

CNS-219-1I: Citrix NetScaler Traffic Management



Overview

Designed for students with previous NetScaler experience, this course is best suited for individuals who will be deploying or managing NetScaler environments.

Learn the skills required to configure and manage NetScaler Citrix Traffic Management features, including Content Switching, Traffic Optimization, and Global Server Load Balancing. At the end of the course, students will be able to configure their NetScaler environments to address efficient traffic switching and resilience requirements including Content Switching, Traffic Optimization, and Disaster Recovery.

Required pre-requisite course:

- [CNS-222 Citrix NetScaler Essentials and Unified Gateway](#) OR
- CNS-207 Implementing Citrix NetScaler 11 for App and Desktop Solutions

Recommended pre-requisite course:

- [CNS-102 NetScaler Overview](#)

This course is based on version 11 of the Citrix NetScaler product, but the skills and fundamental concepts learned are common to earlier product versions.

Key Skills

- 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
- Implement NetScaler TriScale technology, including clustering
- Configure advanced load balancing and GSLB on the NetScaler system

Audience

Students interested in learning how to implement and manage NetScaler features using leading practices. Specifically:

- Administrators
- Implementers / Engineers
- Architects

Instructional Method

This course is offered in instructor-led training (ILT) / virtual instructor-led training (vILT) formats with application of concepts through hands-on exercises in a live lab environment.

Course Length

2 days

Course Materials

As part of this course, students will receive the following materials:

- Access to a lab environment for the duration of the course
- Lab exercise guide
- Access to course deliverables including copies of all official materials presented by the instructor with additional notes and references as well as videos featuring Citrix experts on course topics and lab exercises.

Preparatory Requirements and Recommendations

Citrix **requires** students prepare for this course by completing the following course:

- [CNS-222 Citrix NetScaler Essentials and Unified Gateway](#) OR
- CNS-207 Implementing Citrix NetScaler 11 for App and Desktop Solutions

Citrix recommends students prepare for this course by completing the following course:

- [CNS-102 NetScaler Overview](#)

In preparation, students should also gain a basic understanding of the following concepts and technologies:

- Basic Networking
- Windows and Linux Server administration
- TCP/IP, HTTP protocols and the OSI model
- Server load balancing and content switching concepts
- Web server software
- DNS, SSL and compression concepts
- Network security threats and site protection concepts

Certification Preparation

In addition to field experience, this course helps prepares candidates for the [1Y0-351: Citrix NetScaler 10.5 Essentials for Networking exam](#). By passing this exam, candidates will gain the Citrix Certified Professional – Networking (CCP-N) certification. Learn more about Citrix Certifications [here](#).

Topic Outline

- AppExpert Classic Policy Engine
 - Understand the basics of the NetScaler classic policy engine.
 - Describe the NetScaler content-filtering feature and how to configure it.
- AppExpert Default Policy Engine

- Describe Default Policy including basic components.
- Discuss the syntax of Default Policy expression.
- Utilize Actions in policy expression evaluation.
- Distinguish key attributes of policy binding and bind types.
- Construct and manage Default Policies with AppExpert.
- Rewrite, Responder, and URL Transform
 - Describe what the Rewrite feature of NetScaler does and explain how it works.
 - Discuss the functionality of Responder policies and how to configure them.
 - Apply the benefits of using URL Transformation.
- Content Switching
 - Explain Content Switching and how it works.
 - Discuss the importance of a Content-Switching VServer.
 - Distinguish what Content-Switching policies are and how to use them.
 - Understand what rule precedence is and the way it affects policies.
- Optimization
 - Implement traffic compression in a NetScaler environment.
 - Understand the benefits of caching in a NetScaler environment.
 - Utilize Front End Optimization to render the web browser more efficient.
- Global Server Load Balancing
 - Describe the Global Server Load Balancing feature.
 - Deploy Domain Name System to support GSLB.
 - Implement GSLB in a NetScaler environment.
 - Utilize Content Switching to implement GSLB.
 - Understand GSLB Metric Exchange Protocol and Monitoring.
 - Customize the GSLB Configuration.
- Clustering (Optional)
 - Understand the NetScaler Clustering feature.
 - Identify methods for managing and configuring a NetScaler Cluster.
 - Discuss options for troubleshooting the NetScaler Cluster.