

# Citrix NetScaler 12.x Essentials and Traffic Management

Certification: [CCA-N](#) | Course Length: [5 days](#) | Instructional Method: [Classroom or Virtual with hands-on labs](#)

## Course Overview:

Build your NetScaler knowledge and skills by enrolling in this five-day course. It covers NetScaler essentials-- platforms, architecture, licensing and functionality – and also focuses on traffic management, including content switching, traffic optimization and global server load balancing (GSLB). You will learn about key NetScaler capabilities such as high availability, security and performance, and explore SSL offload, load balancing and monitoring. The traffic management curriculum will cover AppExpert policy engines, the Rewrite and Responder features, content switching, and Security Insight. The course is designed for IT professionals with little or no NetScaler experience.

## What you'll learn:

- Understand the functionalities and capabilities of Citrix NetScaler
- How to obtain, install, and manage NetScaler licenses
- Comprehend basic NetScaler network architecture
- Understand how SSL is used to secure the NetScaler
- Optimize the NetScaler system for traffic handling and management
- Customize the NetScaler system for traffic flow and content-specific requirements
- Employ recommended tools and techniques to troubleshoot common NetScaler network and connectivity issues
- Configure advanced load balancing and explore the new GSLB wizard on the NetScaler system
- Identify the functionality and characteristics of the NetScaler CPX platform

## Is this course for you?

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

## Prerequisite Knowledge:

Citrix recommends students prepare for this course by taking the following course: [CNS-102 NetScaler Overview](#).

## Citrix Versions Covered:

This course is currently on NetScaler version 12, but still applies to all previous versions.

## Learning Path:



## Certification:

 Citrix Certified Associate – Networking

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## Module 1: Getting Started

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

## Module 2: Basic Networking

- Networking Topology
- NetScaler Components
- Routing
- Access Control Lists

## Module 3: NetScaler Platforms

- NetScaler MPX
- NetScaler VPX
- NetScaler CPX
- NetScaler SDX

## Module 4: High Availability

- NetScaler High Availability
- High Availability Configuration
- Managing High Availability
- Troubleshooting High Availability

## Module 5: Load Balancing

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

## Module 6: SSL Offload

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

## Module 7: Securing the NetScaler

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

## Module 8: Troubleshooting

- NetScaler Logging
- Monitoring with SNMP
- Reporting and Diagnostics
- AppFlow Functions
- NetScaler Management and Analytics System (MAS)
- Troubleshooting

## Module 9: Classic Policies

- Policy Overview
- Basics of Content Filtering

## Module 10: Default Policies

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

## Module 11: Rewrite, Responder, and URL Transformation

- Rewrite Policies
- Responder Policies
- DNS Rewrite and Responder
- URL Transformation

## Module 12: Content Switching

- Content Switching Overview
- Content Switching Configuration

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## Module 13: Optimization

- NetScaler Optimization Overview
- HTTP Compression
- Integrated Caching
- Front-End Optimization

## Module 14: Global Server Load Balancing

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

## Module 15: Clustering

- NetScaler Clustering Overview
- NetScaler Cluster Configuration