
Duration: 2 days

Overview

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

Prerequisites

Prior to taking this course, Citrix recommends that learners possess the following knowledge and experience:

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

Delegates will learn how to

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

Course Outline

Virtualization Overview

- Benefits
- Types of virtualization

Product Overview

- Product architecture
- Architecture features

Product Installation

- Hardware requirements
- Installing XenServer
- Installing XenCenter

Windows Virtual Machines

- Creating ISO libraries
- Architecture
- Creating Windows VMs

Linux Virtual Machines

- Architecture
- Creating Linux VMs

Templates and Life-cycle Operations

- VM templates
- Life-cycle Operations

XenConvert

Resource Management

- Offline and online adjustment
- Enhanced resource controls
- Alerts and performance statistics

Networking

- Physical networking
- Virtual networking
- NIC bonds

Storage

- Physical storage
- Virtual storage

Remote Storage

- Fibre Channel
- iSCSI
- NFS
- NetApp
- Multipathing

Resource Pools

- Resource pool architecture
- Working with pools
- Configuring resource pools
- Automatic VM placement
- XenMotion live migration

Business Continuity

- High availability
- Disaster recovery

Command Line Interface

- Accessing and understanding the xe CLI
- Using basic commands to create objects and perform maintenance

Troubleshooting

- Viewing event logs and reports
- Identifying tools
- Upgrades and patches