COURSE OVERVIEW

Course Name:
(CNS-320) Citrix ADC 12.x Advanced Concepts – Security, Management and Optimization

COURSE DURATION: 5 Days

Gauteng:
3rd Floor, 34 Whitely Road
Melrose Arch
Johannesburg
2196

Gauteng:
192 on Bram
192 Bram Fischer Drive
Ferndale, Randburg
Johannesburg
2160

Cape Town:
3rd Floor, Thomas Pattullo Building
19 Jan Smuts St
Cape Town
8000

Durban:
9 Mountview Close
Broadlands
Mount Edgecombe
Durban
4302

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INTRODUCTION

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.

DELIVERY METHOD

Our courses have flexible delivery options:
- In-person classroom training at the Impactful training facilities
  - Johannesburg, Durban, Cape Town
- Virtual instructor-led training
- Nationally: on-site at the client

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INTENDED 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 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

LEARNING 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.

COURSE CONTENT

At course completion, students will have the skills and knowledge to:

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

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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

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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

LEARNING PATH

CNS-225
Deploy and Manage Citrix ADC
13.x with Traffic Management

1 OR .

CNS-227
Deploy and Manage Citrix ADC
13.x with Citrix Gateway

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

3 **CNS-420**
Citrix App Delivery and
Security Assessment,
Design, and Advanced
Configuration

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