

# NS-201: NetScaler ADC 14.x Administration

**Duration: 5 Days**

**Course Description:**

The NS-201: NetScaler ADC 14.x Administration course provides a comprehensive foundation in managing NetScaler ADC systems effectively. Participants will learn essential skills such as configuring, managing, and troubleshooting the NetScaler environment. The course focuses on core topics, including load balancing, application delivery, and secure remote access, enabling IT professionals to optimize application performance and ensure high availability. By the end of the course, learners will have the practical skills to implement advanced features and apply best practices in real-world scenarios. This training is ideal for those looking to enhance their expertise in application delivery and improve network performance within their organizations. This 5-day course is designed for IT Professionals working with NetScaler ADC, with little to no previous NetScaler experience. Potential students include administrators, engineers, and architects interested in identifying, implementing and managing a NetScaler ADC using leading practices as well as implementing advanced policies to control traffic flow through the NetScaler ADC.

**Target Audience:**

NS-201: NetScaler ADC 14.x Administration equips IT professionals with skills in managing Citrix NetScaler ADC, enhancing application delivery and performance. Ideal for network and system administrators.

- Network Administrators
- System Administrators
- IT Support Teams
- Cloud Engineers
- Application Delivery Engineers
- DevOps Engineers
- Network Architects
- Security Engineers
- IT Managers
- Technical Support Specialists
- IT Consultants
- Infrastructure Architects
- Software Developers (working with network services)

**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.

**Course Objectives:**

- Understand the functionalities and capabilities of NetScaler ADC
- How to obtain, install, and manage NetScaler ADC licenses
- Comprehend basic NetScaler network architecture
- Understand how SSL is used to secure NetScaler ADC
- Optimize the NetScaler system for traffic handling and management
- Understand the basic elements of the AppExpert Policy Engine and identify its use cases.
- Understand how to use the features of Rewrite and Responder on the NetScaler ADC.
- Understand the benefits of Content Switching and how to deploy the feature with load balancing.
- Explore various features of NetScaler to improve the client-server experience and responsiveness.
- Understand Global Server Load Balancing and how to use it for site-level redundancy.

**Course Outlines:**

**Module 1: Getting Started**

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

**Module 2: Basic Networking**

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

**Module 3: High Availability**

- Citrix 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**

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

**Module 8: Intro to Policies and Responder Policies**

- Default Policy Overview
- Default Expression Syntax
- Policy Bindings
- AppExpert Additional Features
- Responder Policies

**Module 9: Rewrite & URL Transform**

- Rewrite Policies
- DNS Rewrite
- URL Transformation

**Module 10: Advanced Policy Expressions**

- Advanced/Default Policy Engine.
- Intro to Content Switching.
- Content Switching Policies
- Content Switching protection features

**Module 11: Optimization**

- Citrix ADC Optimization Overview
- HTTP Compression
- Integrated Caching
- Front-End Optimization

**Module 12: Global Server Load Balancing**

- GSLB Overview
- GSLB Architecture
- Content-Switching GSLB
- GSLB MEP and Monitoring
- Customizing GSLB

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