Course Outline

Securing Citrix Workspace Solutions CTX-272

Course Summary

Description

Learn to secure your Citrix Workspace deployments with this two-day course that covers Citrix Virtual Apps and Desktops. You'll learn how to secure Virtual Apps and Desktops traffic, getting an understanding of when and where to secure traffic between Virtual Apps and Desktops components, and advanced authentication implementations covering multi-factor authentication, Smart Card, SAML, and FAS. Additionally, you'll explore how to protect your applications against vulnerabilities, Citrix Cloud security leading practices as well as operating system hardening, hypervisor security, and monitoring and operations Citrix recommended practices.

Objectives

After taking this course, students will be able to:

- Learn how to secure Citrix traffic between components
- Understand Citrix authentication and authorization workflows with multifactor authentication
- Identify methods for desktop and application hardening with registry and policy lockdowns
- Learn to optimize monitoring and operations with Citrix leading security practices

Topics

- Securing Traffic in a Citrix Virtual Apps and Desktop Environment
- Implementing Advanced Authentication Methods for Virtual Apps and Desktops
- Improving App and Data Security
- Implementing Virtual Apps and Desktop Operating System Hardening
- Hypervisor Security
- Monitoring and Operations

Audience

This course is built for IT Professionals familiar with Citrix Virtual Apps and Desktops. Potential students include: administrators, engineers, and architects.

Prerequisites

Before taking this course, Citrix recommends students have basic understanding, and hands-on experience with installing and configuring Citrix Virtual Apps and Desktops.

Recommended courses, or equivalent field experience, include knowledge of the topics covered in CXD-210 Citrix Virtual Apps and Desktops 7.1x (PT15288) and CXD-250 Moving to the Citrix Virtual Apps and Desktops (PT15332).

Duration

Two days

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I. Securing Traffic in a Citrix Virtual Apps and Desktop Environment

A. Secure Network Zones
B. Citrix Gateway
C. StoreFront Security
D. XML and STA Security
E. TLS to VDA Encryption
F. Supporting Infrastructure Security
G. Citrix Cloud Security

II. Implementing Advanced Authentication Methods for Virtual Apps and Desktops

A. Windows Based Authentication
B. Pass-through Authentication
C. Multi-Factor Authentication
D. Smart-card Authentication
E. Federated Identify
F. Citrix Cloud Authentication

III. Improving App and Data Security

A. Introduction to Application Security
B. Prevent Jailbreak Attacks
C. Remove Undesired Windows and Citrix Functionality
D. Application and Web Browser Hardening
E. Restrict Access to Internal Tools
F. Minimize the Impact of Attacks

IV. Implementing Virtual Apps and Desktop Operating System Hardening

A. GPOs and Citrix Policies
B. Lockdowns and Citrix ADC SmartControl
C. Registry Edits and Third-Party Tools
D. Workspace Environment Manager
E. Image Management

V. Hypervisor Security

A. Delivery Controller to Hypervisor Connection
B. Hypervisor Security Leading Practices
C. Citrix Hypervisor Security

VI. Monitoring and Operations

A. Role Based Access Control
B. Logging and Auditing
C. Service Account Privileges
D. Antivirus

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