DEPLOY AND MANAGE CITRIX ADC 13.X WITH CITRIX GATEWAY (CNS-227)

Course Code: 4569

Learn how to deploy and manage ADC with Citrix Gateway.

Expand your Citrix networking knowledge and skills by enrolling in this five-day course. It covers Citrix ADC essentials, including secure load balancing, high availability and operations management, and also focuses on Citrix Gateway. You will learn to deliver secure remote access to apps and desktops integrating Citrix Virtual Apps and Citrix Desktops with Citrix Gateway.

What You'll Learn

- Identify the functionality and capabilities of Citrix ADC and Citrix Gateway.
- Expand basic Citrix ADC and Citrix Gateway network architecture.
- Identify the steps and components to secure Citrix ADC.
- Integrate Citrix Gateway with Citrix Virtual App, Citrix Virtual Desktops and other Citrix components.

Who Needs to Attend

- IT professionals.
- Systems engineers.
- Server administrators.
- Citrix Partners who need to know how to deploy Citrix ADC solution.

Prerequisites

A basic understanding of TCP/IP, HTTP, and of the OSI model, network devices, and networking protocols.

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CLASSROOM LIVE	$5,000 USD	5 Day

Classroom Live Outline

1. Getting Started

- Introduction to the NetScaler System
- TriScale
- NetScaler Use Cases o NetScaler Functionality
- NetScaler Overview
- Product Features
- NetScaler Operating System Overview
- nCore Configuration Architecture
- NetScaler File system
- Deployment Scenarios
- Logging in to the NetScaler System
- NetScaler Licenses

2. Basic Networking

- OSI Networking Model
- NetScaler Architecture Overview
- NetScaler-Owned IP Addresses
- Network Topology
- NetScaler Network Interfaces
  Virtual Local Area Networks (VLANs)
- IP Routing
- Determining the Source IP Address
- Packet Forwarding
- Use Source IP Mode
- Client-IP HTTP Header Insertion
- Path MTU Discovery
- Link Aggregation

- Access Control Lists
- Network Address Translation (NAT)

3. NetScaler Platforms

- Architecture and General Concepts
- Hardware Platforms
- Hardware Components
- MPX Overview
- VPX Overview
- CPX Overview
- SDX Overview
- Identify the unique capabilities and functionality of the NetScaler SDX platform
- Identify the networking characteristics of the NetScaler SDX platform
- Explain the process of provisioning and administration of NetScaler VPX instances on a NetScaler SDX appliance

4. High Availability

- High Availability Functionality
- High Availability Node Configuration
- Propagation and Synchronization
- Failover, Route Monitors, Fail Safe
- Propagation, Synchronization
- High Availability Management
- Performing an Upgrade
- Troubleshooting
- Upgrading HA pair

5. Load Balancing

- Local Load Balancing concepts
- Naming conventions
- Persistence
- Service Types
- LB Methods
- Disabling Entities
- Diagnostics/Troubleshooting
- L4 vs L7 for TCP services
- UDP ping vs L7
- Monitor attributes
- Built in L7 monitors
- Monitors from Scripts
- EAV Monitors
- ECV Monitors
- DataStream

6. SSL Offload

- SSL and TLS
- SSL Session Process

- SSL Administration
- SSL Offload Overview
- SSL Attacks Overview
- SSL Troubleshooting
- Cipher Suites
- Certificate Management
- Feature and Benefits
- Offload Performance
- Deployment Scenarios
- Citrix Recommendations for SSL

7. Securing the NetScaler

- NetScaler Communication Ports
- Overview of AAA
- Authentication on the NetScaler
- NetScaler Users
- Command Policies
- Admin Partitions

8. Monitoring, Management, and Troubleshooting

- Monitoring Needs
- NetScaler Log Management
- Simple Network Management Protocol
- AppFlow on the NetScaler System
- NetScaler Insight Overview
- NetScaler Command Center Overview
- Network Traffic Capture using NSTRACE
- Troubleshooting with Filter Expression
- Decoding SSL Traffic with Wireshark
- Display NetScaler System Information

9. Authentication and Authorization

- System and AAA Users Groups
- External Authentication
- Authentication Actions and Policies
- Authentication Configuration
- Supported Authentication Types

10. Access Policies

- Endpoint Analysis
- Policy, Profiles, and Expressions
- Pre-Authentication Policies and Profiles
- Post-Authentication Policies
- Endpoint Analysis Troubleshooting

11. End-User Access and Experience

- Connection Methods
- Endpoint Session Policies Settings

- Timeout Settings
- RDP Proxy
- Clientless Access
- VLAN Options

12. Gateway Services Load Balancing

- SSL Offload Overview
- Traffic Types
- Ldap, HDX, StoreFront Load Balancing
- Extended Content Verification (ECV) Monitoring

13. Integrating NetScaler with XenApp and XenDesktop

- Required Firewall Rules
- Web Interface or StoreFront Integration with NetScaler Gateway
- WebFront Overview
- Session Policies

14. Unified Gateway

- NetScaler Unified Gateway Overview
- NetScaler Unified Gateway Reference Architecture Review
- Unified Gateway Key Features
- Unified Gateway Topologies

Classroom Live Labs

Citrix Hosted Hands-on Labs

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VIRTUAL CLASSROOM LIVE	$5,000 USD	5 Day

Virtual Classroom Live Outline

Getting Started

- Introduction to Citrix ADC
- Feature and Platform Overview
- Deployment Options
- Architectural Overview
- Setup and Management

Basic Networking

- Networking Topology
- Citrix ADC Components
- Routing
- Access Control Lists

ADC Platforms

- Citrix ADC MPX
- Citrix ADC VPX
- Citrix ADC CPX
- Citrix ADC SDX
- Citrix ADC BLX

High Availability

- Citrix ADC High Availability
- High Availability Configuration
- Managing High Availability
- In Service Software Upgrade
- Troubleshooting High Availability

Load Balancing

- Load Balancing Overview
- Load Balancing Methods and Monitors
- Load Balancing Traffic Types
- Load Balancing Protection
- Priority Load Balancing
- Priority Load Balancing
- Load Balancing Troubleshooting

SSL Offloading

- SSL Overview
- SSL Configuration
- SSL Offload
- Troubleshooting SSO Offload
- SSL Vulnerabilities and Protections

Security

- Authentication, Authorization, and Auditing
- Configuring External Authentication
- Admin Partitions

Monitoring and Troubleshooting

- Citrix ADC Logging
- Monitoring with SNMP
- Reporting and Diagnostics
- AppFlow Functions
- Citrix Application Delivery Management
- Troubleshooting

Citrix Gateway

- Introduction to Citrix Gateway
- Advantages and Utilities of Citrix Gateway
- Citrix Gateway Configuration
- Common Deployments

AppExpert Expressions

- Introduction to AppExpert Policies
- Default Policies
- Explore Citrix ADC Gateway Policies
- Policy Bind Points
- Using AppExert with Citrix Gateway

Virtual Classroom Live Labs

Citrix Hosted Hands-on Labs
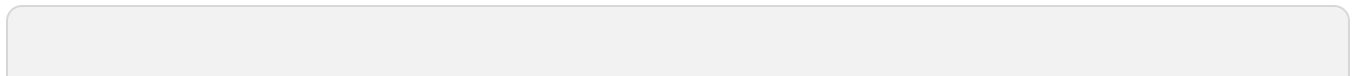
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PRIVATE GROUP TRAINING	5 Day

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