CXA-301 Citrix XenApp 6.5 Advanced Administration

Course Summary

Description

This course provides learners with the skills necessary to monitor, maintain, optimize and troubleshoot Citrix XenApp 6.5 environments running on Windows Server 2008 R2 software. Learners are introduced to the tools used to monitor the XenApp farm, record farm activity and generate reports. In addition, learners take away the skills needed to maintain data and server integrity and to scale, optimize and troubleshoot the XenApp farm. This course encourages learning by doing and includes many hands-on exercises that reinforce and expand on the course content.

Topics

- 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

Audience

This course is intended for 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 are appropriate candidates for this course. Existing XenApp administrators, especially those with basic XenApp 6.5 experience and those who are interested in achieving CCAA or CCEE certifications, are ideal candidates.

Prerequisites

- 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
- An understanding of computing architecture, including network and storage devices, device drivers and operating systems
- Basic understanding of network security principles

Duration

Five days

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I. Troubleshooting the XenApp Environment
- A. Troubleshooting Methodology
- B. Logon Issues
- C. User Sessions
- D. Server Resources
- E. Exercise 1-1: Troubleshooting an AppCenter Issue
- F. Exercise 1-2: Troubleshooting Web Interface and XML Issues
- G. Exercise 1-3: Troubleshooting Launching a Hosted Application
- H. Exercise 1-4: Troubleshooting Streaming Applications

II. Scaling the XenApp Environment
- A. Farm Configuration Recommendations
- B. Farm Scalability
- C. Scripted Installation
- D. Server Build Scripting
- E. XenApp Server Templates
- F. Data Store Database Migration
- G. Dedicated Data Collector
- H. Web Interface Planning
- I. Delivery Services
- J. XenApp and XenDesktop Integration
- K. XenApp and Provisioning Services Integration
- L. XenApp and Merchandising Server Integration
- M. Exercise 2-1: Preparing to Clone a XenApp Server
- N. Exercise 2-2: Cloning a XenApp Server
- O. Exercise 2-3: Preparing a XenApp Server for Scripted Configuration
- P. Exercise 2-4: Performing a Scripted Configuration

III. Creating Farm Redundancy
- A. Eliminating Single Points of Failure
- B. Disaster Recovery
- C. Load Balancing
- D. XenApp and NetScaler Integration
- E. Exercise 3-1: Load Balancing Web Interface and XML Services Using Citrix NetScaler
- F. Exercise 3-2: Testing Load Balancing through Citrix NetScaler
- G. Exercise: 3-3: Installing and Configuring Web Interface on Citrix NetScaler

IV. Maintaining the XenApp Environment
- A. Farm Setting Migration
- B. Data Store Database Maintenance
- C. Data Store Database Recovery
- D. Local Host Cache
- E. XML Service Overview
- F. Routine Operations
- G. Power and Capacity Management
- H. Exercise 4-1: Updating the Mozilla Firefox Streaming Profile
- I. Exercise 4-2: Performing Data Store Maintenance Commands
- J. Exercise 4-3: Configuring Power and Capacity Management
- K. Exercise 4-4: Creating a Restart Schedule for the XenApp Servers

V. Optimizing the XenApp Environment
- A. Performance Tuning
- B. Windows Server Tuning for XenApp
- C. XenApp Tuning
- D. Virtual Memory Optimization
- E. CPU Optimization
- F. Virtual Machine Sizing
- G. Multi-Streaming
- H. Accelerating ICA Traffic with Branch Repeater
- I. QoS through Branch Repeater
- J. Exercise 5-1: Enabling Multi-Stream ICA Policies for Specific ICA Traffic
- K. Exercise 5-2: Enabling CPU and Memory Optimization

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Course Summary (cont'd)

VI. Optimizing the User Environment
- A. Access methods
- B. Application Compatibility
- C. Application Streaming
- D. General Guidelines For Improving Application Performance
- E. User Profiles
- F. Session Pre-Launch
- G. User Connection Configuration
- H. Exercise 6-1: Configuring Profile Management
- I. Exercise 6-2: Profiling an Application Requiring A Service
- J. Exercise 6-3: Configuring Session Pre-Launch

VII. Optimizing Printing
- A. Printing Architecture Review
- B. Managing Printers
- C. Citrix Universal Printer
- D. Printing Performance Policies
- E. Non-Native Printer Drivers
- F. Printer Driver Isolation
- G. Printing Tools
- H. Troubleshooting Printing
- I. Exercise 7-1: Verifying Printer Driver Compatibility with XenApp
- J. Exercise 7-2: Replicating Print Drivers Using PowerShell
- K. Exercise 7-3: Troubleshooting a Printer Issue with the Citrix Group Policy Modeling Wizard

VIII. Securing XenApp
- A. Setting Rights and Permissions
- B. XenVault
- C. SSL Certificates
- D. XenApp Security with Access Gateway
- E. Exercise 8-1: Creating and Distributing a Root CA Certificate
- F. Exercise 8-2: Encrypting External ICA Traffic Using ICA Proxy
- G. Exercise 8-3: Restricting External Application Access
- H. Exercise 8-4: Encrypting XML Traffic With SSL Relay

IX. Monitoring XenApp with Standard Utilities
- A. XenApp Monitoring
- B. XenApp Utilities
- C. Citrix Utilities
- D. Third-party tools
- E. Execise 9-1: Using Desktop Director to View Session Data
- F. Exercise 9-2: Monitoring XenApp using Performance Monitor
- G. Exercise 9-3: Monitoring XenApp Using Command Line Utilities

X. Monitoring XenApp with EdgeSight
- A. EdgeSight Components
- B. Real-Time Information
- C. Reports
- D. Alerts
- E. Active Application Monitoring
- F. Exercise 10-1: Viewing EdgeSight Historical Data
- G. Exercise 10-2: Viewing EdgeSight Real-Time Data

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