

SISE - IMPLEMENTING AND CONFIGURING CISCO IDENTITY SERVICES ENGINE V4.1

Course Code: 4879

Learn to install, configure, and deploy ISE with enhanced labs written for ISE version 3.x Patch 2 (Exclusive)

You will learn how to configure fundamental elements of ISE and how to secure identity-based networks using 802.1X for both wired and wireless clients, using Windows 10 and Cisco IP-Phone endpoints. You will integrate the Cisco Virtual Wireless LAN Controller (vWLC) with advanced ISE features. You will also learn to use the following advanced features of Cisco ISE: Active Directory Integration, Policy Sets, EasyConnect, EAP-FAST with EAP Chaining, Guest Access, Profiler, BYOD, AnyConnect 4.x Posture Module for LAN and VPN compliance, TACACS+ Device Management, pxGrid and TrustSec Security Group Access.

This course is eligible for 40 Continuing Education Credits (ILT & ELT Modality).

What You'll Learn

In this course, you will learn about the Cisco Identity Services Engine (ISE)—a next-generation identity and access control policy platform that provides a single policy plane across the entire organization combining multiple services, including authentication, authorization, and accounting (AAA) using 802.1x, MAB, web authentication, posture, profiling, BYOD device on-boarding, guest services, MDM, and VPN access into a single context-aware identity-based platform. The training provides learners with the knowledge and skills to enforce security compliance for wired, wireless and VPN endpoints and enhance infrastructure security using the Cisco ISE.

This course is an intensive hands-on experience. With enhanced hands-on labs, you will cover all facets of Cisco ISE version 2.7.

In addition, you learn about the following:

- ISE deployment options including node types, personas, and licensing
- Install certificates into ISE using a Windows 2012 Certificate Authority (CA)

- Configure the Local and Active Directory Based Identity Store and use of Identity Source Sequences
- Configure AAA clients and network device groups
- Implement Policy Sets to streamline Authentication and Authorization in the organization
- Deploy EasyConnect as an alternative to 802.1X port-based authentication
- Implement 802.1X for wired and wireless networks using the AnyConnect 4.x NAM module, the latest dot1x commands on a catalyst switch, and version 8.4 of the vWLC
- Configure policies to allow MAC Authentication Bypass (MAB) of endpoints
- Use central web authentication (CWA) for redirection of legitimate domain users who need to register devices on the network using MAC addresses (BYOD device registration)
- Configure hotspot guest access, self-registration guest access, and sponsored guest access
- Configure profiler services in ISE and use newer probes available in IOS switch code 15.x as well as vWLC 8.4 code.
- Work with Profiling feeds, logical profiles, and building profiling conditions to match network endpoints
- Configure posture assessments using the new Cisco AnyConnect Secure Mobility 4.x posture module
- Configure Cisco ISE as a TACACS+ Server for Device Administration with Command Authorization
- Configure Cisco ISE to integrate with a 5500-X ASA and a Catalyst Switch for TrustSec and implement end-to-end Security Group Tagging (SGT) and Security Group Access Control (SGACL)
- Maintenance, best practices, and logging

Who Needs to Attend

- Network security engineers
- ISE administrators
- Wireless network security engineers
- Cisco integrators and partners
- Consulting systems engineers
- Technical solutions architects
- Integrators who install and implement the Cisco ISE version 2.7
- End users (Cisco customers) desiring the knowledge to install, configure, and deploy Cisco ISE 2.7
- Cisco channel partners and field engineers who need to meet the educational requirements to attain Authorized Technology Partner (ATP) authorization to sell and support the ISE product

Prerequisites

The learner is expected to have the following skills and knowledge before attending this course:

- Familiarity with the Cisco IOS® Software Command-Line Interface (CLI)
- Familiarity with Cisco AnyConnect® Secure Mobility Client
- Familiarity with Microsoft Windows operating systems
- Familiarity with 802.1X

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CLASSROOM LIVE

\$5,395 CAD

5 Day

Classroom Live Outline

Module 1: Introducing Cisco ISE Architecture and Deployment

- Cisco ISE Features and Services
- Cisco ISE Deployment Models

Module 2: Cisco ISE Policy Enforcement

- Introducing 802.1X and MAB Access: Wired and Wireless
- Introducing Cisco ISE Identity Management
- Configuring Cisco ISE Certificate Services
- Introducing Cisco ISE Policy Sets
- Configuring Cisco ISE Authentication and Authorization Policy
- Implementing Third-Party Network Access Device Support
- Overview of Cisco TrustSec using Cisco ISE
- Introducing Cisco ISE EasyConnect

Module 3: Web Auth and Guest Services

- Introducing Web Access with Cisco ISE
- Introducing Cisco ISE Guest Access Components
- Configuring Guest Access Settings
- Configuring Portals: Sponsors and Guests

Module 4: Cisco ISE Profiler

- Introducing Cisco ISE Profiler
- Configuring Cisco ISE Profiling

Module 5: Cisco ISE BYOD

- Introducing the Cisco ISE BYOD Process
- Describing BYOD Flow

- Configuring My Devices Portal Settings
- Configuring Certificates in BYOD Scenarios

Module 6: Cisco ISE Endpoint Compliance

- Introducing Cisco ISE Endpoint Compliance
- Configuring Client Posture Services and Provisioning in Cisco ISE

Module 7: Working with Network Access Devices

- Configuring TACACS+ for Cisco ISE Device Administration

Classroom Live Labs

1. ISE Familiarization and Certificate Usage
2. Active Directory and Identity Source Sequences
3. Policy Sets, Conditions Studio, and Network Devices
4. Passive Identity (Easy Connect)
5. 802.1X-Wired Networks - PEAP
6. 802.1X-Wired Networks - EAP-FAST
7. 802.1X-Wireless Networks
8. 802.1X-MAC Authentication Bypass (MAB)
9. Centralized Web Authentication (CWA)
10. Guest Access and Reports
11. Endpoint Profiling and Reports
12. BYOD and My Devices Portal
13. Posture Compliance and Reports
14. Compliance Based VPN Access (Optional, Exclusive)
15. TACACS+ Device Administration
16. Additional Guest Scenarios (Optional)
17. Posture Compliance Using the Temporal Agent (Optional, Exclusive)
18. pxGrid Integration with Firepower (Optional, Exclusive)
19. TrustSec Security Group Access (Optional, Exclusive)
20. ISE Distributed Deployment (Optional, Exclusive)
21. pxGrid Integration with Stealthwatch (Optional, Exclusive)

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VIRTUAL CLASSROOM LIVE

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Jan 26 - 30, 2026 | 8:30 AM - 4:30 PM EST

Feb 2 - 6, 2026 | 8:30 AM - 4:30 PM EST

Feb 9 - 13, 2026 | 11:30 AM - 7:30 PM EST

Mar 16 - 20, 2026 | 8:30 AM - 4:30 PM EDT

Apr 6 - 10, 2026 | 11:30 AM - 7:30 PM EDT

Apr 13 - 17, 2026 | 8:30 AM - 4:30 PM EDT

May 4 - 8, 2026 | 8:30 AM - 4:30 PM EDT

Jun 1 - 5, 2026 | 11:30 AM - 7:30 PM EDT

Jun 8 - 12, 2026 | 8:30 AM - 4:30 PM EDT

Jul 20 - 24, 2026 | 8:30 AM - 4:30 PM EDT

Aug 3 - 7, 2026 | 11:30 AM - 7:30 PM EDT

Aug 24 - 28, 2026 | 8:30 AM - 4:30 PM EDT

Sep 21 - 25, 2026 | 8:30 AM - 4:30 PM EDT

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ON-DEMAND

\$668 CAD

On-Demand Outline

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PRIVATE GROUP TRAINING

5 Day

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