VMware ESX 4 and vCenter 4 Overview

Course Summary

Description

This course provides students with an overview of VMWare ESX 4 and vCenter 4 software that is used to consolidate physical servers in high-performance environments.

Objectives
At the end of this course, students will be able to:

- Identify the components of VMWare ESX 4 and vCenter 4
- Describe the technologies involved in the installation and configuration of virtual machines
- Accurately assess where virtualization fits within their organization's technical infrastructure
- Describe many of the features of VMware
- Identify the industries best practices with respect to virtualization

Topics

- VMware vSphere 4 Overview
- ESX 4 and vCenter 4
- Working with Virtual Machines
- Disaster Recovery
- Best Practices

Audience

This course is designed for senior management staff that would like to learn more about the various implementations of VMware along with the introduction of the many features of this product.

Prerequisites

It is recommended that students are part of the senior management staff who are considering virtualization for their organization using VMware. It is also intended for those individuals who will have little or no hands-on responsibility as it relates to the installation, configuration, and on-going support of the VMware product.

Duration

One day

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Course Outline

I. Virtual Infrastructure Overview
- A. Virtualization in the real world
- B. Real-world scenarios
- C. Reasons for moving from a physical network to a virtual one utilizing VMware

II. ESX Server and VCenter
- A. Components needed to complete a successful installation of ESX 4 and vCenter 4
- B. Hardware and software requirements for various configuration scenarios to meet the resource demands

III. Working with Virtual Machines
- A. Creating guest systems
- B. Manage storage
- C. Use vCenter and network multiple virtual machines together
- D. Vast flexibility of VMware's ability to connect to and manipulate storage devices

IV. Disaster Recovery
- A. How to be prepared for a disaster in a virtual environment
- B. Learning how to correct issues associated with the virtual environment
- C. Differences in preparing for a disaster in the traditional network
- D. Benefits a virtual environment offers over the traditional network

V. Best Practices
- A. Best methods and practices to use when deploying virtual machines
- B. Sizing and deployment guidelines

VI. Total Cost of Ownership and Return on Investment
- A. Understand why virtualization with VMware is the best solution
- B. Benefits of using VMware for all of your virtualization needs
- C. Learn the true cost of ownership and return on investment as demonstrated by existing enterprise organization utilizing VMware
- D. Security

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