RH318: Red Hat Enterprise Virtualization

Red Hat Enterprise Virtualization (RH318) is a 4-day extensive hands-on training course that explores the virtualization features of Red Hat Enterprise Linux with the advanced Red Hat Enterprise Virtualization platform. Students acquire the skills and knowledge to deploy and centrally manage virtual servers and virtual desktops in the enterprise. Upon completion of RH318, students will have the skills and knowledge to effectively create, deploy, manage, and migrate Linux and Microsoft Windows virtual machines hosted on either RHEV Hypervisor or Red Hat Enterprise Linux servers dedicated nodes using RHEV Manager.

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AUDIENCE

This is course is intended for: Experienced Linux system administrators responsible for managing enterprise servers who are interested in learning how to manage large numbers of servers or virtual machines using Red Hat Enterprise Virtualization.

PREREQUISITES

» Students should have either Red Hat Certified Technician (RHCT), Red Hat Certified System Administrator (RHCSA), or maintain the equivalent experience with Linux.

» Students should also have system administration experience on Microsoft Windows operating systems is beneficial, but is not necessary for this course

WHAT YOU WILL LEARN

» Red Hat Enterprise Linux Virtualization with KVM overview

» Advanced Red Hat Enterprise Linux Virtualization with KVM

» Overview of RHEV platform

» Creating and configuring: Data Centers, Host Clusters and RHEV-M

» Installing and upgrading RHEV-H

» Configure Data, ISO and Export storage domains using NFS and iSCSI

» Create and manage Virtual Servers and Virtual Desktops

» Create & manage Snapshots & Templates

» Create & manage users & Desktop Pools

» Exporting/importing virtual machines

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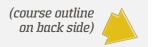
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• 4-day course
• Prep course for exam EX318

QUESTIONS?
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(course outline on back side)

COURSE OUTLINE

RH318: Red Hat Enterprise Virtualization

1. Introduction to Red Hat Enterprise Virtualization Platform

- » Red Hat Enterprise Linux Virtualization
- » Introduction to KVM
- » VirtIO drivers
- » libvirt
- » Virtual machine management with virsh

2. Advanced RHEL Virtualization

- » Managing virtual machines with RHN
- » Defining VMs with libvirt XML
- » Custom KVM network configuration
- » Virtual Machine Migration
- » Shared Storage
- » iSCSI: Internet SCSI
- » Acessing disk images from the host OS

3. Red Hat Enterprise Virtualization

- » RHEV for Servers architecture overview
- » Red Hat Enterprise Virtualization Manager overview
- » Red Hat Enterprise Virtualization Hypervisor overview
- » Preparing a Windows Server for RHEV-M installation

4. RHEV Manager

- » Installing RHEV Manager
- » The RHEV-M database
- » Accessing the RHEV-M Admin Portal

5. RHEV Hypervisor

- » Introduction to RHEV-H
- » RHEV-H deployment modes
- » Installing RHEV-H
- » Automated RHEV-H installation
- » RHEV-H reconfiguration
- » Upgrading RHEV-H
- » Troubleshooting RHEV-H

6. RHEV Data Center

- » Data Center overview
- » Host
- » Storage Domains
- » Clusters
- » System Scheduler
- » Logical networks
- » Virtual machines
- » Creating a New Data Center
- » Creating a New Cluster
- » Configuring storage

7. RHEV for Servers

- » Creating virtual servers
- » Installing virtual servers
- » Paravirtualized drivers for Windows
- » PXE Installation and RHN/Cobbler
- » Virtual Machine Migration
- » High Availability for Guests
- » RHN Entitlements and RHEV VMs

8. RHEV for Desktops

- » RHEV for Desktops architecture
- » SPICE
- » Creating virtual Desktops
- » Installing Windows network VirtIO drivers

9. Snapshots and Templates

- » Image formats
- » Image management
- » Creating VM snapshots
- » Creating templates
- » Sealing a Windows template with Sysprep

10. Desktop Pools, Users and Portal

- » Creating and managing Desktop Pools
- » Managing users
- » Accessing the User Portal
- » Accessing Virtual Desktops

11. Advanced RHEV

- » Using Export Storage domains
- » Converting Virtual Machines with virt-v2v
- » Importing converted Virtual Machines
- » Using the Search Bar
- » Using Tags
- » Using the Monitoring Tools
- » Using Log Collector

12. RHEV-Managed RHEL Hosts

- » Managed Red Hat Enterprise Linux hosts
- » RHEV software for RHEL nodes
- » Registering a RHEL node with RHEV
- » Troubleshooting registration
- » Performance tuning for RHEV