

# Red Hat Certified OpenShift Application Developer Exam (EX288)

ID EX288 Price CHF 557.—(excl. VAT) Duration 3 hours

## Who should attend

- Application developers who are responsible for implementing and supporting applications in the Red Hat OpenShift Container Platform
- DevOps engineers who are responsible for delivering applications in the Red Hat OpenShift Container Platform
- Site reliability engineers working with Red Hat OpenShift Container Platform

## Prerequisites

- Prior to taking this exam, you should possess a basic understanding of container technology. Some programming experience is strongly recommended but not required
- Completion of [Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications \(DO288\)](#) is strongly encouraged but not required
- Earning the Red Hat Certified Specialist in Containers credential is strongly encouraged but not required
- Take our free assessment to find the course that best supports your preparation for this exam

## Preparation

Red Hat encourages you to consider taking Red Hat OpenShift Development I: Introduction to Containers with Podman and Red Hat OpenShift Developer II: Building Kubernetes Applications to help prepare. Attendance in these classes is not required; students can choose to take just the exam.

While attending Red Hat classes can be an important part of one's preparation to take this exam, attending class does not guarantee success on the exam. Previous experience, practice, and native aptitude are also important determinants of success.

Many books and other resources on system administration for Red Hat's products are available. Red Hat does not officially endorse any as preparation guides for its exam. Nevertheless, you may find additional reading deepens understanding and can prove helpful.

## Course Content

To help you prepare, the exam objectives highlight the task areas you can expect to see covered in the exam. Red Hat reserves the right to add, modify, and remove exam objectives. Such changes will be made public in advance.

As part of this exam, you should be able to perform these tasks:

### Work with Red Hat OpenShift Container Platform

- Create and work with multiple OpenShift projects
- Create and deploy single container and multi-container applications
- Use application health monitoring
- Understand basic Git usage and work with Git in the context of deploying applications in OpenShift
- Configure the OpenShift internal registry to meet specific requirements
- Manage applications with the web console

### Deploy multi-container applications

- Create and use Helm charts
- Customizing deployments with Kustomize

### Work with container images in OpenShift Container Platform

- Understand how to create container images based on pre-built images
- Understand and work with image builds and image build configurations
- Work with custom builder workflows to create images to use with OpenShift Container Platform
- Publish container images to a the OpenShift image registry

### Troubleshoot application builds and deployment issues

- Diagnose and correct minor issues with application deployment
- Diagnose and correct minor issues with build process

### Work with image streams

- Create custom image streams to deploy applications
- Pull applications from existing Git repositories
- Trigger updates on image stream changes
- Debug minor issues with application deployment

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## Work with configuration maps

- Create configuration maps
- Create secret resources
- Use configuration maps to inject data into applications

## Work with the source-to-image (S2I) framework

- Build and deploy applications using S2I framework
- Customize existing S2I builder images

## Work with hooks and triggers

- Create a build hook that runs a provided script
- Test and confirm proper operation of the hook
- Manage and trigger application builds

## Work with templates

- Create an OpenShift template
- Use pre-existing templates written in either JSON or YAML format
- Work with multi-container templates
- Add custom parameters to a template

## Work with OpenShift Pipelines

- Understanding CI/CD process inside of OpenShift
- Understand and work with standard Tekton custom resource definitions (CRDs) for defining CI/CD pipelines
- Design and define, and troubleshoot CI/CD workflows for applications
- Configure and trigger Pipeline workflows for applications

## Work with Operators accessible for users to run in their applications

- Creating applications from installed Operators

During the exam you may be required to work with one or more pre-written applications. You will not be required to modify application code however in some cases you may need to utilize supplied documentation in order to fully test and complete the deployment of a given application.

## Exam format

This exam consists of a single section lasting three hours. The exam is a performance based evaluation of candidates' abilities to deploy applications in a Red Hat OpenShift Container Platform environment. Candidates perform a number of routine tasks associated with deploying applications similar to those they would

be expected to perform in an OpenShift Container Platform DevOps environment and are evaluated on whether those applications meet specific objective criteria.

This exam can also be taken virtually as part of our remote testing format. Find out more about remote exams to see if this is the right choice for you.

## Scores and reporting

Official scores for exams come exclusively from Red Hat Certification Central. Red Hat does not authorize examiners or training partners to report results to candidates directly. Scores on the exam are usually reported within 3 U.S. business days.

Exam results are reported as total scores. Red Hat does not report performance on individual items, nor will it provide additional information upon request.

You are eligible for one exam retake if you are unsuccessful on your first attempt.

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