

Red Hat Certified Specialist in Virtualization exam

Course code: EX318

The performance-based Red Hat Certified Specialist in Virtualization exam [EX318] tests your ability to create, deploy, and manage Linux® virtual machines using Red Hat® Virtualization Manager. By passing this exam, you become a Red Hat Certified Specialist in Virtualization, which also counts toward becoming a Red Hat Certified Architect (RHCA®). This exam is based on Red Hat Virtualization 4.3.

Who is the course for

These audiences may be interested in becoming a Red Hat Certified Specialist in Red Hat Virtualization:

- Linux system administrators who are responsible for, or seeking responsibility for, implementing and managing virtualization infrastructures
- System administrators from other platforms
- Any Red Hat Certified Engineers (RHCE®) who wishes to become a Red Hat Certified Architect (RHCA).

Required skills

- Experience using Red Hat Enterprise Virtualization
- Red Hat Certified Systems Administrators or those with equivalent experience

What you need to know

Red Hat encourages all candidates for the Red Hat Certified Specialist in Red Hat Virtualization to consider taking the Red Hat Virtualization courses 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 Red Hat Virtualization Manager administration skills and knowledge. You perform a number of routine tasks using Red Hat Virtualization Manager and are evaluated on whether you have met specific objective criteria. Performance-based testing means you must perform tasks similar to what you perform on the job.

The Red Hat Certified Specialist in Red Hat Virtualization exam [EX318] is a single-section exam lasting 3 hours.

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.

Course outline

Red Hat recommends that you become a Red Hat Certified System Administrator (RHCSA) before attempting this exam, but it is not required.

To help you prepare, these 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.

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You should be able to perform these tasks:

Install Red Hat Virtualization Manager (RHVM) and Red Hat Virtualization

- Hypervisor (RHVH)
- Install Red Hat Virtualization Manager and any dependencies
- Configure Red Hat Virtualization Manager to authenticate against an external IPA service.
- Install Red Hat Virtualization Hypervisor
- Add one or more Red Hat Virtualization Hypervisor instances to Red Hat Virtualization Manager
- Create and manage datacenters and clusters

Manage storage

- ?Configure NFS services
- Configure storage domains
- Import installation media into a storage domain

Create and manage virtual machines

- Install virtual machines
- Access virtual machine consoles with SPICE and VNC
- Start and stop virtual machines
- Edit virtual machine hardware characteristics
- Configure automatic migration for virtual machines

Work with virtual machine images

- Create snapshots
- Create virtual machines from snapshots
- Import existing virtual machine images into Red Hat Virtualization Manager

Create and manage Red Hat Virtualization Manager users

- Create internal users
- Create external users
- Configure roles and assign users to those roles
- Configure access using roles

Automatically deploy virtual machines

- Create virtual machine templates
- Deploy virtual machines using templates
- Configure virtual machines using cloud-init

Create and manage networking objects

- Create logical networks
- Assign hosts to logical networks
- Create MAC address pools
- Assign MAC address pools to clusters

Create and manage cluster policies

- Create scheduling and migration policies
- Assign policies to clusters

As with all Red Hat performance-based exams, configurations must persist after reboot without intervention.

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