Red Hat Virtualization

Course code: RH318

Get the skills required to deploy and manage virtual environmentsRed Hat Virtualization (RH318) helps IT professionals acquire the skills needed to deploy, administer, and operate virtual machines in their organization using Red Hat® Virtualization.This course is based on Red Hat Enterprise Virtualization 4.1 and Red Hat Enterprise Linux® 7.3.

Who is the course for

Linux system administrators and virtualization administrators interested in deploying and managing large-scale

virtualization solutions managing virtual servers in their datacenters, based on the Red Hat Virtualization open

virtualization management platform.

What we teach you

Through numerous hands-on exercises, you will deploy and configure Red Hat Virtualization and use it to provision and

manage virtual machines. This course also prepares you for the Red Hat Certified Specialist in Virtualization

certification exam.
Course content summary
  - Installing and configuring Red Hat Virtualization
  - Configuring networking and storage for use with Red Hat Virtualization
  - Managing user accounts and access to the Red Hat Virtualization environment
  - Installing and managing virtual machines in Red Hat Virtualization
  - Using templates for rapid virtual machine deployment
  - Managing virtual machine snapshots and images
  - Backing up and upgrading Red Hat Virtualization
  - Migrating virtual machines and exploring high availability options

Required skills

Red Hat Certified System Administrator (RHCSA®) certification or equivalent experience

Course outline

Red Hat Virtualization overview
  - Explain the purpose and architecture of Red Hat Virtualization.
Installing and configuring Red Hat Virtualization
  - Install a minimal Red Hat Virtualization environment and use it to create a virtual machine.
Creating and managing datacenters and clusters
  - Organize hypervisors into groups using datacenters and clusters.
Managing user accounts and roles
  - Configure user accounts using a central directory service.
  - Assign access to resources based on job responsibilities using roles.
Adding physical hosts
  - Add additional Red Hat Virtualization hosts automatically, and move and remove hosts from datacenters as needed.
Managing Red Hat Virtualization networks
  - Separate network traffic into multiple networks on one or more interfaces to improve the performance and security of Red Hat Virtualization.
Managing Red Hat Virtualization storage
  - Create and manage data and ISO storage domains.
Deploying and managing virtual machines

GOPAS®

- Operate virtual machines in the Red Hat Virtualization environment.

Migrating virtual machines

- Migrate and control automatic migration of virtual machines.

Managing virtual machine images

- Manage virtual machine snapshots and disk images.

Automating virtual machine deployment

- Automate deployment of virtual machines by using templates and cloud-init.

Backing up and upgrading Red Hat Virtualization

- Back up, restore, and upgrade Red Hat Virtualization.

Exploring high-availability practices

- Explain procedures to improve resilience and reliability of Red Hat Virtualization by removing single points of failure and implementing high-availability features.

Comprehensive review

- Demonstrate skills learned in this course by installing and configuring Red Hat Virtualization, using it to create and manage virtual machines, and by backing up and updating components of Red Hat Virtualization.

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