



## **Citrix XenApp 5 for Windows Server 2003: Administration**

**Days:** 5  
**Format:** Instructor-Led  
**Class Code** 1259CI  
**Certification Exams:**  
**Certification Track:**

### **Recommended Course Sequence**

Knowledge of prerequisites  
noted below.

*Course content is subject to change  
without notice.*

### **Course Description:**

This course provides the foundation necessary to effectively deploy and administer Citrix Presentation Server 4.5 and XenApp 5.0 for Windows Server 2003 and its components, including Load Manager, Installation Manager, Web Interface, Application Streaming and Secure Gateway.

Learners will receive hands-on training on installing and using the various administrative consoles to configure published resources, policies, individual server and server farm settings, load evaluators, isolation environments, printers, streaming applications and much more

### **Target Student:**

This course is intended for IT professionals, such as server, network, systems and help desk administrators familiar with Microsoft® Windows® environments. Systems engineers, analysts, consultants, and architects are also appropriate candidates for this course.

### **Delivery Method:**

Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

### **Prerequisites:**

It is recommended that learners have experience administering Microsoft Windows Server 2003 environments.

### **At Course Completion:**

Upon successful completion of this course, students will be able to:

- Install XenApp in a Windows Server 2003 environment
- Install and configure Clients
- Publish applications, resources and content
- Configure and manage policies
- Configure ICA connection and session settings
- Configure and manage server and server farm settings
- Configure load evaluators and monitor load using Load Manager
- Deploy applications using Installation Manager
- Deploy applications into an isolation environment
- Configure and manage network and session printing
- Install and configure Web Interface

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- Configure streaming profiles, install the Streaming Client and configure XenApp to stream applications
- Secure access to published resources through ICA encryption, Citrix SSL Relay and Secure Gateway
- Upgrade a Presentation Server 4.5 environment to XenApp 5.0 for Windows Server 2003
- Upgrade and configure the Streaming Profiler
- Upgrade and configure the Presentation Server Client to XenApp Plugin for Hosted Apps
- Upgrade and configure the Streaming Client to XenApp Plugin for Streamed Apps
- Configure the Client Detection Wizard in Web Interface

## Course Outline

<b>Lesson 1: Installing XenApp</b>
<ul style="list-style-type: none"><li>■ Identifying Components of XenApp 5</li><li>■ Features of XenApp 5 Feature Pack 2</li><li>■ Identifying XenApp Management Consoles<ul style="list-style-type: none"><li>■ Installing XenApp</li><li>■ XenApp Installation Decisions</li></ul></li></ul>
<b>Lesson 2: Installing and Configuring Citrix XenApp Plugins</b>
<ul style="list-style-type: none"><li>■ Citrix XenApp Plugins for Windows</li><li>■ Architecture and Communication</li><li>■ Citrix Online Plug-in Installation<ul style="list-style-type: none"><li>■ Installing the Citrix Online Plug-in</li></ul></li><li>■ Citrix Online Plug-in Usage<ul style="list-style-type: none"><li>■ Using the Citrix Online Plug-in Web</li><li>■ Using the Citrix Online Plug-in</li></ul></li><li>■ Session Reliability</li></ul>
<b>Lesson 3: Publishing Resources</b>
<ul style="list-style-type: none"><li>■ Resource Publishing<ul style="list-style-type: none"><li>■ Publishing Resources</li><li>■ Organizing Published Resources for Users</li></ul></li><li>■ Advanced Published Resource Settings<ul style="list-style-type: none"><li>■ Configuring Access Control Properties</li><li>■ Configuring Client-to-Server Content Redirection</li><li>■ Configuring Server-to-Client Content Redirection</li><li>■ Implementing Resource Limits and Client Options</li><li>■ Configuring Resource Appearance</li></ul></li><li>■ Published Resource Management<ul style="list-style-type: none"><li>■ Viewing Published Resource Usage</li><li>■ Modifying Published Resource Properties</li><li>■ Disabling or Hiding a Published Resource</li></ul></li></ul>

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## Lesson 4: Enabling Web Access to Published Resources

- Web Interface Architecture and Communications
- Web Interface Installation
- Site Creation
  - Creating XenApp Web Sites
  - Creating XenApp Services Sites
  - Modifying a Web Interface Site
- Site Appearance
  - Configuring the Site Appearance
  - Configuring Session Preferences
  - Configuring Workspace Control
- XenApp Plugins and the Web Interface
  - Configuring Plugin Deployment
  - Configuring Client for Java Settings
- Authentication Configuration
  - Configuring Explicit Authentication
  - Configuring Pass-through Authentication
  - Configuring Smart Card Authentication
- Web Interface Access Methods
  - Configuring an Access Method
- Client-side Proxy Setting Configuration
- Server Configuration
  - Adding Server Farms
  - Configuring Load Balancing
  - Enabling Fault Tolerance
  - Configuring the Citrix XML Service
- Web Interface Site Removal

## Lesson 5: Configuring Policies in XenApp

- Architecture and Communication
- Policies in XenApp
  - Identifying Policy Rules
  - Using the Streamed Applications Rule
  - Creating Policies in XenApp
  - Applying Policies Using Filters
- Policy Administration
  - Prioritizing Policies
  - Using the Policy Search Engine
  - Merging Shadow Policies
- Common Policy Configuration Missteps

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## Lesson 6: Configuring Sessions in XenApp

- Session Connection Settings
  - Configuring Virtual IP Addresses
  - Configuring Broadcast Settings
  - Configuring the Citrix XML Service
  - Configuring Time Zone Settings
  - Configuring Novell Directory Services
- Session Reconnection Configuration
  - Configuring Keep-Alive Settings
  - Configuring Session Reliability
  - Configuring Auto Client Reconnect
- Session Performance Configuration
  - Configuring HDX Broadcast Display
  - Configuring HDX 3D Browser Acceleration
  - Configuring HDX MediaStream Multimedia Acceleration
  - Configuring HDX MediaStream for Flash
  - Configuring SpeedScreen Latency Reduction
  - Configuring HDX 3D Progressive Display

## Lesson 7: Configuring XenApp

- Administrator Accounts and Permissions
  - Adding Administrator Accounts
  - Configuring Administrator Permissions
  - Configuring Folder Permissions
- Configuration Logging
  - Connecting to the Configuration Logging Database
  - Configuring Configuration Logging
- Data Collectors and License Servers
  - Configuring Data Collectors
  - Specifying the License Server
- Performance Settings
  - Optimizing CPU Utilization
  - Implementing Virtual Memory Management
- Administration Settings
  - Configuring Health Monitoring and Recovery
  - Configuring Remote Console Connections
  - Configuring ICA Connection Limits
  - Configuring Shadow Settings
- Power and Capacity Management
  - Installing Power and Capacity Management
  - Configuring Power and Capacity Management

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## Lesson 8: Configuring Load Management

- Load Balancing Process
- Load Calculation
- Load Evaluator Configuration
  - Creating Custom Load Evaluators
  - Assigning Load Evaluators to Servers and Applications
- Load Monitoring
  - Monitoring Load Evaluator Usage
  - Monitoring Load Evaluator Rule Activity
  - Logging Load Manager Activity
- Load Management Troubleshooting Tips

## Lesson 9: Delivering Applications with XenApp

- Application Installation
  - Shadow Isolation Environments
  - Creating an Isolation Environment
  - Configuring Isolation Environment Settings
  - Associating an Application with an Isolation Environment
- Installation Manager Overview
  - Installation Manager Packaging
  - Rolling Back the Packager
  - Packaging an Application
  - Packaging a File or Folder Contents
  - Packaging an Unattended Installation
- Package Delivery
  - Adding a Package to the Installation Manager Database
  - Installing a Package
  - Publishing a Package
  - Installation Manager Administration
  - Configuring Installation Manager Properties
  - Creating Server Groups
  - Creating and Using Package Groups
  - Viewing Package Status
  - Uninstalling a Package

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## Lesson 10: Configuring Printing

- Architecture and Communication
  - Printer Provisioning
  - Secure Client Printing
  - Workspace Control
  - Network Considerations
- Print Drivers
- Client Printers
  - Enabling Client Printer Auto-creation
  - Creating Auto-retained Printers
  - Creating Permanent Client Printers
  - Creating Auto-restored Client Printers
- Network Printers
- Importing Print Servers
- Assigning Network Printers to Users
- Managing Printer Bandwidth
- Print Driver Management
  - Replicating Print Drivers
  - Maintaining Print Driver Compatibility Lists
  - Configuring Print Driver Mappings
  - Assigning Printer Creation Settings to Published Applications
- Common Printing Configuration Missteps

## Lesson 11: Streaming Applications

- Application Streaming Components
- Application Streaming Communications
- Citrix Offline Plug-in
  - Installing the Citrix Offline Plug-in
- Citrix Streaming Profiler
  - Installing the Citrix Streaming Profiler
- Profile Configuration
  - Setting Profiler Preferences
  - Configuring Profiles
  - Configuring Inter-isolation Communication
  - Viewing and Changing Profile Properties
  - Changing Target Properties
  - Adding a Target to a Profile
  - Deleting a Target from a Profile
  - Upgrading an Application in a Target
  - Deleting an Obsolete Version of a Target
- Streaming Application Configuration
  - Publishing a Streamed Application
  - Changing the Application Type
  - Specifying an Alternate Profile for a Published Application
  - Enabling the Least-Privileged User Account
  - Configuring Sites for Streaming Applications
- Offline Access Management
  - Providing Offline Access

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- Customizing the Offline License Setting
- Caching Applications for Offline Access

## Lesson 12: Securing Access to Published Resources

- SecureICA Encryption
  - Configuring SecureICA Encryption in a Policy
  - Configuring SecureICA Encryption Through a Published Application
- Citrix SSL Relay
  - Configuring Citrix SSL Relay
- Access Gateway
- Secure Gateway
  - Secure Gateway Configuration
  - Using Digital Certificates
  - Installing the Secure Gateway
  - Configuring the Secure Gateway
  - Configuring the Secure Ticket Authority
- Web Interface Configuration
  - Configuring the Access Method
  - Configuring the Web Interface Secure Gateway Settings
- Secure Gateway Monitoring
- Security Best Practices