



Introduction to 802.1X Operations for Cisco Security Professionals

What you'll learn in this course

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-suppliant devices, architectural components, and considerations with 802.1X.

This training also earns you 18 Continuing Education (CE) credits toward recertification.

Course duration

- Instructor-led training: 3 days in the classroom
- Virtual instructor-led training: 3 days of web-based classes

Who should enroll

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

How to enroll

To enroll in the 802.1X course or explore our larger catalog of courses on Cisco Digital Learning, contact us at training@fastlane-mea.com

Technology areas

Security

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

- Basic routing and switching knowledge
- 802.1X on Cisco Catalyst Switches
- 802.1X on Cisco Wireless LAN Controllers
- Introduction to Cisco IBNS
- 802.1X EAP Authentication
- 802.1X on Meraki Devices
- Network Access for Non-Suppliant Devices
- Design Considerations and Troubleshooting for Cisco IBNS Networks

Lab Outline

- Configure an 802.1X 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