

CMB-300: Deploy and Manage Citrix XenApp/XenDesktop 7.5 Fast Track Overview

This course provides students an accelerated path to obtain the skills required to successfully deploy and support a complete Citrix hosted application and desktop virtualization solution in a Windows Server 2012 R2 environment.

Throughout this course, students will learn how to configure an environment that includes the following Citrix components: XenServer, XenDesktop, Citrix License Server, MCS, PVS, Personal vDisk, StoreFront, NetScaler (ICA Proxy, Load Balancing, Endpoint Analysis), and Citrix Receiver. Upon course completion, students will be able to build a XenDesktop 7.5 environment from scratch, test the implementation to ensure that all components work as expected, and successfully manage, monitor, and troubleshoot a XenDesktop 7.5 solution.

Who should enroll in this course?

This course is recommended for Architects, Consultants, Engineers, and Administrators. Students will gain hands-on experience installing, configuring, and managing hosted application and desktop virtualization solutions from the ground up. Upon completion of the course, students will have the skills required to successfully deploy and support XenDesktop 7.5 solutions that the majority of Citrix customers implement today.

Preparatory Recommendations

Before taking this course, Citrix recommends that students have:

- An understanding of server, desktop and application virtualization concepts
- Experience with Windows Server 2012 R2, specifically:
 - Active Directory
 - Domains
 - Groups and User Accounts
 - Organizational Units
 - Group Policy Objects
- Experience with Windows 7 and Windows 8.1 user interfaces
- Basic storage knowledge (manage existing storage types, add new storage)
- Basics of Citrix licensing
- Familiarity with at least one hypervisor (XenServer, Hyper-V, or vSphere)
- Basic understanding of the different types of profiles (local, roaming, mandatory)

Key Skills

Upon successful completion of this course, learners are able to:

- Understand the XenDesktop 7.5 architecture, components, and communication
- Set up the hypervisor
- Set up and manage the XenDesktop 7.5 infrastructure
- Create and manage machine catalogs and Delivery Groups
- Configure and manage StoreFront
- Configure and manage policies and end-user profiles
- Manage sessions, sites, and end users with Director
- Manage printing
- Set up and Manage Provisioning Services
- Validate the Implementation
- Set up NetScaler to provide external access to XenDesktop 7.5 resources

Instructional Method

This course is offered as an instructor-led course with demonstrations and the practical application of concepts through hands-on exercises in a live lab environment, as well as simulations.

Course Length

5 days

Certification Preparation

In addition to field experience, this course prepares candidates for the Managing XenDesktop 7 Solutions exam and the Deploying XenDesktop 7 Solutions exam. By passing the Managing Citrix XenDesktop 7 Solutions exam, candidates will gain the new Citrix Certified Associate – Apps and Desktops certification. By passing the Deploying Citrix XenDesktop 7 Solutions exam, candidates will gain the new Citrix Certified Professional– Virtualization certification. Go [here](#) to learn more about the new Citrix Certifications.

Lab Activities

ILT and vILT courses offer lab access during the duration of the course.

Topic Outline

Provided is the topic outline for the Deploy and Manage XenApp and XenDesktop 7.5 Fast Track course:

Module 1: Understanding the XenDesktop 7.5 Architecture

- Understanding the Architecture of a XenDesktop Solution
- XenDesktop Virtualization Technologies
- Infrastructure Components
- Citrix Components
- Designing a XenDesktop Implementation
- Design Document

Module 2: Hypervisor Considerations

- Setting up the Hypervisor
- Installing the Hypervisor
- Installing the Hypervisor Management Console
- Configuring the Hypervisor
- Creating Templates
- Reinforcement Exercise – Creating a Windows 7 Template

Module 3: Infrastructure Considerations

- Setting Up the Infrastructure Components
- Setting Up the Infrastructure Components
- Setting Up the Domain Controller
- Setting Up the Dynamic Host Configuration Protocol
- Setting Up a Certificate Authority
- Setting Up the File Server
- Setting Up SQL Server 2012
- Setting Up SQL Server Mirroring
- Reinforcement Exercise – Redirecting Additional Folders

Module 4: Setting Up Citrix Components

- Setting Up Citrix Components
- Setting Up the Citrix License Server
- Setting Up the Delivery Controller
- Setting Up a Second Controller

- Setting Up the Citrix Universal Print Server
- Setting Up StoreFront
- Setting Up a Second StoreFront Server
- Setting Up Receiver
- Reinforcement Exercise – Using the Receiver for Web Site

Module 5: Setting Up XenDesktop Resources

- Setting Up XenDesktop Resources
- Preparing the Master Virtual Machine
- Setting Up a Server OS Master Image
- Setting Up a Desktop OS Master Image
- Creating a Machine Catalog
- Creating a Delivery Group
- Reinforcement Exercise – Adding Machines and Delivery Groups

Module 6: Managing Policies and Profiles

- Setting Up Policies
- Policy Precedence (Studio vs. Group Policy Objects)
- Creating Policies Using Studio
- Creating Policies Using Group Policy
- Obtaining the Resultant Set of Policy Using Group Policy Objects
- Managing End-User Profiles
- Reinforcement Exercise 1: Working with Policies
- Reinforcement Exercise 2: Working with Profiles

Module 7: Managing Printing

- Managing Printing
- Default Printing Behavior
- Configuring Client Printing
- Managing Printer Drivers
- Optimizing Printing Performance
- Setting Up and Managing the Universal Print Server
- Reinforcement Exercise: Managing Printing

Module 8: Setting Up Provisioning Services

- Setting Up Provisioning Services
- Provisioning Services Architecture
- Setting Up a Provisioning Services Server
- Installing the Provisioning Services Console
- Configuring Boot from Network
- Setting Up a Second Provisioning Services Server
- Configuring the BootStrap File for High Availability
- Configuring the Master Target Device
- Creating the vDisk
- Assigning a vDisk to a Target Device
- Creating the Machine Catalog
- Creating the Delivery Group
- Reinforcement Exercise – Creating BDM Target Devices

Module 9: Managing and Monitoring Sessions, Sites, and End Users with Director

- Director Overview
- Monitoring within the Director Dashboard
- Monitoring and Managing End-User Sessions
- Reinforcement Exercise: Using Director

Module 10: Setting Up NetScaler

- Setting Up NetScaler
- Performing the Initial NetScaler Configuration
- Configuring NTP
- Configuring NetScaler High Availability
- Setting Up DNS
- Creating Certificates for NetScaler
- Load Balancing StoreFront Servers
- Configuring NetScaler for Remote Access
- Redirecting HTTP Requests for StoreFront
- Modifying StoreFront to Integrate with NetScaler
- Configuring ICA Proxy
- Configuring Authentication Policies
- Configuring NetScaler for Email-Based Account Discovery
- Reinforcement Exercise – Scanning an Endpoint for a File