Current Technologies
Computer Learning Centers

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IMPLEMENTING AND CONFIGURING CISCO IDENTITY SERVICES ENGINE (SISE) V4.0

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The Implementing and Configuring Cisco Identity Services Engine (SISE) v4.0 course teaches you to deploy and use Cisco® Identity Services Engine (ISE) v3.x, an identity and access control policy platform that simplifies the delivery of consistent, highly secure access control across wired, wireless, and VPN connections. This hands-on course provides you with the knowledge and skills to implement and apply Cisco ISE capabilities to support use cases for Zero Trust security posture. These use cases include tasks such as policy enforcement, profiling services, web authentication and guest access services, BYOD, endpoint compliance services, and Terminal Access Controller Access Control Server (TACACS+) device administration. Through hands-on practice via lab exercises, you will learn how to use Cisco ISE to gain visibility into what is happening in your network, streamline security policy management, and contribute to operational efficiency. This course helps you prepare to take the exam, Implementing and Configuring Cisco Identity Services Engine (300-715 SISE), which leads to CCNP® Security and the Cisco Certified Specialist – Security Identity Management Implementation certifications.

How you'll benefit

This class will help you:

- Develop and implement SASE architecture
- Understand application of ISE capabilities towards development of a Zero Trust approach
- Enable BYOD and guest access
- Centrally configure and manage posture, authentication, and authorization services in a single web-based GUI console
- Gain leading-edge career skills for high-demand job roles and responsibilities focused on enterprise security
- Earn 40 CE credits toward recertification

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

Course Duration

5 days

Course Price

$4,295.00 or 43 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

Who Should Attend

The primary audience for this course is as follows:

- Network Security Engineers
- Network Security Architects
- ISE Administrators
- Senior Security Operations Center (SOC) personnel responsible for Incidence Response
- Cisco Integrators and Partners

Prerequisites

To fully benefit from this course, you should have the following knowledge:

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

OUTLINE

Module 1: Introducing Cisco ISE Architecture

- Provides an overview of Cisco ISE architecture, core services, and how it integrates into network environments.

Module 2: Introducing Cisco ISE Deployment

- Covers Cisco ISE installation, licensing, and deployment models for scalable and secure access control.

Module 3: Introducing Cisco ISE Policy Enforcement Components

- Introduces key components such as authentication, authorization, and accounting used in enforcing access policies.

Module 4: Introducing Cisco ISE Policy Configuration

- Explains the creation and application of access policies using policy sets, conditions, and identity sources.

Module 5: Troubleshooting Cisco ISE Policy and Third-Party NAD Support

- Focuses on diagnosing and resolving issues with Cisco ISE policy enforcement and integration with third-party network access devices.

Module 6: Introducing Web Authentication and Guest Services

- Explores web-based authentication methods and guest access provisioning through Cisco ISE.

Module 7: Configuring Hotspots and Guest Portals

- Demonstrates how to set up guest access using hotspot and self-registration portals for secure temporary access.

Module 8: Introducing the Cisco ISE Profiler

- Explains how Cisco ISE identifies and classifies endpoints using the Profiler service.

Module 9: Introducing Profiling Best Practices and Reporting

- Covers optimization of profiling configurations and the use of ISE reports to monitor and audit network activity.

Module 10: Cisco ISE BYOD

- Introduces Bring Your Own Device (BYOD) onboarding workflows and secure device registration in Cisco ISE.

Module 11: Cisco ISE Endpoint Compliance Services

- Describes how ISE enforces endpoint compliance checks to ensure devices meet network access requirements.

Module 12: Configuring Client Posture Services and Compliance

- Covers the setup of posture policies and remediation actions for non-compliant clients.

Module 13: Working with Network Access Devices

- Reviews configuration and integration of switches, wireless controllers, and firewalls with Cisco ISE.

Module 14: Exploring Cisco TrustSec

- Explores the TrustSec solution, including security group tagging and scalable access control enforcement.

LAB OUTLINE

- **Lab 1: Configure Initial Cisco ISE Setup, and System Certificate Usage**
- **Lab 2: Integrate Cisco ISE with Active Directory**
- **Lab 3: Configure Cisco ISE Policy for MAC Authentication Bypass (MAB)**
- **Lab 4: Configure Cisco ISE Policy for 802.1X**
- **Lab 5: Configure Guest Access**
- **Lab 6: Configure Hotspot and Self-Registered Guest Access**
- **Lab 7: Configure Sponsor-Approved and Fully Sponsored Guest Access**
- **Lab 8: Create Guest Reports**
- **Lab 9: Configure Profiling**
- **Lab 10: Customize the Cisco ISE Profiling Configuration**
- **Lab 11: Create Cisco ISE Profiling Reports**
- **Lab 12: Configure BYOD**
- **Lab 13: Manage a Lost or Stolen BYOD Device**
- **Lab 14: Configure Cisco ISE Compliance Services**
- **Lab 15: Configure Client Provisioning**
- **Lab 16: Configure Posture Policies**
- **Lab 17: Test and Monitor Compliance-Based Access**
- **Lab 18: Configure Cisco ISE for Basic Device Administration**
- **Lab 19: Configure Cisco ISE Command Authorization**
- **Lab 20: Configure Cisco TrustSec**