

Citrix XenApp 6.5 Basic Administrator (CXA-206-1)

Duration: 5 Days

Course Description

Citrix XenApp 6.5 Basic Administration 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. You 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.

What You'll Learn

- Licensing and Installing XenApp
- Administrative Configuration
- Installing and Configuring Web Interface
- Delivering Applications and Content
- Streaming Applications
- Configuring Policies and Load Management
- Optimizing the User Experience
- Configuring Self Service Applications
- Configuring Printing
- XenApp Security
- Monitoring XenApp

Course Outline

1. Basic Administration for Citrix XenApp 6

- XenApp Editions
- XenApp Features
- XenApp Architecture
 - 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

2. Licensing XenApp

- XenApp Licensing
 - Licensing Communication
 - License Communication Process
 - License Types
 - Citrix License Server
 - Microsoft Remote Desktop Services
 - Remote Desktop Licensing
 - Additional Licensing Considerations
- License Administration Console
 - Port Configuration
 - Delegated Administrators in the License Administration Console
- Installing Licensing
 - Manual Installation and Configuration
 - Removing Licensing
 - License Server Considerations
- License File Management
 - Obtaining License Files
 - Adding License Files
 - Subscription Advantage

- High Availability Considerations
 - Additional License Server Processes
 - License Server Clustering

3. Installing XenApp

- XenApp Server Role Manager
- Hardware Requirements
- Software Requirements
- Installation Decisions
- Server Configuration Tool
- Dynamic Data Center Provisioning
- Role-Based Uninstall
- XenApp Configuration Options
 - 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

4. Configuring XenApp Administration

- Worker Groups
 - Managing Worker Groups
- Administrator Privilege Levels
 - Creating Administrator Accounts
 - Configuring Administrator Permissions
 - Configuring Folder Permissions
 - Delegating Administration
- Configuration Logging

- Creating the Configuration Logging Database
- Configuration Logging Database Settings
- Enabling Configuration Logging

5. Installing and Configuring Web Interface

- Web Interface Ports
- Web Interface Communication Process
- Web Interface Installation
- Site Creation
 - Creating a Web Interface Site
 - Site Creation Considerations
 - XenApp Web Site Configuration Options
 - XenApp Services Site Configuration
- Web Interface Site Modification
 - Modifying the Web Interface Configuration File
 - Using the Web Interface Management Console
- Specifying Citrix Plug-In Backup URLs
- Site Appearance
 - Site Customization Options
 - Session Preferences
 - Session Options
 - User Options
- Workspace Control
 - Functionality
 - Configuration Options
 - User Customization
 - Configuring Workspace Control
 - Session Termination
- Citrix Plug-Ins and Web Interface
 - Plug-In Deployment Options
 - Automatically Detecting Plug-Ins
 - Client Detection
- Authentication Configuration
 - Authentication Options
 - Generic RADIUS Support
 - Explicit Authentication
 - Pass-Through Authentication
 - Smart Card Authentication
 - Citrix XML Service Trust Relationships
- Secure Access Configuration
 - Access Methods
 - Network Address Translation
 - Network Address Translation Access Types
- Server Configuration
 - Configuring Multiple Farms
 - Adding Farms
 - Configuring Load Balancing
 - Enabling Fault Tolerance
 - Specifying the XML Communication Port
 - Ticket Expiration Settings
- Web Interface Site Removal
- Troubleshooting Web Interface Issues

6. Delivering Applications and Content

- Published Resources
 - Types
 - Resource Publishing Phases
 - Resource Name and Location
 - Server Assignment
 - Configured or Anonymous Accounts
 - Users and Groups
 - Resource Publishing Settings

- VM Hosted Apps
 - Components
- Organizing Published Resources for Users
- Advanced Published Resource Settings
 - Access Control
 - Content Redirection
 - Implementing Resource Limits and Client Options
 - Configuring Resource Appearance
- Published Resource Configuration
 - Session Pre-Launch
 - Managing Connections to Resources
 - Disabling or Hiding a Published Resource
- Troubleshooting Application Delivery Issues

7. Streaming Applications

- Application Streaming
 - Benefits
 - Components
 - Communication Process
 - Streaming App-V Packages
- Citrix Offline Plug-In
 - Cache
 - Installation
- Citrix Streaming Profiler
 - Profiling Process
 - Installing the Citrix Streaming Profiler
 - 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
- Streaming to Servers
- Publishing a Streamed Application
 - Specifying an Alternate Profile for a Published Application
 - Enabling the Least-Privileged User Account
- Configuring Sites for Streaming Applications
 - Support for Both Remote and Streaming Applications
 - Offline Access Management
 - 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

8. Configuring Policies

- Group Policy Integration
 - IMA-Based Group Policies
 - Group Policy Extensions
 - Group Policy Architecture

- Policy Evaluation
 - Process
 - Policy Processing and Precedence
 - Policy Changes Example
 - Policy Precedence Exceptions
 - Policy Rules
 - Support for Policy Templates
 - Policy Filtering
 - Policy Modeling
- Supported Plug-ins, Clients, and Receivers
 - Plug-In Delivery
 - Client for Java
 - Installation Considerations
 - Troubleshooting Self-Service Application Issues

9. Configuring Load Management

- Load Manager
- Load Balancing
 - Process
- Load Calculation
- 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
 - Example
 - Considerations
- Troubleshooting Load Management Issues

10. Optimizing the User Experience

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

11. Configuring Self-Service Applications

- Self-Service Applications Technologies
 - Citrix Receiver
 - Windows
 - Macintosh
 - Citrix Merchandising Server
 - Architecture
 - Plug-Ins

12. Configuring Printing

- Printing Concepts
 - Printing Definitions
 - Printer Types
 - Printing Security
- Default Printing Behavior
 - Altering the Default Printing Behavior
- Printer Provisioning
 - User Self-Provisioning
 - Printer Auto-Creation
 - Printing Pathways
 - Network Printing Pathway
 - Client Printing Pathway
 - Printing Pathway Demonstration
- Printer Drivers
- Citrix Universal Printing
 - Enhanced MetaFile Format
 - Print Preview
 - Citrix Universal Printer
 - Configuring Citrix Universal Printing
- Administrator-Assigned Network Printers
 - Adding a Network Printer
 - Editing Network Printer Settings
 - Specifying the Default Printer
- Workspace Control and Proximity Printing
 - Configuring Proximity Printing
 - Printing Preferences
- Printing Properties
 - Printing Preference Hierarchy
 - Configuring Printer Property Retention
- Printing Bandwidth
- Troubleshooting Printing Issues

13. Securing XenApp

- XenApp Security Solutions
- SecureICA
- Citrix SSL Relay
 - Communication
 - Configuration
- Access Gateway
 - Deployment Scenarios
 - Communications
 - Digital Certificates
 - Securing Access to Hosted Applications
 - SmartAccess
- Web Interface Configuration
 - Access Methods
 - Access Gateway Settings
 - Configuring Web Interface for Access Gateway Connections
- Security Configuration Best Practice
- Troubleshooting Access Gateway with XenApp

14. Monitoring XenApp

- Health Monitoring and Recovery
- Service Monitoring for XenApp

- Components
- Communication
- License Usage Monitoring
 - Configuring License Alerts
 - Viewing License Usage
 - Viewing Historical License Data
- Workflow Studio
 - Architecture
 - Workflow Automation Use Case
- Accessing the Farm using PowerShell
- Administering the Farm using Commands

15. Additional Component

- SmartAuditor
 - Components
 - Session Recording Process
- Single Sign-On
 - Components
 - Process
- Branch Optimization
 - Branch Repeater Components
 - Branch Optimization Process for the Plug-In
- Provisioning Services
 - Components
- Power and Capacity Management
- XenServer
 - Components

Pre-Requisites

- 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

Who Needs to Attend

- 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
- Systems engineers, sales engineers, analysts, consultants, and architects