# RED HAT CERTIFIED SPECIALIST IN VIRTUALIZATION EXAM (EX318, EX318K)

Course Code: 1257

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®)]().

Objectives listed for this exam are based on the most recent Red Hat product version available. Click "Get started" to view all versions of this exam available for purchase.

## What You'll Learn

Students will learn to,

- Install Red Hat Virtualization Manager (RHVM) and Red Hat Virtualization Hypervisor (RHVH)
- Manage storage
- Create and manage virtual machines
- Work with virtual machine images
- Create and manage Red Hat Virtualization Manager users
- Automatically deploy virtual machines
- Create and manage networking objects
- Create and manage cluster policies

## Who Needs to Attend

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 wish to become a Red Hat Certified Architect (RHCA)

## Prerequisites

- Have experience using Red Hat Enterprise Virtualization
- Become a Red Hat Certified System Administrator (RHCSA®), or demonstrate equivalent experience

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| CLASSROOM LIVE | $500 USD | 1 Day |
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| ON-DEMAND | $500 USD |
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## On-Demand 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.

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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| PRIVATE GROUP TRAINING | 1 Day |
|---|---|

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