# 802.1X (INTRODUCTION TO 802.1X OPERATIONS FOR CISCO SECURITY PROFESSIONALS (802.1X) V2.0) 2.0

## Objetivo

We highlight the main objectives below: â□¢ Describe Cisco Identity-Based Networking Services (IBNS) for providing access control to corporate networks â□¢ Describe Extensible Authentication Protocol (EAP) authentication types and methods, and the role of RADIUS protocol in EAP communications; â□¢ Describe how to configure Cisco Catalyst switches, Cisco Wireless LAN Controllers (WLCs), and Cisco ISE for 802.1X operation; â□¢ Describe how to configure access for non-supplicant devices in an 802.1X deployment; â□¢ Describe how to plan and deploy Cisco IBNS Networks with Cisco ISE and 802.1X.

## PÃºblico Alvo

Professionals interested in knowing and implementing solutions using the 802.1X protocol in wired and wireless networks.

## PrÃ©-Requisitos

The knowledge and skills recommended before attending this course are: â□¢ Configuring Cisco wireless LAN controllers; â□¢ Basic command-line configuration of Cisco Catalyst switches; â□¢ Microsoft Windows Server Active Directory.

## Carga HorÃ¡ria

24 horas (3 dias).

## ConteÃºdo ProgramÃ¡tico

**Describing Cisco Identity-Based Networking Services**
Cisco IBNS Overview
Authentication, Authorization, and Accounting (AAA) Role in Cisco IBNS
Compare Cisco IBNS and Cisco ISE Solutions
Explore Cisco IBNS Architecture Components
Explore Cisco TrustSec

**Describing 802.1X EAP Authentication**
Explore the IEEE 802.1X Standard
Explore 802.1X and EAP
Explain EAP Methods
Describe the Role of RADIUS in EAP Communications

**Configuring Devices for 802.1X Operation**
Identify 802.1X Components and Topologies
Configure Cisco Catalyst Switch for 802.1X
Compare IBNS 1.0 and 2.0 on Cisco Catalyst Switch
Configure Cisco WLC for 802.1X
Configure Cisco ISE for 802.1X
Configure Supplicants for 802.1X Operation

**Configuring Access for Non-Supplicant Devices**
Configure Cisco IBNS for Non-Supplicant Devices
Explore IBNS 2.0 for Non-Supplicant Devices
Configure Cisco Central Web Authentication for Guests

**Designing Cisco IBNS Networks with Cisco ISE and 802.1X**
Cisco ISE Architectural Components
Introducing the Cisco ISE Bring Your Own Device (BYOD) Process
Identify Cisco ISE Deployment Options
Identify Component Compatibilities with 802.1X
Review 802.1X Design Considerations

**Lab outline**

Lab 1: Configure and Test 802.1X Operations