



Netscaler Overview

The Citrix Certified Associate – Networking (CCA-N) certification is designed to validate the knowledge and skills required to administer enterprise surrounding consisting of NetScaler Gateway for secure remote access to desktops, applications and data.

Citrix NetScaler is an all-in-one web **application delivery controller** (ADC) that makes applications run up to five times faster, makes sure that applications are always available with its application load balancing capabilities and cuts web application ownership costs with server offloading.

About the training

- **Study Material:-** Online Instructor-led Training, Live lectures Recorded Videos, Online Lab Workbook, and Remote Virtual Lab access.
- **Duration:-** 1 Month

Requirements

Candidates are recommended to have basic knowledge of The OSI model; Networking, Network management and auditing protocols; Command-line interfaces; Basic routing and Layer 2 switching concepts; XenDesktop, XenApp, XenMobile web servers, and file servers etc.

What you will learn

- Understanding Functionality and capabilities of the NetScaler
- Exploring Basic NetScaler network architecture
- Exploring how SSL is used to safeguard the NetScaler
- How to configure authentication and authorization
- Explore how to integrate NetScaler Gateway with XenApp and XenDesktop
- Explore how to integrate Unified Gateway with additional resources
- Understanding tools and techniques to troubleshoot common NetScaler Gateway network and connectivity issues

About Instructor

The trainer of this course has 9+ years of industrial experience and is expert in technology. The trainer is also verified by UniNets itself. He has delivered vast and complex project on the same around the world.

Course Content

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

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)

NetScaler Platforms

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

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

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

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

Securing the NetScaler

- NetScaler Communication Ports
- Overview of AAA
- Authentication on the NetScaler
- NetScaler Users

- Command Policies
- Admin Partitions

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

Authentication and Authorization

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

Access Policies

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

End-User Access and Experience

- Connection Methods
- Endpoint Session Policies Settings
- Timeout Settings
- RDP Proxy
- Clientless Access
- VLAN Options

Gateway Services Load Balancing

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

Integrating NetScaler with XenApp and XenDesktop

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

Unified Gateway

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

Note: ***Most of the course topics are covered with hands-on lab exercises and others are theoretical

Thank You

Visit us

<https://www.uninets.com/>