

# Preliminary Exam in Red Hat OpenStack Administration

Course code: PE110

The Red Hat Preliminary Exam in Red Hat OpenStack Administration (PE110) is a performance-based exam to evaluate your knowledge in managing cloud infrastructures using Red Hat OpenStack Platform. The skills tested in this exam are the foundation for using OpenStack across all environments. Objectives listed for this exam are based on the most recent Red Hat product version available.

## Who is the exam for

The following audiences may be interested in taking this exam:

- Experienced or novice system administrators who want to demonstrate their use of Red Hat OpenStack Platform skills.
- Students who have attended Red Hat OpenStack Administration I (CL110) and are on the path to becoming a Red Hat Certified System Administrator (RHCSA) in Red Hat OpenStack Platform

## Required skills

Candidates for this exam should:

- Become a Red Hat Certified System Administrator (RHCSA) or have comparable work experience.
- Have taken the Red Hat OpenStack Administration I: Core Operations for Domain Operators (CL110) course or have comparable work experience using Red Hat Enterprise Linux OpenStack Platform.
- Review the Red Hat Preliminary Exam in Red Hat OpenStack exam (PE110) objectives.

## Study points for the exam

Candidates for the Preliminary Exam in Red Hat OpenStack Administration should be able to perform the following tasks. These have been grouped into several categories:

### Understand and work with director-based deployments

Use identity environment files to connect to the undercloud

Use identity environment files to connect to the overcloud

Use template files, environment files and other resources to obtain information about an OpenStack environment

Work with containerized services

### Configure OpenStack domains

Create projects

Create groups

Create users

Manage quotas

### Create resources

Create virtual machine flavors

Add existing images to an overcloud

Create security groups

Create key pairs

### Configure networking

Create and assign networks to projects

Configure network routers

Configure software defined networks

Work with Open Virtual Networks (OVN)

#### GOPAS Praha

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

#### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

#### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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## Configure floating IP addresses

Configure an instance to use a floating IP address

Configure a service to be accessible via a floating IP address

## Manage instances

Launch instances

Associate instances with specified projects and networks

Use key pairs to connect to instances

Configure an instance during deployment

## What you need to know

### Exam format

The Red Hat Preliminary Exam in Red Hat OpenStack Administration exam is a hands-on, practical exam that requires you to undertake real-world tasks. Internet access is not provided during the exam, and you will not be permitted to bring any hard copy or electronic documentation into the exam. This prohibition includes notes, books, or any other materials. For most exams, the documentation that ships with the product is available during the exam.

### 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.

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.

#### GOPAS Praha

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

#### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

#### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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