

# CXS-301: Citrix XenServer 7.1 LTSR Administration

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## Course Details

### Course Outline

#### 1. XenServer Architecture

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

#### 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