NETSCALER GATEWAY 14.X ADMINISTRATION FOR CITRIX ENVIRONMENTS (NSGW-203)

Course Code: 4569

Learn how to implement and manage NetScaler ADC features using leading practices.

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

- Understand the functionalities and capabilities of NetScaler ADC
- How to obtain, install, and manage NetScaler ADC licenses
- Comprehend basic NetScaler ADC network architecture
- Understand how SSL is used to secure NetScaler ADC
- Optimize the ADC system for traffic handling and management

Who Needs to Attend

Built for IT Professionals working with NetScaler ADC, with little to no previous NetScaler ADC experience. Potential students include administrators, engineers, and architects interested in learning how to implement and manage NetScaler ADC features using leading practices.

Prerequisites

This course requires little to no previous experience with NetScaler ADC; however, Citrix recommends 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

NETSCALER GATEWAY 14.X ADMINISTRATION FOR CITRIX ENVIRONMENTS (NSGW-203)

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VIRTUAL CLASSROOM LIVE	$5,000 USD	5 Day

Virtual Classroom Live Outline

Module 1: Getting Started
- Introduction to NetScaler ADC
- Feature and Platform Overview
- Deployment Options
- Architectural Overview
- Setup and Management

Module 2: Basic Networking
- Networking Topology
- NetScaler ADC Components
- Routing
- Access Control Lists

Module 3: High Availability
- NetScaler ADC High Availability
- High Availability Configuration
- Managing High Availability
- In Service Software Upgrade
- Troubleshooting High Availability

Module 4: Load Balancing
- Load Balancing Overview
- Load Balancing Methods and Monitors
- Load Balancing Traffic Types
- Load Balancing Protection
- Priority Load Balancing
- Load Balancing Troubleshooting

Module 5: SSL Offloading

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

Module 6: Securing System Traffic
- Authentication, Authorization, and Auditing
- Configuring External Authentication
- Admin Partitions

Module 7: Monitoring & Troubleshooting
- NetScaler ADC Logging
- Monitoring with SNMP
- Reporting and Diagnostics
- AppFlow Functions
- Citrix Application Delivery Management
- Troubleshooting

Module 8: NetScaler Gateway
- Introduction to NetScaler Gateway
- Advantages and Utilities of NetScaler Gateway
- NetScaler Gateway Configuration
- Common Deployments

Module 9: AppExpert Expressions
- Introduction to AppExpert Policies
- Default Policies
- Explore NetScaler Gateway Policies
- Policy Bind Points
- Using AppExpert with NetScaler Gateway

Module 10: Authentication, Authorization & Secure Web Gateway
- Authentication and Authorization
- Multi-Factor Authentication
- nFactor Visualizer
- SAML authentication

Module 11: Manage Client Connections
- Session Policies and Profiles
- Pre and Post Authentication Policies
- NetScaler Gateway Deployment Options
- Managing User Sessions

Module 12 Integration with CVAD
- NetScaler Gateway Integration
- NetScaler Gateway WebFront
- ICA Proxy
- Clientless Access and Workspace App
- Access Fallback
- SmartControl and SmartAccess for ICA

Module 13: Configuring NetScaler Gateway

- Working with Apps on NetScaler Gateway
- RDP Proxy
- Portal Themes and EU

Virtual Classroom Live Labs

Citrix Hosted Hands-on Labs

Feb 9 - 13, 2026 | 10:00 AM - 5:30 PM EST

Mar 9 - 13, 2026 | 10:00 AM - 5:30 PM EDT

Apr 13 - 17, 2026 | 10:00 AM - 5:30 PM EDT

May 11 - 15, 2026 | 10:00 AM - 5:30 PM EDT

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PRIVATE GROUP TRAINING	5 Day

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