

CNS-301 Citrix NetScaler 11 Advanced Implementation

Course Details

Course Outline

1. Getting Started

- Introduction to the NetScaler System

2. Advanced Troubleshooting

- Troubleshooting Resources
- NetScaler System Overview
- nCore Configuration Architecture
- Built-In Tools
- Real-Time Performance Statistics
- Historical Statistics
- Third-Party Tools

3. Profiles and Policies

- Profiles
- Policies
- Engine Settings

4. Regular Expressions

- Forms of Regular Expressions
- Using Regular Expressions
- Metacharacters and Literal Characters
- Metacharacters
- Escapes
- Quantifiers
- Back referencing
- Look heads
- Regular Expression Scope

5. Attacks and Protections

- Security Checks
- HTTPS Web Applications
- Buffer Overflow Exploits and Protection
- Parameter Manipulation
- Server Misconfiguration

- Deny URL Protection
- SQL Injection
- HTML SQL Injection Protection
- Command Injection
- Field Format Protection
- Cookie Tampering and Poisoning
- Cookie Consistency Protection
- Form/Hidden Field Manipulation
- Form Field Consistency Protection
- Forceful Browsing
- Start URLs
- Backdoors and Misconfigurations
- URL Closure
- Identity Theft Attacks
- Credit Card Protection
- Protecting Credit Cards
- Errors Triggering Sensitive Information Leaks
- Safe Object Protection

6. Application Firewall Troubleshooting

- Application Firewall and
- Configuration Issues

7. Queuing and Connection Tuning

- HTTP Connections
- HTTP Connection Management and NetScaler
- HTTP Behavior
- TCP Buffering
- Surge Queue
- Surge Protection
- Priority Queuing
- HTTP Denial-of-Service Protection

8. Authentication, Authorization, and Auditing

- Users, Groups and Command Policies
- External Authentication for System Users
- AAA for Traffic Management
- Configuration

- Audit Logging

9. AppExpert Rate Limiting, HTTP Service Callout, and Policy-based Logging

- HTTP Callouts
- Configuring HTTP Callouts
- HTTP Callout Use Cases
- Configuring Rate Control
- Rate Control Policy Scenarios
- Policy-based Logging

10. Command Center

- Command Center Introduction
- Command Center Clients
- Server Requirements
- Port Setting Requirements
- Command Center Installation
- Command Center Functionality
- Command Center Administration

11. Insight Center

- Insight Center Overview
- AppFlow on the NetScaler System
- How Insight Center Collects AppFlow Data
- HDX Insight
- HTML Injection

12. NetScaler Web Logging

- NetScaler Web Logging Introduction
- NetScaler System Configuration
- NSWL Client Installation
- NSWL Client Configuration
- Troubleshooting Web Logging