VT)**



## About this course:

You will design an OpenShift HA cluster, then build and test it. You will use this cluster to examine more advanced topics in the administration and operation of a robust OpenShift cluster in the remainder of the course.

The average salary of a Red Hat Software Engineer salary is **\$87,078** per year.

## Course Objective:

- Learn OpenShift cluster features, architecture, and sizing.
- Investigate OpenShift cluster installation methods.
- Configure storage providers and storage classes.
- Manage OpenShift certificates.
- Configure GlusterFS container-native storage.
- Diagnose cluster health.
- Scale OpenShift clusters.
- Manage OpenShift resources.

## Audience:

- This course is designed for Linux® system administrators who want to deploy and manage a large-scale Red Hat® OpenShift Container Platform environment in their datacenters.

## Prerequisite:

Red Hat recommends these prerequisites:

- Become a Red Hat Certified System Administrator, or demonstrate equivalent experience
- Attend Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180) or demonstrate equivalent experience with containers, Kubernetes, and OpenShift
- Attend Red Hat OpenShift Administration I (DO280) or demonstrate equivalent experience with OpenShift
- Recommended, but not required: become a Red Hat Certified Specialist in OpenShift Administration (EX280)

## Course Outline:

### Design a highly available cluster

Design an OpenShift cluster that supports high availability and resiliency.

### Prepare to install an HA cluster

Configure the advanced installer and prepare the cluster environment for HA installation.

### **Configure OpenShift to use custom certificates**

Configure the OpenShift cluster to use custom certificates.

### **Build an HA cluster**

Use the advanced installation method to build an HA OpenShift cluster.

### **Provision persistent storage**

Describe storage providers, configure a provider, create a storage class, and test the configuration.

### **Enable log aggregation**

Consolidate useful data for analysis by enabling the log aggregation feature.

### **Maintain an OpenShift cluster**

Perform recurring maintenance activities on an OpenShift cluster.

### **Manage system resources**

Manage operating system and cluster resources for optimal performance.

### **Configure security providers**

Configure security providers and advanced security options.

### **Configure networking options**

Configure various advanced networking features and options.

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