

Citrix

CXS-300: Citrix XenServer 6.5 SP1 Administration

Learn the skills necessary to configure and administer a XenServer 6.5 SP1 environment in this 5-day course.

\$5,000.00

- 5 Days

Upcoming Dates

Course Description

The Citrix XenServer 6.5 SP1 Administration course CXS-300 provides the skills necessary to effectively design, deploy, manage and support Citrix XenServer 6.5 SP1. Students with limited or no XenServer experience will gain an understanding of what is required to implement and maintain the components of a XenServer enterprise solution.

Students will have access to hands-on exercises within a virtual lab environment to configure a complete enterprise solution ? covering everything from installation to advanced troubleshooting.

Course Outline

Module 1: XenServer Architecture

- Describing the XenServer virtualization platform
- Product editions and entitlements
- XenServer architecture
- XenServer key components

Module 2: Managing Virtual Machines

- Virtualization techniques
- XenTools
- Creating virtual machines
- Managing virtual machines
- Understanding vApps
- Managing snapshots

Module 3: Installing XenServer

- Hardware requirements
- Licensing
- Available installation methods
- XenServer supplemental packs

Module 4: Managing a XenServer Environment

- Deploying hotfixes
- Upgrading XenServer

- Upgrading XenTools
- Monitoring and alerting
- Pool metadata backups

Module 5: Resource Pools

- Understanding resource pools
- XenServer pool master
- Pool master election
- Workload balancing

Module 6: Networking

- XenServer networking architecture
- Virtual network types
- Network interface bonds
- XenServer physical connectivity

Module 7: Storage

- XenServer storage architecture
- Understanding thick and thin provisioning
- Storage locations
- File based and block based storage
- Storage multipathing
- XenServer Intellicache
- XenServer in-memory read caching

Module 8: High Availability

- Purpose of high availability
- High availability recommendations
- Detecting a host failure
- High availability recovery process

Module 9: Security

- Integrating with Active Directory
- Understanding role-based access
- Minimizing the attack surface
- Certificates and SSL with XenServer

Module 10: Sizing and Optimizations

- Dom0 sizing
- Dom0 in-memory reach caching
- Virtual CPU optimization
- Device pass-through
- Dynamic memory control
- Resource scheduling
- Network QoS
- Disk prioritization

Module 11: Troubleshooting

- XenServer maintenance mode
- Host logs and event notifications
- Xsconsole
- XenTop
- Command line and PowerShell commands
- Using Citrix Insight Services

- Network tracing

Audience

This course is designed for IT professionals, systems engineers, administrators, and Citrix partners, who need to know how to design, deploy, manage, and support a XenServer enterprise solution. XenApp/XenDesktop administrators who want to learn how to optimize XenDesktop/XenApp performance or how to troubleshoot issues as well as datacenter administrators who are using XenServer for running many different types of virtual machines will benefit from this class.

Prerequisites

Citrix recommends students prepare for this course by gaining a basic understanding of the following concepts and technologies:

- A basic overall knowledge of virtualization technology
- An understanding of computing architecture, including network and storage devices, device drivers and operating systems
- Basic knowledge of network devices and site architecture, including configuring VLANs
- Basic knowledge of storage terminology and technologies, including partitions, SANs, LUNs, iSCSI, NFS, and CIFS file shares

What You Will Learn

In this course, students will learn the skills necessary to configure and administer a XenServer 6.5 SP1 environment, including topics such as:

- Understanding XenServer architecture, features, editions and entitlements
- Creating and Managing Virtual Machines
- Installing and Configuring XenServer
- Managing the XenServer Environment
- Configuring Resource Pools
- Configuring High Availability / Disaster Recovery
- Creating and Managing Networks
- Configuring Storage
- Configuring Security
- Understanding Sizing and Design Impact
- Troubleshooting the XenServer Environment