

DO280 - Red Hat OpenShift Administration II: Configuring a Production Cluster

LENGTH

4 days

PRICE (Excl. GST)

NZD 5120

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WHY STUDY THIS COURSE

This course prepares OpenShift Cluster Administrators to perform daily administration tasks on clusters that host applications provided by internal teams and external vendors, enable self-service for cluster users with different roles, and deploy applications that require special permissions such as CI/CD tooling, performance monitoring, and security scanners. This course focuses on configuring multi-tenancy and security features of OpenShift as well as managing OpenShift add-ons based on operators.

The skills you learn in this course can be applied using all versions of OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift (ARO), and OpenShift Container Platform.

This course is based on OpenShift Container Platform 4.12.

WHAT YOU'LL LEARN

As a result of attending this course, students will be able to perform the set of tasks that OpenShift cluster administrators are expected to perform in their daily jobs for on-premises, cloud-based, and vendor-managed clusters, including enabling add-on operators. Students will also be able manage multi-tenant permissions for different roles and configure applications that require privileged access to cluster and host resources.

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COURSE SUBJECTS

Declarative Resource Management

Deploy and update applications from resource manifests that are parameterised for different target environments.

Deploy Packaged Applications

Deploy and update applications from resource manifests that are packaged for sharing and distribution.

Authentication and Authorisation

Configure authentication with the HTPasswd identity provider and assign roles to users and groups.

Network Security

Protect network traffic between applications inside and outside the cluster.

Expose non-HTTP/SNI Applications

Expose applications to external access without using an Ingress controller.

Enable Developer Self-Service

Configure clusters for safe self-service by developers from multiple teams and disallow self-service if projects have to be provisioned by the operations staff.

Manage Kubernetes Operators

Install and update Operators that are managed by the Operator Lifecycle Manager and by the Cluster Version Operator.

Application Security

Run applications that require elevated or special privileges from the host Operating System or Kubernetes.

OpenShift Updates

Update an OpenShift cluster and minimise disruption to deployed applications.



My instructor was great being able to put scenarios into real world instances that related to my specific situation.

I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.

I learnt a lot and felt it was important that my goals by attending this course were met.

Great job Lumify Work team.

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WHO IS THE COURSE FOR?

- System Administrators and Platform Operators interested in the ongoing management of OpenShift clusters, applications, users, and add-ons.
- Site Reliability Engineers interested in the ongoing maintenance and troubleshooting of Kubernetes clusters.
- System and Software Architects interested in understanding the security of an OpenShift cluster.

Lumify Work Customised Training

We can also deliver and customise this training course for larger groups saving your organisation time, money and resources.

For more information, please contact us on [0800 835 835](tel:0800835835).

PREREQUISITES

- [Take the free assessment](#) to gauge whether this offering is the best fit for your skills.
- Prerequisite: [Red Hat OpenShift Administration I: Operating a Production Cluster \(DO180 v4.12\)](#), or equivalent skills deploying and managing Kubernetes applications using the OpenShift web console and command-line interfaces.

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

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