

Linux Pathshala

Red Hat Enterprise Virtualization (RH318)

Course Outline

Documents Conventions

Notes and Warnings

Introduction

Red Hat Enterprise Virtualization

Orientation to the Classroom Environment

Internationalization

1. Red Hat Enterprise Virtualization Overview

Virtualization in Linux

Quiz: Virtualization in

Linux RHEV Architecture

Quiz: RHEV Architecture

Lab: Preparing the Classroom

Environment

Summary

2. Installing, Configuring and Testing RHEV Manager

Installing, and Testing RHEV Manager

Practice: Installing and Configuring RHEV Manager

Managing Users, Roles and Permissions

Practice: Managing Users, Roles

and Permissions

Troubleshooting RHEV Manager

Practice: Updating RHEV Configuration

Values with RHEV Configuration Tool

Lab: Installing, Configuring and

Testing RHEV Manager

Summary

3. Installing and Configuring RHEV Hypervisor Hosts

Installing RHEV Hypervisor

Practice: Installing RHEV Hypervisor

Automating RHEV Hypervisor

Installation

Quiz: Automating RHEV

Hypervisor Installation

Upgrading RHEV Hypervisor

Practice: Upgrading RHEV Hypervisor

Troubleshooting RHEV Hypervisor

Practice: Troubleshooting RHEV

Hypervisor

Lab: Installing and Configuring RHEV

Hypervisor Hosts

Summary

4. Creating RHEV Data Centers and Clusters

RHEV Resources

Quiz: RHEV Resources

Creating Datacenters Practice:

Creating Datacenters Creating

Clusters

Practice: Creating Clusters

Lab: Creating RHEV Data Centers and

Clusters

Summary



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5. Creating and Maintaining RHEV

Storage Creating Storage Domains

Practice: Creating a Data Storage

Domains

Integrating Storage with OpenStack

Quiz: Integrating Storage with

OpenStack

Lab: Creating and Maintaining RHEV

Storage

Summary

6. Creating RHEV Logical Networks

Creating Logical Networks Practice:

Creating Logical Networks Integrating

Networking with OpenStack

Quiz: Integrating Networking with

OpenStack

Lab: Creating RHEV Logical

Networks Summary

7. Deploying RHEV Virtual Machines

Installing a New Virtual Server

Practice: Installing a Red Hat Enterprise

Linux Guest

Managing Virtual Machines

Practice: Managing Virtual Machines

Installing Paravirtualized Drivers

and Guest Agents

Quiz: Installing Paravirtualized

Drivers and Guest Agents

Lab: Deploying RHEV Virtual Machines

Summary

8. Managing VM Snapshots and Images

Creating and Using Image Snapshots

Practice: Creating and Using Image

Snapshots

Sharing and Editing Images

Practice: Sharing and Editing Images

Quiz: Managing VM Snapshots and

Images

Summary

9. Automating VM Deployment

Templating Process

Quiz: Templating Process

Creating RHEL VMs with Template

Images

Practice: Creating RHEL VMs with

Template Images

Windows VMs with Template Images

Quiz: Windows VMs with Template

Images

Creating and Managing Pools Practice:

Creating and Managing Pools

Automating RHEL Deployment with

cloud-init

Practice: Automating RHEL Deployment

with **cloud-init**

Summary

10. Monitoring and Reporting of RHEV

Monitoring RHEV

Practice: Monitoring RHEV with

the search Bar and Tags

Generating Reports

Practice: Generating Reports (Prebuilt)



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Lab: Monitoring and Reporting of RHEV with Ad Hoc Reports

Summary

11. Advanced RHEV Topics

Backing Up and Restoring RHEV

Practice: Backing Up and Restoring

RHEV

Creating a Highly Available RHEV Manager

Quiz: Creating a Highly Available RHEV Manager

Exploring Application Programming Interfaces

Quiz: Exploring Application Programming Interfaces

Summary

12. Installing and Configuring RHEL Hosts

Converting RHEL to Be a RHEV Hosts

Practice: Converting RHEL to Be a RHEV

Hosts

Quiz: Installing and Configuring RHEL

Hosts

Summary

13. Migrating VMs and Configuring High Availability

Migrating a Virtual Machine

Practice: Migrating a Virtual Machine

Automating Migration

Practice: Moving Host into Maintenance

Mode

Configuring High Availability Practice:

Configuring High Availability

Quiz: Migrating VMs and Configuring

High Availability

Summary

14. Comprehensive Review

Comprehensive Review

Comprehensive Review: Installing

Comprehensive Review:

Troubleshooting

Comprehensive Review:

Management Summary