COURSE OUTLINE

Course Code: CNS-320

Course Name: Citrix ADC 12.x Advanced Concepts - Security, Management and Optimization

DURATION	SKILL LEVEL	DELIVERY METHOD	TRAINING CREDITS	TECHNOLOGY
5 day	Intermediate	In class / VILT	N/A	Citrix

Course Overview

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.

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Prerequisites

Citrix recommends students prepare for this course by taking the
following course/courses:
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

Target 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.

Topics

Module 1: Citrix Web App Firewall Overview

• The Business Problem
• Industry Standards
• Protection Methodologies
• Introducing Citrix Web App Firewall

Module 2: Citrix Web App Firewall Profiles

and Policies

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

Module 3: Implementing Citrix Web App

Firewall Protections

• Security Checks and Data Flow
• Rules and Adaptive Learning
• Signatures and Comment Stripping
• Top-Level Protections

Module 4: Additional Citrix Web App

Firewall Protections

• Cookie Consistency
• Advanced Form Protection Checks
• URL Protections
• Protecting Sensitive Data

Module 5: Monitoring and Troubleshooting

Citrix

Web App Firewall

• Web App Firewall and Web Applications

• Logging and Reporting
• Customizing Errors
• Troubleshooting

Module 6: Security and Filtering

• Application level Quality of Experience (AppQoE)
• IP Reputation
• Rate Limiting
• HTTP Callout

Module 7: Authentication with Security

Assertion

Markup Language (SAML)

• What is SAML?
• Configuring SAML on Citrix ADC

Module 8: Authentication with OAuth,

OpenID,

and nFactor

• OAuth and OpenID
• Configuring OAuth on Citrix ADC
• Multi-Factor Authentication with nFactor
• Configuring nFactor

Module 9: 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

Module 10: Managing and Monitoring Application

Delivery Management

• Inventory Management

• User Management

• Analytics and Automation

• SSL Certificate Management

Module 11: Managing Citrix ADC

Configuration

• Application Management

• StyleBooks

• Configuration Management

Module 12: Citrix ADC Web Logging

• Understanding Web Traffic

• Installing and configuring ADC 12.x Web Logging

• Troubleshooting ADC 12.x Web Logging

Module 13: Integrated Caching

• Introduction to Integrated Caching

• Static and Dynamic Content

• Request and Response Process Flow

• Understanding Cache Policies

• Identifying Content Group Settings

Module 14: Front End Optimization

• Improving Content Delivery

• Front-End Optimization Use Cases

• Understanding Minification

• CSS Optimizations

Module 15: Tuning and Optimization

• Connections on the Citrix ADC

• Connection Profiles

• Queuing on the Citrix ADC

• Connection Tuning Practices

Exams and Certifications:

CCP-AppDS C

Follow on Course:

CNS-225 or CNS-227

CNS-320

CNS-420