



CXA-206-1I Citrix XenApp 6.5 Basic Administration

BUILDING TRAINING SOLUTIONS
FOR THE IT WORLD

Days: 5
Format: Instructor-Led
Class Code: CXA-206-1I

Recommended Course Sequence

Knowledge of prerequisites
noted below.

*Course content is subject to change
without notice.*

Course Description:

Citrix XenApp 6.5 Basic Administration training course provides the foundation necessary for administrators to effectively centralize and manage applications in the datacenter and instantly deliver them as a service to users anywhere. Learners will receive training for installing and configuring Citrix XenApp 6.5 for Windows Server 2008 R2, Citrix Receiver and plug-ins, as well as for using administrative consoles and tools to configure resources, policies, server and farm settings, printers, virtualized applications and more.

Target Student:

This course is intended for IT professionals, such as server, network and systems administrators familiar with Microsoft Windows environments, including Windows 2008 R2 administrators interested in becoming a XenApp administrator. Existing XenApp administrators or systems engineers interested in updating their XenApp skills, receiving Citrix authorized training on XenApp 6.5, or achieving certification for XenApp 6.5 are ideal candidates. Systems engineers, sales engineers, analysts, consultants and architects also are also appropriate candidates for this course.

Prerequisites:

Before taking this course, Citrix recommends that learners have the following:

- Familiarity with Microsoft Windows Server 2008 R2
- Experience with Microsoft SQL Server or enterprise database servers
- Experience with Active Directory and Group Policy
- Basic understanding of Microsoft Remote Desktop Services
- Familiarity with application virtualization technologies, such as Citrix application streaming or Microsoft App-V
- Basic understanding of Windows Server networking concepts, such as DNS, IIS, load balancing, and file and printing services
- Exposure to basic system administration concepts, including logging, software upgrade procedures and high availability operations
- Familiarity with server monitoring tools
- Basic understanding of VPN concepts, including SSL encryption and certificates

At Course Completion:

Topics covered in this course include:

- Introducing XenApp
- Licensing XenApp
- Installing XenApp
- Administrative Configuration
- Installing and Configuring Web Interface
- Delivering Applications and Content
- Streaming Applications
- Configuring Policies

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- Configuring Load Management
- Optimizing the User Experience
- Configuring Self Service Applications
- Configuring Printing
- XenApp Security
- Monitoring XenApp
- Additional Components

Course Outline

Module 1: Introducing Basic Administration for Citrix XenApp 6

XenApp Editions
XenApp Features
XenApp Architecture
<ul style="list-style-type: none">■ XenApp Components■ Single and Multiple Farm Environments■ XenApp Servers: Session host-only and Controllers■ Data Store■ Data Store Updates and the Local Host Cache■ Independent Management Architecture■ Data Collectors■ Data Collector Election■ Zones■ Additional XenApp Components
AppCenter
Test Your Knowledge

Module 2: Licensing XenApp

Overview
To License XenApp
<ul style="list-style-type: none">■ Licensing Communication■ License Communication Process■ License Types■ Citrix License Server■ Microsoft Remote Desktop Services■ Remote Desktop Licensing■ Additional Licensing Considerations
License Administration Console
<ul style="list-style-type: none">■ Port Configuration■ Delegated Administrators in the License Administration Console
Installing Licensing
<ul style="list-style-type: none">■ Manual Installation and Configuration■ Removing Licensing■ License Server Considerations

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License File Management
<ul style="list-style-type: none">■ Obtaining License Files■ To Add License Files■ Subscription Advantage
High Availability Considerations
<ul style="list-style-type: none">■ Additional License Server Processes■ License Server Clustering
Test Your Knowledge

Module 3: Installing XenApp

Overview
XenApp Server Role Manager
Hardware Requirements
Software Requirements
Installation Decisions
Server Configuration Tool
Dynamic Data Center Provisioning
Role-based Uninstall
XenApp Configuration Options
<ul style="list-style-type: none">■ Which Farm or Zones Will Be Used in the Environment?■ Which Server Will Be Used as the License Server?■ Which Database Engine Will Be Used for the Data Store Database?■ Will Shadowing Be Enabled?■ On Which Port Will the Citrix XML Service Run?■ When Will Users Be Added to the Local Remote Desktop Users Group?■ Will Pass-through Authentication Be Used in the Environment?■ Will Information in the Data Store and Configuration Logging Databases be Protected with IMA Encryption?
Web Interface Installation Decisions
Test Your Knowledge

Module 4: Configuring XenApp Administration

Overview
Worker Groups
<ul style="list-style-type: none">■ Managing Worker Groups
Administrator Privilege Levels
<ul style="list-style-type: none">■ Creating Administrator Accounts■ Configuring Administrator Permissions■ Configuring Folder Permissions■ Delegating Administration
Configuration Logging
<ul style="list-style-type: none">■ Creating the Configuration Logging Database■ Configuration Logging Database Settings

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<ul style="list-style-type: none">■ Enabling Configuration Logging
Test Your Knowledge

Module 5: Installing and Configuring Web Interface

Overview
Web Interface Ports
<ul style="list-style-type: none">■ Web Interface Communication Process
Web Interface Installation
<ul style="list-style-type: none">■ Installing the Web Interface
Site Creation
<ul style="list-style-type: none">■ Creating a Web Interface Site■ Site Creation Considerations■ XenApp Web Site Configuration Options■ XenApp Services Site Configuration
Web Interface Site Modification
<ul style="list-style-type: none">■ Modifying the Web Interface Configuration File■ Using the Web Interface Management Console
Specifying Citrix Plug-in Backup URLs
Site Appearance
<ul style="list-style-type: none">■ Site Customization Options■ Session Preferences■ Session Options■ User Options
Workspace Control
<ul style="list-style-type: none">■ Workspace Control Functionality■ Workspace Control Configuration Options■ Workspace Control User Customization■ Configuring Workspace Control■ Session Termination
Citrix Plug-ins and Web Interface
<ul style="list-style-type: none">■ Plug-in Deployment Options■ Automatically Detecting Plug-ins■ Client Detection
Authentication Configuration
<ul style="list-style-type: none">■ Authentication Options■ Generic RADIUS Support■ Explicit Authentication■ Pass-through Authentication■ Smart Card Authentication■ Citrix XML Service Trust Relationships
Secure Access Configuration
<ul style="list-style-type: none">■ Access Methods■ Network Address Translation■ Network Address Translation Access Types
Server Configuration
<ul style="list-style-type: none">■ Configuring Multiple Farms■ Adding Farms

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<ul style="list-style-type: none">■ Configuring Load Balancing■ Enabling Fault Tolerance■ Specifying the XML Communication Port■ Ticket Expiration Settings
Web Interface Site Removal
Troubleshooting Web Interface Issues
Test Your Knowledge

Module 6: Delivering Applications and Content

Overview
Published Resources
<ul style="list-style-type: none">■ Published Resource Types■ Resource Publishing Phases■ Resource Name and Location■ Server Assignment■ Configured or Anonymous Accounts■ Users and Groups■ Resource Publishing Settings
VM Hosted Apps
<ul style="list-style-type: none">■ Components of VM Hosted Apps
Organizing Published Resources for Users
Advanced Published Resource Settings
<ul style="list-style-type: none">■ Access Control■ Content Redirection■ Implementing Resource Limits and Client Options■ Configuring Resource Appearance
Published Resource Configuration
<ul style="list-style-type: none">■ Session Pre-Launch■ Managing Connections to Resources■ Disabling or Hiding a Published Resource
Troubleshooting Application Delivery Issues
Test Your Knowledge

Module 7: Streaming Applications

Overview
Application Streaming
<ul style="list-style-type: none">■ Application Streaming Benefits■ Application Streaming Components■ Application Streaming Communication Process■ Streaming App-V Packages
Citrix Offline Plug-in
<ul style="list-style-type: none">■ Citrix Offline Plug-in Cache■ Citrix Offline Plug-in Installation
Citrix Streaming Profiler
<ul style="list-style-type: none">■ Profiling Process■ Installing the Citrix Streaming Profiler

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<ul style="list-style-type: none">■ Creating a Profile■ Profile Security Setting■ Targets■ Inter-Isolation Communication■ Profile Preference Settings■ Profile System Requirements■ Profile Installation Types■ Profile Properties■ Known Limits for Profiling Applications■ Target Properties■ Upgrading an Application in a Target
Application Delivery Methods
The Use Web Delivery Method
To Stream to Servers
Publishing a Streamed Application
<ul style="list-style-type: none">■ Specifying an Alternate Profile for a Published Application■ Enabling the Least-Privileged User Account
Configuring Sites for Streaming Applications
<ul style="list-style-type: none">■ Support for Both Remote and Streaming Applications
Offline Access Management
<ul style="list-style-type: none">■ Indirect Membership to the Offline Access List■ Providing Offline Access■ Offline Access Period■ Renewing Offline Access Period■ Application Caching■ Pre-Deployment of Streaming Applications
Troubleshooting Streaming Issues
Test Your Knowledge

Module 8: Configuring Policies

Overview
Group Policy Integration
<ul style="list-style-type: none">■ IMA-based Group Policies■ Group Policy Extensions■ Group Policy Architecture
Policy Evaluation
<ul style="list-style-type: none">■ Policy Application Process■ Policy Processing and Precedence■ Policy Changes Example■ Policy Precedence Exceptions
Policy Rules
Support for Policy Templates
Policy Filtering
Policy Modeling
Test Your Knowledge

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Module 9: Configuring Load Management

Overview
Load Manager
Load Balancing
■ Load Balancing Process
Load Calculation
■ Load Calculations
Load Evaluator Configuration
■ Creating Custom Load Evaluators
■ Thresholds for Load Management
■ Assigning Load Evaluators to Servers and Applications
Load Balancing Policies
■ Creating Load Balancing Policies
■ Force Application Streaming
Preferential Load Balancing
■ Preferential Load Balancing Example
■ Preferential Load Balancing Considerations
Troubleshooting Load Management Issues
Test Your Knowledge

Module 10: Optimizing the User Experience

Overview
Optimizing Session Performance
■ Enabling Display Settings
HDX Broadcast Session Reliability
■ Enabling HDX Broadcast Session Reliability
HDX Broadcast Session Reliability Considerations
HDX RealTime
■ Enabling HDX RealTime
■ Understanding HDX RealTime Design Considerations
HDX Plug-n-Play
■ Enabling HDX Plug-n-Play
■ Understanding HDX Plug-n-Play Design Considerations
HDX MediaStream Windows Media Redirection
HDX MediaStream Flash Redirection
HDX 3D Image Acceleration
■ Enabling HDX 3D Image Acceleration
HDX 3D Progressive Display
■ Enabling HDX 3D Progressive Display
User Profiles
■ Differentiating User Profile Types
■ Redirecting User Data
■ Managing User Profiles
■ Enabling Profile Management

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<ul style="list-style-type: none">■ Understanding the Profile Management Logon Process
Troubleshooting User Experience Issues
Test Your Knowledge

Module 11: Configuring Self-Service Applications

Overview
Self-Service Applications Technologies
Citrix Receiver
<ul style="list-style-type: none">■ Citrix Receiver for Windows■ Citrix Receiver for Macintosh
Citrix Merchandising Server
<ul style="list-style-type: none">■ Citrix Merchandising Server Architecture
Plug-ins
<ul style="list-style-type: none">■ Supported Plug-ins, Clients and Receivers■ Plug-in Delivery■ Client for Java■ Installation Considerations
Troubleshooting Self-Service Application Issues
Test Your Knowledge

Module 12: Configuring Printing

Overview
Printing Concepts
<ul style="list-style-type: none">■ Printing Definitions■ Printer Types■ Printing Security
Default Printing Behavior
<ul style="list-style-type: none">■ Altering the Default Printing Behavior
Printer Provisioning
<ul style="list-style-type: none">■ User Self-Provisioning■ Printer Auto-Creation
Printing Pathways
<ul style="list-style-type: none">■ Network Printing Pathway■ Client Printing Pathway■ Printing Pathway Demonstration
Printer Drivers
<ul style="list-style-type: none">■ Printer Driver Types
Citrix Universal Printing
<ul style="list-style-type: none">■ Enhanced MetaFile Format■ Print Preview■ Citrix Universal Printer■ Configuring Citrix Universal Printing
Administrator-Assigned Network Printers
<ul style="list-style-type: none">■ Adding a Network Printer

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<ul style="list-style-type: none">■ Editing Network Printer Settings■ Specifying the Default Printer
Workspace Control and Proximity Printing
<ul style="list-style-type: none">■ Configuring Proximity Printing
Printing Preferences
<ul style="list-style-type: none">■ Printing Properties■ Printing Preference Hierarchy■ Configuring Printer Property Retention
Printing Bandwidth
Troubleshooting Printing Issues
Test Your Knowledge

Module 13: Securing XenApp

Overview
XenApp Security Solutions
SecureICA
Citrix SSL Relay
<ul style="list-style-type: none">■ SSL Relay Communication■ Configuring SSL Relay
Access Gateway
<ul style="list-style-type: none">■ Access Gateway Deployment Scenarios■ Access Gateway Communications■ Digital Certificates■ Securing Access to Hosted Applications■ SmartAccess
Web Interface Configuration
<ul style="list-style-type: none">■ Access Methods■ Access Gateway Settings■ Configuring Web Interface for Access Gateway Connections
Security Configuration Best Practices
Troubleshooting Access Gateway with XenApp
Test Your Knowledge

Module 14: Monitoring XenApp

Overview
Health Monitoring and Recovery
Service Monitoring for XenApp
<ul style="list-style-type: none">■ Service Monitoring Components■ Service Monitoring Communication
License Usage Monitoring
<ul style="list-style-type: none">■ Configuring License Alerts■ Viewing License Usage■ Viewing Historical License Data
Workflow Studio Overview

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<ul style="list-style-type: none">■ Workflow Studio Architecture■ Workflow Automation Use Cases
Accessing the Farm using PowerShell
Administering the Farm using Commands
Test Your Knowledge

Module 15: Additional Components

Overview
SmartAuditor
<ul style="list-style-type: none">■ SmartAuditor Components■ Session Recording Process
Single Sign-on
<ul style="list-style-type: none">■ Single Sign-on Components■ Single Sign-on Process
Branch Optimization
<ul style="list-style-type: none">■ Branch Repeater Components■ Branch Optimization Process for the Plug-in
Provisioning Services
<ul style="list-style-type: none">■ Provisioning Services Components
Power and Capacity Management
XenServer
XenServer Components
Test Your Knowledge