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INTRODUCTION TO 802.1X OPERATIONS FOR CISCO SECURITY PROFESSIONALS (802.1X) V1.0

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The Introduction to 802.1X Operations for Cisco Security Professionals (802.1X) V1.0 shows you how to configure and prepare to deploy Cisco® Identity-Based Networking Services (IBNS) solutions based on Cisco Identity Services Engine (ISE), Cisco Catalyst switches, and Cisco Wireless LAN Controllers. You will learn the fundamentals of the 802.1X protocol and configuration, Cisco IBNS, configuring access for non-supplicant devices, Cisco ISE deployment options, architectural components, considerations with 802.1X, and more. You will also gain hands-on experience configuring 802.1X–based network services using the Cisco Identity Services Engine and a Cisco Catalyst switch.

How you'll benefit

This class will help you:

- Learn about and practice configuring Cisco Identity-Based Networking Services solutions at your own pace
- Build your skills using Cisco Identity-Based Networking Services (IBNS) to secure network connectivity and resources

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- Security Architects
- Design Engineers
- Network Engineers
- Cisco Integrators and Partners

OUTLINE

Module 1: 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

Course Duration
3 days
Course Price
$3,495.00 or 20 CLCs
Methods of Delivery
- Instructor Led
- Virtual ILT
- On-Site

Module 2: 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

Module 3: Configure Devices for 802.1X Operation
- Identifying 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
- Configuring Supplicants for 802.1X Operation

Module 4: 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

Module 5: Design 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: Configuring Cisco ISE, Switch, WLC, and Clients**