

Citrix NetScaler 12.x Advanced Topics – Secure Web Applications

Certification: [CCP-N](#) | Course Length: [3 days](#) | Instructional Method: [Classroom or Virtual with hands-on labs](#)

Course Overview:

Netscaler AppFirewall protects web apps and sites from known and unknown attacks. This three-day course will teach you how to address application services security requirements with AppFirewall. After studying AppFirewall, you'll learn about many different types of web attacks and vulnerabilities, such as SQL injection and cookie tampering, and how to protect against them. The course also covers policies, profiles and expressions; monitoring, management and reporting; and troubleshooting techniques. Highlighted features include the Adaptive Learning Engine and NetScaler Secure Insight. This advanced course is designed for IT professionals with previous NetScaler experience.

What you'll learn:

- Identify common web attacks and vulnerabilities
- Understand PERL compatible regular expressions
- Understand how to operate the adaptive learning engine
- Configure AppFirewall to protect web applications
- Utilize NetScaler Secure Insight to monitor, manage, and report on Application Services security
- Troubleshoot AppFirewall

Is this course for you?

Designed for students with previous NetScaler experience, this course is best suited for individuals who will be deploying and/or managing Citrix NetScaler Application Firewall (AppFirewall) in Citrix NetScaler environments.

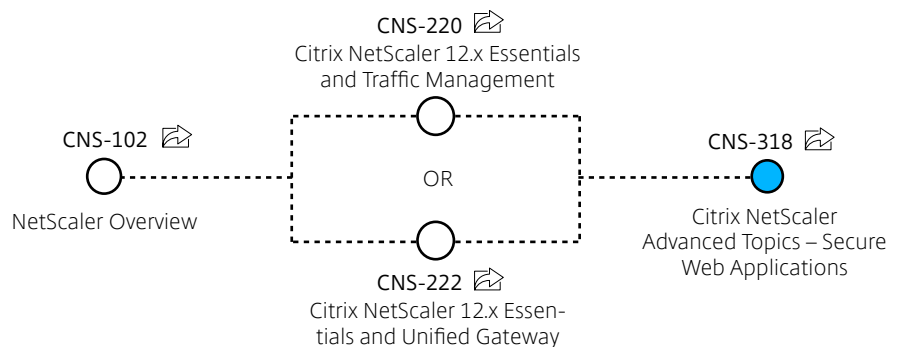
Prerequisite Knowledge:

Citrix recommends students prepare for this course by taking the following course/courses: CNS-102 NetScaler Overview, CNS-220 Citrix NetScaler 12.x Essentials and Traffic Management, or CNS-222 Citrix NetScaler 12.x Essentials and Unified Gateway.

Citrix Versions Covered:

NetScaler 11.x

Learning Path:



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Module 1: AppFirewall Overview

- AppFirewall solution Security Model
- Common Attacks Overview
- PCI-DSS Compliance

Module 2: AppFirewall Policies and Profiles

- Profiles
- Policies
- Engine Settings
- AppFirewall Learning

Module 3: Regular Expressions

- Forms of Regular Expressions
- Using Regular Expressions
- Meta/Literal Characters
- PCRE
- RegEx Tools
- Regular Expression Scope

Module 4: Attacks and Protections

- Data Flow with AppFirewall
- Security Checks
- AppFirewall Actions
- Adaptive Learning
- Signatures
- Cookie Protection
- Advanced Form Protection Checks
- URL Protections

Module 5: AppFirewall Monitoring and Troubleshooting

- AppFirewall and Web Applications
- Logging and Reporting
- Customizing Errors
- Troubleshooting
- NetScaler Security Insight

Module 6: Security and Filtering

- IP Reputation
- Rate Limiting
- AppQoE
- HTTP Callout