

## Red Hat Virtualization

**Duration: 4 Days    Course Code: RH318**

### Overview:

Deploy, configure, manage, and migrate virtual environments!

Red Hat Virtualization (RH318) teaches you the skills needed to deploy, administer, and operate virtual machines in your organization using Red Hat® Virtualization. Through numerous hands-on exercises, you will demonstrate the ability to deploy and configure the Red Hat Virtualization infrastructure and use it to provision and manage virtual machines. This offering also prepares you for the Red Hat Certified Specialist in Virtualization exam.

This course is based on Red Hat Enterprise Virtualization 4.3 and Red Hat Enterprise Linux® 7.6 and 8, as well as Red Hat Hyperconverged Infrastructure for Virtualization 1.6.

### Target Audience:

Linux system administrators, virtualization administrators, and hybrid infrastructure engineers interested in deploying large-scale virtualization solutions and managing virtual servers in their datacenters, based on the Red Hat Virtualization open virtualization management platform.

### Objectives:

- This course is intended to develop the skills needed to improve efficiency within a virtualization environment. Expected results include reducing IT infrastructure costs by virtualizing more workloads on less hardware while avoiding vendor lock-in.
- This class will train virtualization administrators to work more efficiently by using Red Hat Virtualization to deploy, manage, and monitor virtualization environments, resulting in faster response times for users requesting and using virtualized resources. Virtualization engineers will also learn about new forward-looking choices in virtualization design for distributed offices using hyperconverged infrastructure and migration procedures for sites currently running VMware clusters.
- As a result of attending this course, you should be able to create and deploy Red Hat Virtualization and virtual servers. Using a single, full-service management interface, Red Hat Virtualization Manager, you will be able to configure, manage, and migrate systems within the virtualization environment. Following completion of this course you will have the knowledge and experience to:
- Configure Red Hat Virtualization
- Configure networking and storage for use with Red Hat Virtualization
- Manage user accounts and access to the Red Hat Virtualization environment
- Install and manage virtual machines in Red Hat Virtualization
- Use templates for rapid virtual machine deployment
- Manage virtual machine snapshots and images
- Migrate virtual machines and explore high-availability options

### Prerequisites:

Become a Red Hat Certified System Administrator (RHCSA®), or demonstrate equivalent experience or being a Red Hat Certified Engineer (RHCE®) is strongly recommended for Ansible® automation comprehension.

System administration experience on Microsoft Windows® operating systems beneficial, but is not necessary for this course.

### Testing and Certification

This course will help you prepare for the Red Hat Certified Virtualization Administrator (EX318) exam.

Alternatively you could enroll for the RH319 course that includes the EX318 Exam.

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## Content:

Red Hat Virtualization overview	Scale Red Hat Virtualization infrastructure	Manage virtual machine images
Explain the purpose and architecture of Red Hat Virtualization.	Add Red Hat Virtualization hosts automatically, configure Red Hat Enterprise Linux hosts when appropriate, and move and remove hosts from data centers as needed.	Manage virtual machine snapshots and disk images.
Install and configure Red Hat Virtualization		Automating virtual machine deployment
Install a minimal Red Hat Virtualization environment and use it to create a virtual machine.	Manage Red Hat Virtualization networks	Automate deployment of virtual machines by using templates and cloud-init.
Create and manage datacenters and clusters	Separate network traffic into multiple networks on one or more interfaces to improve the performance and security of Red Hat Virtualization.	Back up and upgrade Red Hat Virtualization
Organize hypervisors into groups using datacenters and clusters.	Manage Red Hat Virtualization storage	Back up, restore, and upgrade the software in a Red Hat Virtualization environment.
Manage user accounts and roles	Create and manage data and ISO storage domains.	Explore high-availability practices
Configure user accounts using a central directory service, then use roles to assign access to resources based on job responsibilities.	Deploy and manage virtual machines	Explain procedures to improve the resilience and reliability of Red Hat Virtualization by removing single points of failure and implementing high-availability features.
Adding physical hosts	Operate virtual machines in the Red Hat Virtualization environment.	Perform comprehensive review
Add additional Red Hat Virtualization hosts automatically, and move and remove hosts from datacenters as needed.	Migrate virtual machines	Demonstrate skills learned in this course by installing and configuring Red Hat Virtualization; using the platform to create and manage virtual machines; and backing up and updating components of Red Hat Virtualization.
	Migrate and control automatic migration of virtual machines.	

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## Additional Information:

### Red Hat Learning Subscriptions:

The Red Hat Learning Subscription is an exclusive program that provides users with 12-months access to all Red Hat Online Learning and video classroom courses. All subscribers will receive unlimited access to online learning content, up to 400 hours of hands-on lab time and more than 300 recorded instructor videos.

There are two versions available: Basic and Standard. These are also available in an Enterprise variant for large companies. The Standard is the most extensive subscription and offers access to Red Hat exams as an extra.

For more information please see LS120 and LS220 below

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### Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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