FIREFLY

CISCO PARTNER Platinum Learning

Introduction to 802.1X Operations for Cisco Security Professionals

DURATION: 3 DAYS | **PRICE:** USD 2635 | **CLCs:** 27 | **CE:** 12

COURSE CODE: 802.1X | **FORMAT:** Lecture & Lab

COURSE DESCRIPTION

The Introduction to 802.1X Operations for Cisco Security Professionals (802.1X) training shows you how to configure and prepare to deploy Cisco® Identity-Based Networking Services (IBNS) solutions based on Cisco Catalyst switches, Cisco 9800 LAN Controllers, and Cisco Meraki deployments. You will learn the fundamentals of the 802.1X protocol and configuration, Cisco IBNS, configuring access for non-supplicant devices, architectural components, and considerations with 802.1X.

HOW YOU'LL BENEFIT

This training will help you:

- Gain in-depth knowledge of 802.1X protocol fundamentals, configuration, and integration within Cisco environments
- to configure 802.1X on Cisco Catalyst switches, Cisco Wireless LAN Controllers, and Meraki devices through real-world labs
- Understand Cisco IBNS operations and how 802.1X functions as a foundational element for secure network access
- Acquire the ability to integrate non-supplicant devices (devices without native 802.1X support) using MAC Authentication Bypass (MAB) and guest services
- Compare and select the most appropriate Extensible Authentication Protocol (EAP) methods for your organization's deployment needs
- Learn best practices for designing 802.1X-enabled networks and troubleshooting IBNS deployments to ensure reliable, secure access
- Earn 12 CE credits toward recertification

WHO SHOULD ENROLL

- Security Administrators
- Security Consultants
- Network Administrators
- System Engineers
- Technical Support Personnel
- Channel Partners and Resellers

Introduction to 802.1X Operations for Cisco Security Professionals • 802.1X

COURSE OBJECTIVES

• Identify Cisco IBNS operation and how 802.1X functions as part of the IBNS solution
• Compare the different types of EAP authentication to select the best method for a solution deployment
• Configure Cisco Catalyst switches for 802.1X access
• Configure Cisco Wireless LAN Controllers for 802.1X access
• Configure Meraki devices for 802.1X access
• Apply MAB and guest services to integrate devices without direct 802.1X support to the network
• Explain network design considerations and troubleshooting for Cisco IBNS

COURSE PREREQUISITES

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

• Basic routing and switching knowledge

These skills can be found in the following Cisco Learning Offering:

• Implementing and Administering Cisco Solutions (CCNA)

COURSE OUTLINE

• Introduction to Cisco IBNS
• 802.1X EAP Authentication
• 802.1X on Cisco Catalyst Switches
• 802.1X on Cisco Wireless LAN Controllers
• 802.1X on Meraki Devices
• Network Access for Non-Supplicant Devices
• Design Considerations and Troubleshooting for Cisco IBNS Networks

LAB OUTLINE

• Configure an 8021.X Supplicant for Tunneled EAP (TEAP)
• Configure Cisco Catalyst Switch for IEEE 802.1X
• 802.1X Configuration on Cisco Wireless LAN Controllers
• 802.1X Configuration on Meraki Devices
• Configure MAC Authentication Bypass on Cisco Network Devices
• Troubleshoot Cisco IBNS Networks

Instructor Led Training

To view the schedule and secure your site

SIGN UP HERE