

INFOSOFT IT SOLUTIONS

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Citrix Net scalar Course

Getting Started

- Introduction to the NetScaler System
- NetScaler Functionality
- NetScaler Overview
- Product Features
- NetScaler Operating System Overview
- Hardware Platforms
- Hardware Components
- nCore Configuration Architecture
- Deployment Scenarios
- Logging in to the NetScaler System
- NetScaler Licenses
- Performing an Upgrade

Basic Networking

- 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
- Network Address Translation (NAT)

High Availability

- High Availability Functionality
- High Availability Node Configuration
- Propagation and Synchronization
- High Availability Management

Securing NetScaler

NetScaler System Communication

- Access Control Lists
- Access Control List Configuration
- Detailed Access Control List Configuration
- Users, Groups, and Command Policies
- External Authentication for System Users
- Authentication, Authorization, and Auditing (AAA) Issues
- Authentication Troubleshooting

Basic Load Balancing

- Load Balancing Basics
- Entity Management
- Server Creation
- Services Configuration Overview

- Virtual Server Creation
- Binding Virtual Servers to Services or a Service Group
- Traffic Types
- Service Monitoring
- Persistence and Persistence Connections
- Load-Balancing Configuration Protection
- Advanced Services Options
- Maintaining of Client Connection for Multiple Client Requests
- Specified Source IP Addresses for Back-end Communication Using Network Profiles
- Disabling Services
- Graceful Shutdown of Services
- Removing Services
- Configuration Verification
- The Load-Balancing Visualizer
- Configuring Load Balancing for DataStream
- Link Load Balancing
- Configuration of Sessionless Load-Balancing Virtual Servers
- Load-Balancing Issues
- Use of Telnet or Monitors to Check Ports

SSL Offload

- SSL
- SSL Session Process
- Feature and Benefits
- Offload Performance
- Digital Certificates
- SSL Administration
- SSL Offload Overview

- Deployment Scenarios
- Citrix Recommendations for SSL
- SSL Renegotiation Attack
- SSL Troubleshooting
- Intermediate Certificate Not Linked

Global Server Load Balancing

- GSLB Deployment Methods
- GSLB Concepts
- GSLB Entities
- GSLB DNS Methods
- Metric Exchange Protocol
- Implementing GSLB
- Viewing and Configuring GSLB with the Visualizer
- Configuring Site-to-Site Communication
- RPC Node Password
- Encryption of Site Metrics Exchange
- Source IP Address for an RPC Node
- GSLB Site Communication Example
- Customizing the GSLB Configuration
- Changing the GSLB Method
- GSLB Persistence
- Using Dynamic Weights for Services
- Monitoring GSLB Services
- Binding Monitors to a GSLB Service
- Monitoring GSLB Sites
- Protecting the GSLB Setup Against Failure
- Responding with an Empty Address Record When DOWN

- Backup IP Address Configuration for a GSLB Domain
- Implementing GSLB Failover for Disaster Recovery

AppExpert Classic Policy Engine

- Policies Overview
- Expression Structures
- Content Filtering
- Content Filtering Actions
- Content Filtering Rules

AppExpert Default Policy Engine

- Understanding Packet-Processing Flow
- Understanding Policies
- Policy Process Evaluation Flow
- Identifying Default Policy Expressions
- Actions
- Understanding Bind Points
- Understanding Policy Labels
- Pattern Sets
- Typecasting
- Rewrite, Responder, and URL Transformation

Rewrite, Responder, and URL Transform

- Configuring Rewrite Policies and Actions
- Responder Actions
- Respond with
- Responder Action for Timeouts
- Responder Policies
- Responder HTML Page Imports
- Binding Policies

- URL Transformation
- URL Transformation Actions
- Binding of URL Transformations

Content Switching

- Introduction to Content Switching
- Understanding Content Switching
- Content Switching Based on Network Characteristics
- Content-Switching Virtual Servers and Load-Balancing Virtual Servers
- Configuring Content-Switching Virtual Servers
- Configure a Load-Balancing Setup for Content Switching
- Content-Switching Policies
- Binding Content-Switching Policies
- Content-Switching Rule Precedence Without Priority Specified
- Content-Switching Rule Precedence With Priority Specified
- Configuring Content Switching for DataStream

Optimizing Traffic

- Introduction to Compression
- Action Analytics
- AppExpert Templates
- Terminology
- Deploying NetScaler for an Application
- Application Example
- AppExpert Template Deployment

Clustering

- How Clustering Works
- Cluster Synchronization

- Cluster Connections
- Cluster Communication Interfaces
- Striped and Spotted IP Addresses
- Traffic Distribution
- Cluster and Node States
- NetScaler Cluster Set up
- NetScaler Cluster Traffic Distribution Mechanisms
- To Configure a Cluster Link Aggregation Group Statically
- Dynamic Configuration for a Cluster Link Aggregation Group
- NetScaler Cluster Management
- NetScaler Cluster Troubleshooting

Monitoring and Management

- Monitoring Needs
- NetScaler Log Management
- Simple Network Management Protocol
- To Configure SMNPv1 and SMNPv2
- AppFlow on the NetScaler System
- AppFlow Collectors and EdgeSight Monitoring
- AppFlow Actions and EdgeSight Monitoring Responder Policies
- Third-Party Collectors
- Network Traffic Capture using NSTRACE
- Troubleshooting with Filter Expressions
- Decoding SSL Traffic with Wireshark
- Display NetScaler System Information

Addendum: Citrix NetScaler 10.1 Essentials for SDX Appliances

- 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