RED HAT OPENSTACK ADMINISTRATION II: DEPLOY CONTROL PLANE SERVICES AND MANAGE DATA PLANE NODES (CL270)

Course Code: 832041

CL270 Learn to deploy and manage Red Hat OpenStack Services on OpenShift and its external data plan nodes.

OpenStack Administration II: Deploy Control Plane Services and Manage Data Plane Nodes (CL270) is designed for administrators of Red Hat OpenStack who want to enhance their skills in deploying and managing Red Hat OpenStack Services on OpenShift.

Participants will learn the processes, tools, and technologies to set up a functional OpenStack cluster, and to manage and troubleshoot data plane nodes to host cloud user workloads.

Through hands-on practice and real-world scenarios, attendees will install prerequisite operators and create custom resources effectively. In addition, attendees will develop troubleshooting skills for managing OpenStack compute nodes by using the External Data Plane Management (EDPM) automation engine.

This course is based on Red Hat OpenStack Services on OpenShift 18.

Note: Starting January 1, 2026, Red Hat introduces RHLS-Course — a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.

When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.

Your RHLS subscription includes:

- *One live, instructor-led virtual session*
- *12 months of self-paced learning access*
- *One certification exam with a free retake*

Onsite Classroom-based sessions and closed course options remain unchanged.
Updated March2026

What You'll Learn

After this course participants should be able to:

- Assess and compare a data center environment with commonly used architectures, and prepare to perform an installation of Red Hat OpenStack Services on OpenShift.
- Install the OpenStack operator and assess the health of its dependent operators.
- Inspect the network and storage resources that are available in an environment, and deploy an OpenStack control plane.
- Configure RHEL servers with the required resources to be added as data plane nodes.
- Deploy the custom resources for a node set and a data plane, and verify that the data plane can handle a test user workload.
- Add and remove data plane nodes from a node set, and verify the services that are running in the node.
- Configure the resources of an RHOSO cluster to support cloud user workloads.

Who Needs to Attend

- Platform engineers, cloud administrators, and system administrators who are responsible for the administration of Red Hat OpenStack clusters, and who must be able to deploy and maintain them.

Prerequisites

- Red Hat Certified Engineer (RHCE) certification, or equivalent skills in Ansible automation and RHEL administration is recommended.
- The OpenStack Administration: Control Plane Management course (CL170), or equivalent experience with the basic administration of Red Hat OpenStack Services on OpenShift.

Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at Red Hat Skills Assessment

- Red Hat OpenStack Administration I: Control Plane Management

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VIRTUAL CLASSROOM LIVE	$3,170 CAD	2 Day

Virtual Classroom Live Outline

1. **Preparing to Deploy a RHOSO Cluster**
   Assess and compare a data center environment with commonly used architectures, and prepare to perform an installation of Red Hat OpenStack Services on OpenShift (RHOSO).
2. **The OpenStack Operator**
   Configure prerequisite operators and resources, and install the OpenStack operator.
3. **Deploying a RHOSO Control Plane**
   Configure the OpenShift custom resources that are required to deploy an OpenStack control plane, and then deploy the control plane.
4. **Preparing RHEL Servers for Data Plane Deployment**
   Configure RHEL Servers with the required resources to be added as data plane nodes.
5. **Deploying a RHOSO Data Plane**
   Create the custom resources for a node set and a data plane, and verify that the data plane can handle a test user workload.
6. **Managing Data Plane Node Sets**
   Add and remove data plane nodes from a node set, and troubleshoot, fix, and verify the services that are running in a node.
7. **Preparing a RHOSO Cluster for User Workloads**
   Configure the resources of a RHOSO cluster to support cloud user workloads.

Nov 12 - 13, 2026 | 10:30 AM - 6:30 PM EST

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ON-DEMAND	$3,170 CAD

On-Demand Outline

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   Assess and compare a data center environment with commonly used architectures, and prepare to perform an installation of Red Hat OpenStack Services on OpenShift (RHOSO).
2. **The OpenStack Operator**
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3. **Deploying a RHOSO Control Plane**
   Configure the OpenShift custom resources that are required to deploy an OpenStack control plane, and then deploy the control plane.
4. **Preparing RHEL Servers for Data Plane Deployment**
   Configure RHEL Servers with the required resources to be added as data plane nodes.
5. **Deploying a RHOSO Data Plane**
   Create the custom resources for a node set and a data plane, and verify that the data plane can handle a test user workload.
6. **Managing Data Plane Node Sets**
   Add and remove data plane nodes from a node set, and troubleshoot, fix, and verify the services that are running in a node.
7. **Preparing a RHOSO Cluster for User Workloads**
   Configure the resources of a RHOSO cluster to support cloud user workloads.

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