

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

## Course Overview

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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

### 2 Citrix Web App Firewall Policies and Profiles

Profiles  
Policies  
Engine Settings  
Citrix Web App Firewall Learning

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## 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

## 9 Managing Citrix ADC Configuration

- Application Management
- StyleBooks
- Configuration Management

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## 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