Training: Citrix

# NS-301 NetScaler ADC 14.x Advanced Features (Security and Management)

## TRAINING GOALS:

Designed for experienced IT professionals, this course is best suited for individuals who will be deploying and/or managing Application Firewall, AAA for Application Traffic, and NetScaler Console (ADM) in their NetScaler environments.

You will leave this course with the skills required to deploy and manage NetScaler Web Application Firewall including types of web attacks, protections and signatures, the Adaptive learning engine, App Firewall policies and profiles, troubleshooting, and additional pertinent NetScaler security Features. You will be able to deploy AAA for Application Traffic with nFactor and understand concepts related to Login Schemas, Policy Labels, and customizations. You will also be able to deploy the NetScaler Console to manage a NetScaler environment.

Product Versions Covered: NetScaler VPX v14.1 and NetScaler Console v14.1

Learning Objectives and Certifications

- Configure NetScaler Web Application Firewall including policies, profiles, signatures and error pages
- Mitigate various types of attacks using the NetScaler Web Application Firewall
- Utilize additional security features of the NetScaler such as Bot Management, Rate Limiting, HTTP Callout, IP Reputation, and AppQoE.
- Deploy AAA for Application Traffic and nFactor to control access to resources behind the NetScaler.
- Use NetScaler console to monitor and manage a NetScaler environment

Target Audience

For administrators or engineers.

## CONSPECT:

- Module 1: Introduction to WAF
  - The Business Problem



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- Industry Standards
- Protection Methodologies
- Introducing NetScaler Web App Firewall

- Module 2: WAF Profiles, Policies, Monitoring
  - NetScaler Web App Firewall Policies, Profiles, and Learning
  - Logging and Reporting
  - Customizing Errors
  - Signatures and Comment Stripping
- Module 3: Implementing Protections
  - Security Checks and Data Flow
  - URL Protections
  - Top-Level Protections
  - Advanced Form Protection Checks
  - Rules and Adaptive Learning
  - Credit Card Check
  - Safe Object
- Module 4: Advanced Security Features
  - Bot Protection
  - API Protection
  - Responder Logging
  - Content Inspection
- Module 5: Security and Filtering
  - IP Reputation
  - HTTP Callout
  - IP Rate Limiting
  - Application Quality of Experience (AppQoE)
- Module 6: Intorduction to AAA and nFactor Overview
  - Authentication, Authorization, and Auditing
  - Intro to nFactor
  - Policy Label
  - Login Schemas
  - Authentication Policy and Action
  - Supported Protocol
- Module 7: nFactor Use Cases
  - Single Sign-On Overview
  - Traffic Policies



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- Security Assertion Markup Language (SAML)
- Certificate Authentication
- OAuth

- Module 8: AAA Customizations
  - Portal Theme Customizations
  - End User License Agreement (EULA)
  - Custom Error Messages
- Module 9: Intro to NetScaler Console
  - Introducing NetScaler Console
  - NetScaler Console Service
  - Getting Started with NetScaler Console
  - Initial Configuration
  - Instance Management
- Module 10: Managing and Monitoring NetScaler Console
  - User Management
  - Instance Management
  - Event Management
  - SSL Certificate Management
  - Unified Security Dashboard
  - Insights
- Module 11: Managing Apps and Configs using NetScaler Console
  - Stylebooks
  - Config Management
  - Configuration Audit
  - Actionable Tasks & Recommendations
- Module 12: Tuning and Performance Optimizations
  - Connection Profiles
  - SSL Profiles
  - Net Profiles
  - SSL Certificate Management
  - RPC Nodes

## REQUIREMENTS:

Strong foundational knowledge of NetScaler ADC administration and traffic management.



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## Difficulty level



## CERTIFICATE:

The participants will obtain certificates signed by Citrix (course completion).

## TRAINER:

Certified Citrix Instructor

## ADDITIONAL INFORMATION:

Recommended Training:

- CNS-225 Deploy and Manage NetScaler ADC with Traffic Management
- CNS-227 Deploy and Manage Citrix ADC 13.x with Citrix Gateway



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