

Securing Citrix Virtualization Solutions

Certification: [Citrix Security Certified](#) | Course Length: [2 days](#) | Instructional Method: [Classroom or Virtual with hands-on labs](#)

Course Overview:

Learn to secure your virtualization deployments with this two-day course that covers XenApp and XenDesktop. You'll learn how to secure XenApp and XenDesktop traffic, getting an understanding of when and where to secure traffic between XenApp and XenDesktop 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.

What you'll learn:

- 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

Is this course for you?

Built for IT Professionals familiar with XenApp and XenDesktop. Potential students include: administrators, engineers, and architects

Prerequisite Knowledge:

Citrix recommends students have basic understanding, and hands-on experience with installing and configuring XenApp and XenDesktop. Recommended courses, or equivalent field experience, include knowledge of the topics covered in:

- **CXD-210** XenApp and XenDesktop 7.1x Administration
- **CXD-250** Moving to XenApp and XenDesktop Service on Citrix Cloud

Citrix Technologies Covered:

- XenApp
- XenDesktop 7.13

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Module 1: Securing Traffic in a XenApp and XenDesktop Environment

- Secure Network Zones
- NetScaler Gateway
- StoreFront Security
- XML and STA Security
- TLS to VDA Encryption
- Supporting Infrastructure Security
- Citrix Cloud Security

Module 2: Implementing Advanced Authentication Methods for XenApp and XenDesktop

- Windows Based Authentication
- Pass-through Authentication
- Multi-Factor Authentication
- Smart-card Authentication
- Federated Identify
- Citrix Cloud Authentication

Module 3: Improving App and Data Security

- Secure Network Zones
- NetScaler Gateway
- StoreFront Security
- XML and STA Security
- TLS to VDA Encryption
- Supporting Infrastructure Security
- Citrix Cloud Security

Module 4: Implementing XenApp/XenDesktop Operating System Hardening

- GPOs and Citrix Policies
- Lockdowns and NetScaler SmartControl
- Registry Edits and Third-Party Tools
- Workspace Environment Manager
- Image Management

Module 5: Hypervisor Security

- Delivery Controller to Hypervisor Connection
- Hypervisor Security Leading Practices
- XenServer Security

Module 6: Monitoring and Operations

- Role Based Access Control
- Logging and Auditing
- Service Account Privileges
- Antivirus