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Citrix XenServer: Pool to Network
Citrix XenServer: VM to Network
Citrix XenServer: VM to Storage
Component Mapping
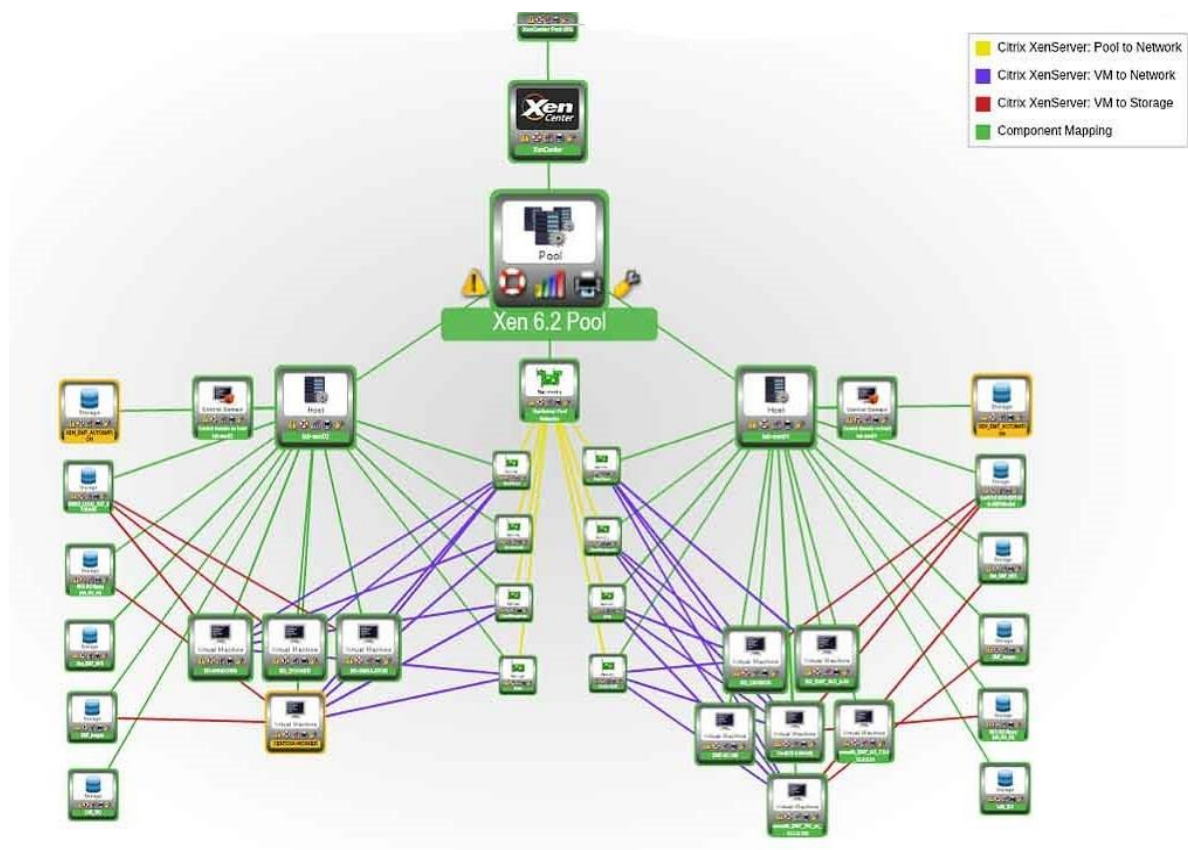
## Citrix XenServer 7

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# Citrix XenServer 7.1 LTSR Administration

## ✦ Course 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 five-day course, you'll learn how to install, manage, secure, size and troubleshoot an enterprise XenServer implementation. The course will walk you 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. This course is designed for IT professionals with little or no XenServer experience.

## ✦ 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 proces

### 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

**Prerequisites:**
- ➢ VMware vSphere
- ➢ Basics of Networking
- ➢ This course requires little to no previous experience with Citrix XenServer.

**Who Should Attend:**
- ➢ IT Professionals who need to design, deploy, manage, and support Citrix XenServer.
- ➢ Potential students include administrators, engineers, or architects working with Citrix XenServer for both XenApp and XenDesktop workloads as well as general infrastructure use.

**Number of Hours: 40hrs**

**Certification: None (CXS-301)**

**Key Features:**
- ➢ One to One Training

- Online Training
- Fastrack & Normal Track
- Resume Modification
- Mock Interviews
- Video Tutorials
- Materials
- Real Time Projects
- Virtual Live Experience
- Preparing for Certification

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