

Citrix XenApp 6.5 Advanced Administrator (CXA-301)

Duration: 5 Days

In this course, you will learn the skills necessary to monitor, maintain, optimize, and troubleshoot Citrix XenApp 6.5 environments running on Windows Server 2008 R2 software. You will be introduced to the tools used to monitor the XenApp farm, record farm activity, and generate reports. In addition, you will develop the skills needed to maintain data and server integrity and to scale, optimize, and troubleshoot the XenApp farm. To reinforce and expand on the course content, this course includes numerous hands-on exercises.

What You'll Learn

- Troubleshooting the XenApp environment
- Scaling the XenApp environment
- Creating farm redundancy
- Maintaining the XenApp environment
- Optimizing the XenApp environment
- Optimizing the user environment
- Optimizing printing
- Securing XenApp
- Monitoring XenApp with standard utilities
- Monitoring XenApp with EdgeSight

Course Outline

1. Troubleshooting the XenApp Environment

- Troubleshooting Methodology
- Logon Issues
- User Sessions
- Server Resources

2. Scaling the XenApp Environment

- Farm Configuration Recommendations
- Farm Scalability
- Scripted Installation
- Server Build Scripting
- XenApp Server Templates
- Data Store Database Migration
- Dedicated Data Collector
- Web Interface Planning
- Delivery Services
- XenApp and XenDesktop Integration
- XenApp and Provisioning Services Integration
- XenApp and Merchandising Server Integration

3. Creating Farm Redundancy

- Eliminating Single Points of Failure
- Disaster Recovery
- Load Balancing
- XenApp and NetScaler Integration

4. Maintaining the XenApp Environment

- Farm Setting Migration
- Data Store Database Maintenance
- Data Store Database Recovery
- Local Host Cache
- XML Service Overview
- Routine Operations
- Power and Capacity Management

5. Optimizing the XenApp Environment

- Performance Tuning
- Windows Server Tuning for XenApp
- XenApp Tuning
- Virtual Memory Optimization
- CPU Optimization
- Virtual Machine Sizing

- Multi-Streaming
- Accelerating ICA Traffic with Branch Repeater
- QoS through Branch Repeater

6. Optimizing the User Environment

- Access Methods
- Application Compatibility
- Application Streaming
- General Guidelines for Improving Application Performance
- User Profiles
- Session Pre-Launch
- User Connection Configuration

7. Optimizing Printing

- Printing Architecture Review
- Managing Printers
- Citrix Universal Printer
- Printing Performance Policies
- Non-Native Printer Drivers
- Printer Driver Isolation
- Printing Tools
- Troubleshooting Printing

8. Securing XenApp

- Setting Rights and Permissions
- XenVault
- SSL Certificates
- XenApp Security with Access Gateway

9. Monitoring XenApp with Standard Utilities

- XenApp Monitoring
- XenApp Utilities
- Citrix Utilities
- Third-Party Tools

10. Monitoring XenApp with EdgeSight

- EdgeSight Components
- Real-Time Information
- Reports
- Alerts
- Active Application Monitoring

Labs

Lab 1: Troubleshooting the XenApp Environment

- Troubleshoot an AppCenter Issue
- Troubleshoot Web Interface and XML Issues
- Troubleshoot Launching a Hosted Application
- Troubleshoot Streaming Applications

Lab 2: Scaling the XenApp Environment

- Prepare to Clone a XenApp Server
- Clone a XenApp Server
- Prepare a XenApp Server for Scripted Configuration
- Perform a Scripted Configuration

Lab 3: Creating Farm Redundancy

- Load Balancing Web Interface and XML Services Using Citrix NetScaler
- Test Load Balancing through Citrix NetScaler
- Install and Configure Web Interface on Citrix NetScaler

Lab 4: Maintaining the XenApp Environment

- Update the Mozilla Firefox Streaming Profile
- Perform Data Store Maintenance Commands
- Configure Power and Capacity Management
- Create a Restart Schedule for the XenApp Servers

Lab 5: Optimizing the XenApp Environment

- Enable Multi-Stream ICA Policies for Specific ICA Traffic

- Enable CPU and Memory Optimization

Lab 6: Optimizing the User Environment

- Configure Profile Management
- Profile an Application Requiring a Service
- Configure Session Pre-Launch

Lab 7: Optimizing Printing

- Verify Printer Driver Compatibility with XenApp
- Replicate Print Drivers Using PowerShell
- Troubleshoot a Printer Issue with the Citrix Group Policy Modeling Wizard

Lab 8: Securing XenApp

- Create and Distribute a Root CA Certificate
- Encrypt External ICA Traffic Using ICA Proxy
- Restrict External Application Access
- Encrypt XML Traffic with SSL Relay

Lab 9: Monitoring XenApp with Standard Utilities

- Use Desktop Director to View Session Data
- Monitor XenApp using Performance Monitor
- Monitor XenApp using Command Line Utilities

Lab 10: Monitoring XenApp with EdgeSight

- View EdgeSight Historical Data
- View EdgeSight Real-Time Data

Pre-Requisites

- Experience operating a XenApp farm, including administering users, publishing applications, and setting policies
- Basic understanding of the components of a XenApp environment and server roles
- Basic knowledge of the purpose and goals of virtualization technology
- Basic experience installing and administering Windows Server 2008 R2 with Remote Desktop Services
- Understanding of computing architecture, including network and storage devices, device drivers, and operating systems
- Basic understanding of network security principles

Who Needs to Attend

- IT professionals, such as server, network, and system administrators familiar with Microsoft Windows Server 2008 R2 environments
- System engineers, analysts, consultants, architects and Citrix partners
- Existing XenApp administrators, especially those with basic XenApp 6.5 experience and those who are interested in achieving CCAA or CCEE certification