

## Course 615: Virtualization on Red Hat Linux (3 Days)

### Course Description...

This advanced course is designed for individuals desiring a detailed knowledge of OS virtualization on Linux. The first portion of this course details the concept of virtualization, giving taxonomy of the different types of virtualization, contrasts virtualization with emulation, and develops a set of criteria for evaluating different OS virtualization systems. The remainder of the course explores, tests, evaluates, and contrasts the different OS virtualization systems available on Linux. As the course progresses, attendees complete the evaluation chart developed in the first chapter. This intensive hands-on class emphasizes *learning by doing!*

### Suggested Prerequisites...

To receive the maximum benefit from this course requires a thorough understanding of Linux administration as provided by ROI courses 603, Red Hat Linux Workstation, and 604, Red Hat Linux Server.

### Who should attend...

Individuals desiring a detailed knowledge of OS virtualization on Linux.

### Learning Objectives...

- Understand the concept of virtualization
- Acquire criteria used for evaluating OS virtualization on Linux
- Be able to install, test, and evaluate virtualization systems on Linux

**See next page for a detailed course outline...**



# Course Outline...

## Introduction and Overview

Course Objectives

### Unit 1 – Virtualization Overview

- Definition and characteristics of virtualization
- A taxonomy of virtualization
- Criteria for evaluating OS virtualization

### Unit 2 – Xen Virtualization

- The design of xen
- Installing and configuring xen
- Installing and testing a xen image
- Creating a xen image
- Evaluating xen against OS virtualization criteria

### Unit 3 – Kernel-based Virtual Machine (KVM) Virtualization

- The design of KVM
- Installing and configuring KVM
- Installing and testing a KVM image
- Creating a KVM image
- Evaluating KVM against OS virtualization criteria

### Unit 4 – VirtualBox Virtualization

- The design of VirtualBox
- Installing and configuring VirtualBox
- Installing and testing a VirtualBox image
- Creating a VirtualBox image
- Evaluating VirtualBox against OS virtualization criteria

### Unit 5 – VMware Virtualization

- The design of VMware
- Installing and configuring VMware
- Installing and testing a VMware image
- Creating a VMware image
- Evaluating VMware against OS virtualization criteria

### Unit 6 – Conclusions

- Class discussion of different OS virtualization systems on Linux

*Please contact your ROI representative to discuss course customization!!!*