Authorized Training Course Description

CTX-307: Securing the Citrix Platform

4-day ILT/vILT

Includes labs

Advanced Citrix Security Features and Skills

For administrators, engineers, and architects

Description

Designed for experienced IT Professionals, this course focuses on products and components of Citrix Platform Enterprise that address security and access control features, along with configuring secure infrastructure communication. The course begins with using Secure Private Access with Chrome Enterprise Premium integration to provide and manage access to corporate web apps, while showing the range of setup, cloud integration features, and resource access controls as part of the ZTNA solution. For CVAD, this course provides updated and comprehensive summary of secure communication requirements from advanced authentication, securing communication between infrastructure components, and the range of secure HDX and VDA communications. Endpoint and VDA security are then discussed using deviceTRUST for endpoint and VDA-based scans, with reporting, and resource access control. Finally, endpoint security and management using eLux and Scout Enterprise Management Suite. Through a combination of technical discussion, and detailed lab exercises, students learn key component architectures, certificate and encryption requirements, advanced authentication controls, browser-based protections, endpoint security and a range of features to manage those same endpoints and resource availability.

Product Versions Covered: Citrix Secure Private Access and Chrome Enterprise Premium, Citrix Virtual Apps and Desktops 7 (2507 LTSR), deviceTrust, eLux/Unicon 2603 with ELIAS 18.

Learning Objectives

- Configure secure application access using Citrix Secure Private Access, Chrome Enterprise Premium, and contextual endpoint controls.
- Secure Citrix infrastructure, authentication, and component communications using certificates, TLS, and advanced authentication technologies.
- Apply Citrix and Microsoft security policies to protect HDX sessions, user access, and resources.
- Configure and manage secure endpoints with deviceTRUST, eLux, and Scout Enterprise Management Suite.

Prerequisite Knowledge

Strong foundational knowledge of:
Network, system, and application security. Working knowledge of Citrix Virtual Apps and Desktops administration, including Controllers, StoreFront, VDAs, Citrix Workspace App, and basic policy configuration.

Recommended Next Training

CTX-306: Citrix Platform Enterprise Deployment
CTX-308: Citrix Platform Monitoring and Troubleshooting
NS-301: NetScaler ADC 14.x Advanced Features (Security and Management)

Course Outline

Module 1: Citrix Secure Private Access

- Citrix Secure Private Access
- Connector Appliance for Cloud Services
- Add and Manage Applications
- Configure access policies
- Single Sign-On
- Device Posture
- Remote Browser Isolation

Module 2: Secure Private Access with Google Chrome Enterprise Premium

- Google Enterprise Premium and Google Cloud
- Integrating SPA with Chrome Enterprise
- Managed Chrome Enterprise
- Enterprise Trust and Private Applications
- Data Loss Prevention
- Device Posture and Contest-Aware Access
- Browser and Access Security Controls
- Validation and Testing

Module 3: deviceTRUST

- Intro to deviceTRUST
- Installation of deviceTRUST Components
- deviceTRUST Templates
- deviceTRUST Settings
- deviceTRUST Contexts
- deviceTRUST Actions

Module 4: Secure Infrastructure Communications

- Architecture and Secure Communications
- Secure Infrastructure: Controllers and StoreFront
- Securing Web Studio, Director, and License Server
- VDA Registration with Security Keys

Module 5: Advanced Authentication Methods

- Multi-factor Authentication - RADIUS and One-Time Passwords (OTP)
- Multi-factor Authentication – Smart Card Authentication
- Federated Authentication

Module 6: Secure Client Communication/HDX Connectivity

- Adaptive Transport
- Securing ICA Traffic
- HDX Direct
- TLS to VDA Encryption

Module 7: Secure User Access to Resources

- GPOs and Citrix Policies
- Secure Default Settings and Virtual Channel Allow
- Smart Access and Smart Control

Module 8: Unicon/eLux Config and Management

- Introduction to Citrix Unicon Platform
- Deep Dive into eLux OS Architecture
- Scout Enterprise Management Suite
- ELIAS
- Deploying eLux OS

Module 9: Unicon/eLux Deployment Use Cases

- eLux Desktop
- Boot to App
- Boot to VDI
- Kiosk Mode