CXS-200-1 Implementing Citrix XenServer Enterprise Edition 5.0

Course Summary

Description

This course prepares learners to deploy and manage XenServer Enterprise Edition 5.0 and XenCenter. Through hands-on labs, learners will gain experience in installing and configuring a virtualization server and connecting to the server with XenCenter; creating virtual machines and managing virtual machine life-cycle operations; and creating a XenServer resource pool and connecting to remote storage. In addition, learners will explore advanced XenServer capabilities such as XenMotion and automatic virtual machine placement

Objectives

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

- Describe the difference between Xen hypervisor and other virtualization methods
- Describe the difference between Xen open source project and XenServer commercial products
- Install XenServer Enterprise Edition 5.0 and configure CPU, network and storage resources
- Install XenCenter
- Create virtual machines and templates
- Identify and explain the uses for XenConvert
- Manage virtual machine resources and life cycle operations
- Perform searches to sort searching and grouping in XenCenter and view VM performance statistics
- Configure local and remote storage
- Configure resource pools and move virtual machines from one server to another
- Identify the requirements for high availability and disaster recovery
- Identify the purpose and functionality of the xe CLI and perform basic commands
- Identify and view tools for upgrading and troubleshooting XenServer Enterprise Edition 5.0

Topics

- Virtualization Overview
- Product Overview
- Product Installation
- Windows Virtual Machines
- Linux Virtual Machines
- Templates and Life-cycle Operations
- XenConvert
- Resource Management
- Networking
- Storage
- Remote Storage
- Resource Pools
- Business Continuity
- Command Line Interface
- Troubleshooting

Audience

This course is designed for IT professionals, Architects, Systems Engineers and Citrix Partner Network members.

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Prerequisites

Prior to taking this course, learners should possess the following knowledge and experience:

- A basic knowledge of the purpose and goals of virtualization technology
- An understanding of computing architecture, including network and storage devices, device drivers and operating systems
- Basic experience installing and administering Windows Server 2003 or Windows Server 2008
- Basic experience installing and administering Linux variants
- Intermediate knowledge of network devices and site architecture, including configuring vLANs
- Basic knowledge of storage terminology and technologies, including partitions, SANs, LUNs, iSCSI, and NFS and CIFS file shares

Duration

Two days

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Course Outline

I. Virtualization Overview
- A. Benefits
- B. Types of virtualization

II. Product Overview
- A. Product architecture
- B. Architecture features

III. Product Installation
- A. Hardware requirements
- B. Installing XenServer
- C. Installing XenCenter

IV. Windows Virtual Machines
- A. Creating ISO libraries
- B. Architecture
- C. Creating Windows VMs

V. Linux Virtual Machines
- A. Architecture
- B. Creating Linux VMs

VI. Templates and Life-cycle Operations
- A. VM templates
- B. Life-cycle 0perations

VII. XenConvert

VIII. Resource Management
- A. Offline and online adjustment
- B. Enhanced resource controls
- C. Alerts and performance statistics
- D. Networking
- E. Physical networking
- F. Virtual networking
- G. NIC bonds

IX. Storage
- A. Physical storage
- B. Virtual storage

X. Remote Storage
- A. Fibre Channel
- B. iSCSI
- C. NFS
- D. NetApp
- E. Multipathing

XI. Resource Pools
- A. Resource pool architecture
- B. Working with pools
- C. Configuring resource pools
- D. Automatic VM placement
- E. XenMotion live migration

XII. Business Continuity
- A. High availability
- B. Disaster recovery

XIII. Command Line Interface
- A. Accessing and understanding the xe CLI
- B. Using basic commands to create objects and perform maintenance

XIV. Troubleshooting
- A. Viewing event logs and reports
- B. Identifying tools
- C. Upgrades and patches

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