

CTX-1741AI Citrix WANScaler 4.3 and Citrix Branch Repeater: Administration

This course introduces administrators and other IT professionals to the operational theory behind Citrix WANScaler 4.3 and prepares them to plan a deployment and to install, configure and administer the product. This course also covers the information necessary to successfully install and configure the WANScaler Client and Citrix Branch Repeater Enterprise Edition.

Audience

This course is intended for learners familiar with networking components, including network administrators, network engineers and systems engineers

Preparatory Recommendations

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

- Knowledge of TCP/IP protocols
- Understanding of OSI model
- Experience with network devices, including routers and switches
- Experience with networking protocols
- Experience with aspects of site architecture, including DMZ and VLANs
- Exposure to basic systems administration concepts, including logging, software upgrade procedures and high availability operations

Key Skills

Upon successful completion of this course, learners are able to:

- Identify the features of Citrix WANScaler 4.3.
- Identify the limitations of TCP over a WAN and identify how protocols are optimized.
- Determine when to deploy in inline, virtual inline and group modes.
- Identify high availability (HA) pair considerations and identify router considerations.
- Deploy a Citrix WANScaler and configure initial settings.
- Create users and assign permissions, administer licenses and system tools, generate reports and understand logs, alerts and graphs.
- Test bandwidth, configure bandwidth modes and schedules and configure tuning options.
- Create a service class, configure QoS and monitor QoS statistics.
- Configure and extract the WANScaler log.
- Identify common WANScaler deployment issues and resolutions.
- Test bandwidth and capture traces.
- Configure the signaling IP address and acceleration rules on a WANScaler appliance.
- Install and configure the WANScaler Client.
- Identify the Branch Repeater installation steps, management tools, and supported Windows services and components.
- Perform Branch Repeater initial configuration and maintenance tasks.

Instructional Method

This course is an instructor-led training course with classroom discussion, demonstrations and the practical application of concepts through hands-on exercises.

Course Length

2 days

Certification Preparation

This course will help prepare learners prepare for Exam 740 Citrix WANScaler 4.2: Administration.

Registration

For more information and to register for this course, please go to www.CitrixEducation.com.

Topic Outline

Provided is the topic outline for CTX-1741AI.

- Technical Overview
 - Overview
 - Product Overview
 - Typical TCP Flow
 - Typical TCP Flow over a WAN
 - TCP Flow with WANScaler
 - Autodiscovery
 - Fair Queuing
 - Multi-Level Compression
 - CIFS Optimization
- Planning a WANScaler Deployment
 - Overview
 - Network Architectural Overview
 - Inline Mode
 - Web Cache Communication Protocol (WCCP) Mode
 - Virtual Inline Mode
 - High Availability
 - Group Mode
 - Deployment Mode Guidelines
 - Deployment Topologies
- Performing a Basic Installation
 - Overview
 - Network Conditions
 - Installation
 - IP Address Configuration
 - Configuring IP Address Settings
 - Accessing the Management Interface
 - Initial Configuration
 - Configuring Interface Settings
 - Enabling Additional Ports
 - Changing the Administrator Password
 - Configuring Initial Bandwidth Settings
 - Mode-Specific Configurations
 - Configuring WCCP Mode
 - Configuring Virtual Inline Mode
 - Enabling Group Mode
 - Configuring High Availability Mode
- Administering and Monitoring
 - Overview
 - Licensing and Hardware
 - Updating a License
 - User and Access Administration
 - Adding a New User
 - Configuring Authentication
 - System Configuration
 - Setting the Date and Time
 - Saving or Restoring a Configuration
 - Upgrading System Software
 - Command Center

- System Status
- Logs, Alerts and Reports
 - Viewing WANScaler Log Events
 - Exporting WANScaler Log Events
 - Configuring Alert Settings
 - Monitoring Real-Time Traffic
 - Monitoring Active Connections
- Performing Bandwidth Configuration
 - Overview
 - Bandwidth Management
 - Configuring the Usage Graph
 - Hardboost and Softboost
 - Full and Partial Bandwidth
 - Configuring Bandwidth Modes
 - Bandwidth Limits
 - Setting the Bandwidth Limit
 - Bandwidth Schedules
 - Scheduling Bandwidth Limits
 - Additional Tuning Options
 - Tuning CIFS Acceleration
 - Setting Window Scale Limits
 - Configuring Connection Timeouts
- Configuring Service Classes and Quality of Service
 - Service Classes
 - Creating a New Service Class
 - Configuring a Service Class Policy
 - Quality of Service
 - Configuring QoS
 - Dynamic QoS for Citrix XenApp
 - QoS and Service Class Monitoring
 - Monitoring Service Classes
 - Monitoring QoS
- Performing Basic Troubleshooting
 - Overview
 - Troubleshooting Strategies
 - Common Issues and Resolutions
 - Resolving Cabling, Duplex and Connection Issues
 - Resolving General Acceleration Failure Issues
 - Resolving Slow Acceleration Issues
 - Resolving CIFS Acceleration Issues
 - SNMP
 - SNMP Polling and Trapping
 - Configuring SNMP Access
 - Adding Trap Destinations
 - Diagnostic Tools
 - Conducting a Bypass Card Test
 - Retrieving Core Files
 - Performing a Trace on a WANScaler Appliance
- Installing and Configuring the WANScaler Client
 - Overview
 - WANScaler Client Solution
 - Transparent and Redirector Modes
 - Transparent Mode
 - Redirector Mode
 - Acceleration Rules
 - WANScaler Client Installation
 - Customizing the .MSI File
 - Installing the WANScaler Client
 - Citrix Accelerator Manager

- Configuring the WANScaler Client
- Installing and Configuring Branch Repeater Enterprise Edition
 - Overview
 - Introduction to Citrix Branch Repeater Enterprise Edition
 - Deployment Planning
 - Basic Installation
 - Management Tools
 - Windows Services and Components
 - Maintenance
 - Monitoring, Logging and Reporting
 - Basic Administration
 - Basic Troubleshooting