

CNS-320 Citrix ADC 12.x Advanced Concepts - Security, Management and Optimization

Course Overview

This is a 5-day class

Learn how to configure your Citrix networking environment to address application services security requirements with Citrix Web App Firewall; automate and manage network services for scale-out of application architectures with Citrix Application Delivery Management; and optimize Citrix ADC-managed application delivery traffic. This five-day course for experienced Citrix networking architects, engineers and administrators will teach you to deploy and manage Web App Firewall to protect web applications against different types of attacks. It will also give you a practical understanding of Citrix Application Delivery Management capabilities for centralized management of multiple Citrix ADC platforms, orchestration of changes, transaction reporting, infrastructure visualization and planning. Note: This course provides one free exam voucher upon completion of training.



Who Should Attend

Students interested in learning the skills required to deploy and manage Citrix Web App Firewall to secure application access in their Citrix Networking environment, as well as Citrix Application Delivery Management to administer a Citrix Networking environment, or optimize Citrix ADC - managed application delivery traffic. Specifically for administrators, implementers, engineers, and architects.

Course Objectives

- Identify common web attacks and vulnerabilities
- Write PERL compatible regular expressions
- Understand how to operate the adaptive learning engine
- Configure Citrix Web App Firewall to protect web applications
- Utilize ADC 12.x Secure Insight to monitor, manage, and report on Application Services security

Other Prerequisites

CNS-102 NetScaler Overview AND
CNS-220 Citrix NetScaler Essentials and Traffic Management
OR CNS-222 Citrix NetScaler Essentials and Unified Gateway

Course Outline

1 Citrix Web App Firewall Overview

Web App Firewall solution Security Model
Common Attacks Overview
PCI-DSS Compliance

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2 Citrix Web App Firewall Policies and Profiles

- Profiles
- Policies
- Engine Settings
- Citrix Web App Firewall Learning

3 Regular Expressions

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

4 Attacks and Protections

- Data Flow with Citrix Web App Firewall
- Security Checks
- Web App Firewall Actions
- Adaptive Learning
- Signatures
- Cookie Protection
- Advanced Form Protection Checks
- URL Protections

5 Web App Firewall Monitoring and Troubleshooting

- Citrix Web App Firewall and Web Applications
- Logging and Reporting
- Customizing Errors
- Troubleshooting
- ADC 12.x Security Insight

6 Security and Filtering

- IP Reputation
- Rate Limiting
- AppQoE
- HTTP Callout

7 Application Delivery Management Introduction

- An introduction to Application Delivery Management
- Application Delivery Management Deployment and Configuration
- Deploying Citrix Application Delivery Management in High Availability
- Citrix Application Delivery Management Instance Management

8 Managing and Monitoring Application Delivery Management

- Inventory Management
- User Management
- Analytics and Automation
- SSL Certificate Management

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9 Managing Citrix ADC Configuration

Application Management
StyleBooks
Configuration Management

10 Citrix ADC Web Logging

Understanding Web Traffic
Installing and configuring ADC 12.x Web Logging
Troubleshooting ADC 12.x Web Logging

11 ADC 12.x Integrated Caching

Introduction to Integrated Caching
Static and Dynamic Content
Request and Response Process Flow
Understanding Cache Policies
Identifying Content Group Settings

12 Citrix Web App Firewall Overview

Improving Content Delivery
Front-End Optimization Use Cases
Understanding Minification
CSS Optimizations

13 Citrix Web App Firewall Policies and Profiles

Connections on the Citrix ADC
Connection Profiles
Queuing on the Citrix ADC
Connection Tuning Practices