



Administration de Citrix NetScaler 10

Déscription :

Cette formation aux concepts de base et avancés sur NetScaler 10 permet la mise en oeuvre, la configuration, la sécurisation, le contrôle, l'optimisation et le troubleshooting des systèmes Citrix NetScaler sur le réseau.

Ce cours est conçu pour les novices sur NetScaler. Il se base sur de nombreux labs de prise en main en environnement virtuel.

Cette formation porte sur NetScaler 10 mais les fonctionnalités et concepts fondamentaux étudiés sont semblables aux versions précédentes.

Objectifs

Être en mesure d'identifier l'étendue des fonctionnalités du NetScaler

- Expliquer l'architecture de base des NetScaler
- Obtenir, installer et gérer les licences NetScaler
- Expliquer l'utilisation du SSL pour sécuriser le NetScaler
- Mettre en oeuvre NetScaler TriScale Technology, incluant le Clustering
- Configurer le load balancing avancé et le GSLB dans les systèmes NetScaler
- Optimiser le système NetScaler pour le contrôle et la gestion du trafic
- Paramétrer les NetScaler pour fluidifier le trafic et les contenus spécifiques

- Contrôler et effectuer le reporting via les outils natifs de logging NetScaler

- Utiliser les outils et techniques recommandés pour effectuer le troubleshooting du réseau
- NetScaler et résoudre les problèmes de connectivité

Publics

Administrateur de Citrix NetScaler et administrateur réseau

Durée

5 jours

Pré-requis

Bonne connaissance système

Programme de cette formation

Getting Started

- NetScaler Overview
Introduction to the NetScaler System
NetScaler Functionality
NetScaler Operating System Overview
Hardware Platforms
Hardware Components
Planning a NetScaler Deployment
Deployment Scenarios
TriScale
NetScaler Configuration
Logging in to the NetScaler System
NetScaler Licenses

Basic Networking

- OSI Networking Model
NetScaler Architecture Overview
Packet Forwarding
NetScaler-Owned IP Addresses
NetScaler IP Address
Sending a Client IP Address to Servers
Virtual Local Area Networks
Network Address Translation

Basic Load Balancing

- Load Balancing Basics
Configure Basic Load Balancing
Services Configuration Overview
Virtual Servers Creation
Services Bound to a Virtual Server
Configuration Verification
Load-Balancing Methods
Service Weights
Session Persistence Methods
Service Level Monitors

High Availability

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

Policies and Expressions

- Policies Overview
Policy Basics
Basic Policy Components
About Policy Bindings
Policy Priorities
Hypertext Transfer Protocol

- Expression Structures
Wildcards
Context-Sensitive Fields
Simple Expressions
Compound Expressions
Advanced Policy Conversion

Content Switching

- Introduction to Content Switching

- Understanding Content Switching
Configure a Load-Balancing Setup for Content Switching
Content-Switching Policies
Content-Switching Rule Precedence Without Priority Specified
Content-Switching Rule Precedence With Priority Specified

Connection Tuning

- IPv6
- DNS and the NetScaler
- IP Routing
- Link Load Balancing
- SIP Load Balancing
- Custom Load
- Persistence and Persistence Connections
- Load-Balancing Configuration Protection
- Load-Balancing Setup Management
- Traffic Management

Global Server Load Balancing

- GSLB Deployment Methods
- GSLB Concepts
- GSLB DNS Methods
- Implementing Static GSLB
- Metric Exchange Protocol
- Configuring Site-to-Site Communication
- Customizing the GSLB Configuration
- GSLB Persistence
- Monitoring GSLB Services
- Protecting the GSLB Setup Against Failure
- Implementing GSLB Failover for Disaster Recovery

Clustering

- Features supported by 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
- NetScaler Cluster Management
- NetScaler Cluster Troubleshooting

Security and Authentication

- SSL
- SSL Administration

Digital Certificates

- Certificate Signing Request
- SSL Certificates
- Certificate Generation
- Certificate Key Pairs
- NetScaler System Communication
- Front-end SSL
- Front-end SSL_TCP

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- Securing Traffic
 - SSL_Bridge
 - SSL Termination Points
 - SSL Offload
 - Configuring SSL Offload
 - Advanced SSL Settings
 - Hardware Compliance
 - Authentication Setup
 - AAA for Traffic Management
 - SAML 2.0 Consumer Support
 - Enhanced NTLMv2 Support
 - Authentication Policy Creation
 - Single Sign-on Setup
 - LDAP Authentication
 - Detailed Access Control Lists Configuration
 - Extended Access Control Lists
 - Creation and Removal of Access Control Lists
 - SYN, SSL Renegotiation, TLS Man-in-the-Middle, and DoS Protection
 - Client Traffic Management Based on Traffic Rate

Rewrite, Responder, and URL Transformation

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

Optimizing Traffic

- Introduction to Compression
- Integrated Caching
- Reverse-Proxy-Cache Configuration
- Content Groups
- Cache Selectors and Policies
- Caching Static and Dynamic Content
- Request and Response Process Flow
- Cache Policies and Cache Expressions
- Action Analytics
- Evaluation Order
- Built-In Policies
- Graceful Cache Configuration Changes

- Cache Content Groups
- FlashCache
- Caching Management

- AppExpert Templates
Terminology
Methodology

Advanced Monitoring

- Monitoring Needs
- Simple Network Management Protocol
- Dashboard
- Citrix Command Center
- Reporting Tools
- NetScaler Log Management
- Audit Logging
- Configuring NetScaler for Audit Logging
- Configuring an Audit Logging Server
- Global Auditing Parameters
- Configuring Auditing Policies
- Monitoring Methods
- Reporting Tools
- Monitoring Needs
- Simple Network Management Protocol
- To Configure SMNPv1 and SMNPv2
- AppFlow on the NetScaler
- AppFlow Collectors and EdgeSight Monitoring
- AppFlow Actions and EdgeSight Monitoring
- Third-Party Collectors

Troubleshooting

- Troubleshooting Methodology
- Troubleshooting Resources
- Troubleshooting Tools
- Troubleshooting Network Issues
- Troubleshooting Hardware Issues
- Load Balancing Issues
- Authentication, Authorization, and Access (AAA) Issues
- SSL Troubleshooting
- SSL Offload Troubleshooting
- Policy Troubleshooting
- High Availability Troubleshooting