

CXS-301 Citrix XenServer 7.1 LTSR Administration

Overview

Build a new skill set around Citrix XenServer 7.x focusing on the 7.1 Long Term Services Release, which delivers optimized server virtualization for all datacenter workloads. In this course, students will learn how to install, manage, secure, size and troubleshoot an enterprise XenServer implementation. The course will walk students through configuration and administration of the environment, from architecture and virtual machines to resource pools, storage and networking. Key topics will include capabilities such as virtual CPU optimization, VM management, and high availability/disaster recovery, and features such as Intellicache and XenMotion.

Target Audience

This course is designed for IT professionals with little or no XenServer experience.

Course Objectives

- Understand XenServer architecture, features, and leading practices
- Configure and manage virtual machines
- Install, configure, and manage XenServer and the XenServer environment
- Configure Resource Pools and high availability in the XenServer environment
- Configure network, storage, and security for XenServer
- Troubleshoot the XenServer environment

Course Outline

1 - XenServer Architecture

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

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Schedule

Class Length: 5 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE"
ILT = "Instructor-Led-Training"

This course is not currently available on the public schedule. Please contact us using the information in the footer below to inquire about future dates or to schedule a private class.

2 - Managing Virtual Machines

Virtualization techniques
XenTools
Creating virtual machines
Managing virtual machines
Understanding vApps
Managing snapshot

3 - Installing XenServer

Hardware requirements
Licensing
Available installation methods
XenServer supplemental packs

4 - Managing a XenServer Environment

Deploying hotfixes
Upgrading XenServer
Upgrading XenTools
Monitoring and alerting
Pool metadata backups

5 - Resource Pools

Understanding resource pools
XenServer pool master
Pool master election
Workload balancing

6 - Networking

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

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
XenApp and XenDesktop Provisioning enhancements

8 - High Availability

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

9 - Security

- Integrating with Active Directory
- Understanding role-based access
- Minimizing the attack surface
- Certificates and SSL with XenServer
- XenServer Hypervisor Introspection Direct Inspect API

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
- XenServer vGPU and GPU pass-through

11 - Troubleshooting

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