802.1X - INTRODUCTION TO 802.1X OPERATIONS FOR CISCO SECURITY PROFESSIONALS

Course Code: 5778

Gain foundational knowledge of the features and functions of IEEE 802.1X protocol for Cisco ISE configuration.

In this course, you will discover the capabilities and functions of the IEEE 802.1X protocol and learn to configure the Cisco Identity Services Engine (ISE) for 802.1X operation. You will be introduced to the architecture, components, and features of an identity-based network designed around the IEEE 802.1X and RADIUS protocols. You will receive hands-on training configuring a network for 802.1X-based network services using the Cisco ISE, Cisco Catalyst switches, and Cisco wireless products.

What You’ll Learn

• Identity-based networking concepts and components
• Components and processes of port-based authentication
• 802.1X components and their interrelation at a high level
• Requirements and options for non-supplicant devices
• Position individual components of an 802.1X network and the compatibilities

Who Needs to Attend

• Cisco partner sales engineers and field engineers supporting customers with 802.1X solutions
• Cisco channel partner sales engineers and field engineers looking to meet the education requirements to attain ATP authorization to sell Cisco ISE
• Security architects, design engineers, and others seeking hands-on experience with Cisco TrustSec 802.1X deployments with Cisco ISE
• Field engineers preparing for the Introduction to 802.1X Operations for Cisco Security Professionals Exam (650-472 S802DT1X)

Prerequisites

• Knowledge of Microsoft Windows Server 2008 Active Directory
• Knowledge of Cisco Wireless LAN Controllers and Lightweight Access Points
• Knowledge of basic command-line configuration of Cisco Catalyst switches
• CCNA Security
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CLASSROOM LIVE

$4,165 CAD
3 days

Classroom Live Outline

1. Cisco TrustSec
   • Surveying Cisco TrustSec
   • Surveying Cisco TrustSec Architecture Components

2. Port-Based Authentication
   • Surveying the IEEE 802.1X Standard
   • Surveying 802.1X and EAP
   • Role of RADIUS in EAP Communications

3. Configure Devices for 802.1X Operation
   • 802.1X Components and Topologies
   • Configuring Cisco ISE for 802.1X
   • Configuring Network Devices for 802.1X
   • Configuring Supplicants for 802.1X Operation

4. Configure Guest Access
   • Configuring Cisco TrustSec for Non-Supplicant Devices
   • Configuring Cisco WebAuth for Non-Supplicant Devices

5. Design Cisco TrustSec Networks with Cisco ISE and 802.1X
   • Component Capabilities with 802.1X
   • 802.1X Design Considerations Impacting Implementation
   • Scalable 802.1X Architectures

Classroom Live Labs

Lab 1-0: Access the Lab Equipment
Lab 1-1: Configure Cisco ISE, Switch, WLC, and Clients
Lab 2-1: Configure Authentication Using Web Authentication
Lab 3-1: Design an End-to-End High-Level Cisco TrustSec Network with Cisco ISE and 802.1X
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VIRTUAL CLASSROOM LIVE $3,894 CAD 3 days

Virtual Classroom Live Outline

1. Cisco TrustSec
   - Surveying Cisco TrustSec
   - Surveying Cisco TrustSec Architecture Components

2. Port-Based Authentication
   - Surveying the IEEE 802.1X Standard
   - Surveying 802.1X and EAP
   - Role of RADIUS in EAP Communications

3. Configure Devices for 802.1X Operation
   - 802.1X Components and Topologies
   - Configuring Cisco ISE for 802.1X
   - Configuring Network Devices for 802.1X
   - Configuring Supplicants for 802.1X Operation

4. Configure Guest Access
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PRIVATE GROUP TRAINING

3 days

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