Red Hat Certified Specialist in OpenShift Data Foundation exam

Course code: EX370

The Red Hat Certified Specialist in OpenShift Data Foundation exam (EX370) tests the knowledge, skills, and ability to create and manage storage for container based applications using Red Hat OpenShift Data Foundation.By passing this exam, you become a Red Hat Certified Specialist in OpenShift Data Foundation that also counts towards earning a Red Hat Certified Architect (RHCA®).Objectives listed for this exam are based on the most recent Red Hat product version available.

Who is the exam for

- Systems administrators, cloud administrators, cloud engineers responsible for maintaining an OpenShift and Kubernetes based cloud infrastructure.
- Site reliability engineers (SREs)

Required skills

- Red Hat Certified Systems Administrator certification (EX200) or equivalent knowledge of Linux system administration is recommended.
- Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation (DO370) or equivalent experience is recommended.
- Red Hat Certified Specialist in OpenShift Administration certification (EX280) or equivalent experience is recommended.
- Basic knowledge of Red Hat Ansible Automation Platform is recommended but not required.
- Basic knowledge of storage technologies, such as disk types, SAN, and NAS is recommended.
- Take our free assessment to find the course that best supports your preparation for this exam.

Study points for the exam

Candidates for the Red Hat Certified Specialist in OpenShift Data Foundation exam should be able to accomplish the tasks listed below without assistance. These have been grouped into several categories:

- Manage OpenShift Container Platform
- Use the command line interface to manage and configure an OpenShift Container Platform cluster
- Use the web console to manage and configure an OpenShift Container Platform cluster
- Create and delete projects
- Create, edit, and delete ConfigMaps and secrets
- Import, export, and configure Kubernetes resources
- Examine resources and cluster status
- View logs
- Monitor cluster events and alerts
- Troubleshoot common cluster events and alerts
- Use product documentation
- Deploy OpenShift Data Foundation using internal mode
- Deploy OpenShift Data Foundation from the web console
- Deploy OpenShift Data Foundation from the command line
- Configure OpenShift cluster services to use Red Hat OpenShift Data Foundation
- Configure the internal image registry to Use Red Hat OpenShift Data Foundation
- Configure monitoring to use Red Hat OpenShift Data Foundation
- Deploy and manage applications and images
- Deploy applications to Red Hat OpenShift Container Platform using the web console
- Deploy applications to Red Hat OpenShift Container Platform using the command line
- Configure applications to use ConfigMaps and secrets
- Understand and use image tags

GOPAS Praha
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk

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- Create and edit external routes
- Troubleshoot applications in OpenShift
- Understand the description of application resources.
- View and use application logs
- Inspect running applications
- Connect to containers running in a pod
- Copy resources to and from containers running in a pod
- Configure application workloads to use Red Hat OpenShift Data Foundation file and block storage
- Identify Ceph components needed for a Red Hat OpenShift Data Foundation Implementation
- Configure applications to use Red Hat OpenShift Data Foundation file storage
- Configure applications to use Red Hat OpenShift Data Foundation block storage
- Configure custom storage classes
- Manage Red Hat OpenShift Data Foundation block and file storage capacity
- Monitor Red Hat OpenShift Data Foundation cluster health
- Configure storage quotas and permissions
- Extend application storage for Red Hat OpenShift Data Foundation
- Add disks to a Red Hat OpenShift Data Foundation Cluster
- Perform backup and restore of Kubernetes block and file volumes
- Backup and restore Kubernetes applications
- Create volume snapshots and clones
- Configure applications to use Red Hat OpenShift Data Foundation object storage
- Create object bucket claims and access object storage
- Configure applications to use Red Hat OpenShift Data Foundation object storage
- Monitor Red Hat OpenShift Data Foundation object buckets
- Control access to resources
- Define role-based access controls
- Apply permissions to users
- Create and apply secrets to manage sensitive information
- Create service accounts and apply permissions using security context constraints
- Configure pod scheduling
- Limit resource usage
- Control pod placement across cluster nodes

What you need to know

Preparation

Red Hat encourages you to consider taking Enterprise Kubernetes Storage with Red Hat OpenShift Data Foundation (DO370) 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 your preparation, 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 products are available. Red Hat does not endorse any of these materials as preparation guides for exams. Nevertheless, you may find additional reading helpful to deepen your understanding.

Exam format

This exam is a performance-based evaluation of skills and knowledge required to configure and manage a cloud application storage using OpenShift Data Foundation. Candidates perform routine configuration and administrative tasks using Red Hat OpenShift Data Foundation and Red Hat OpenShift Container Platform and are evaluated on

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info@gopas.cz

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info@gopas.sk

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whether they have met specific objective criteria. Performance-based testing means that candidates must perform tasks similar to what they perform on the job.

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.

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info@gopas.sk

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