

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

Course Summary

Description

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.

Objectives

After taking this course, students will be able to:

- 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

Topics

- Citrix Web App Firewall Overview
- Citrix Web App Firewall Policies and Profiles
- Regular Expressions
- Attacks and Protections
- Web App Firewall Monitoring and Troubleshooting
- Security and Filtering
- Application Delivery Management Introduction
- Managing and Monitoring Application Delivery Management
- Managing Citrix ADC Configuration
- Citrix ADC Web Logging
- ADC 12.x Integrated Caching
- Citrix Web App Firewall Overview
- Citrix Web App Firewall Policies and Profiles

Audience

Built for IT Professionals with extensive App Delivery and Security and Citrix ADC experience. This course is built for IT Professionals who are responsible for defining the overall structure or architecture of a Citrix App Delivery and Security environment. This course encompasses advanced Citrix App Delivery and Security configurations and leading Citrix design principles.

Prerequisites

Citrix recommends students prepare for this course by taking CNS-225 Deploy and Manage Citrix ADC 13.x with Traffic Management or CNS-227: Deploy and Manage Citrix ADC 13.x with Citrix Gateway.

Duration

Five days

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Course Outline

- I. Citrix Web App Firewall Overview**
 - A. The Business Problem
 - B. Industry Standards
 - C. Protection Methodologies
 - D. Introducing Citrix Web App Firewall
- II. Citrix Web App Firewall Policies and Profiles**
 - A. Citrix Web App Firewall Policies
 - B. Citrix Web App Firewall Profiles
 - C. Citrix Web App Firewall Learning
 - D. Citrix Web App Firewall Engine Settings
- III. Implementing Citrix Web App Firewall Protections**
 - A. Security Checks and Data Flow
 - B. Rules and Adaptive Learning
 - C. Signatures and Comment Stripping
 - D. Top-Level Protections
- IV. Additional Citrix Web App Firewall Protections**
 - A. Cookie Consistency
 - B. Advanced Form Protection Checks
 - C. URL Protections
 - D. Protecting Sensitive Data
- V. Monitoring and Troubleshooting Citrix Web App Firewall**
 - A. Web App Firewall and Web Applications
 - B. Logging and Reporting
 - C. Customizing Errors
 - D. Troubleshooting
- VI. Security and Filtering**
 - A. Application level Quality of Experience (AppQoE)
 - B. IP Reputation
 - C. Rate Limiting
 - D. HTTP Callout
- VII. Authentication with Security Assertion Markup Language (SAML)**
 - A. What is SAML?
 - B. Configuring SAML on Citrix ADC
- VIII. Authentication with OAuth, OpenID, and nFactor**
 - A. OAuth and OpenID
 - B. Configuring OAuth on Citrix ADC
 - C. Multi-Factor Authentication with nFactor
 - D. Configuring nFactor
- IX. Application Delivery Management Introduction**
 - A. An introduction to Application Delivery Management
 - B. Application Delivery Management Deployment and Configuration
 - C. Deploying Citrix Application Delivery Management in High Availability
 - D. Citrix Application Delivery Management Instance Management
- X. Managing and Monitoring Application Delivery Management**
 - A. Inventory Management
 - B. User Management
 - C. Analytics and Automation
 - D. SSL Certificate Management
- XI. Managing Citrix ADC Configuration**
 - A. Application Management
 - B. StyleBooks
 - C. Configuration Management
- XII. Citrix ADC Web Logging**
 - A. Understanding Web Traffic
 - B. Installing and configuring ADC 12.x Web Logging
 - C. Troubleshooting ADC 12.x Web Logging