Implementing and Configuring Cisco Identity Services Engine (SISE)

Description

The **Implementing and Configuring Cisco Identity Services Engine (SISE)** training 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 training 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, Bring Your Own Device (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 training prepares you for 300-715 SISE v1.1 exam. If passed, you earn the Cisco Certified Specialist – Security Identity Management Implementation certification and satisfy the concentration exam requirement for the Cisco Certified Network Professional (CCNP) Security certification. This training also earns you 40 Continuing Education (CE) credits toward recertification.

How you'll benefit

This training 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
- Prepare for the 300-715 SISE v1.1 exam
- Earn 40 CE credits toward recertification

Who should enroll

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

Technology areas

- Security

Objectives

- Describe the Cisco ISE
- Explain Cisco ISE deployment
- Describe Cisco ISE policy enforcement components
- Describe Cisco ISE policy configuration
- Troubleshoot Cisco ISE policy and third-party Network Access Device (NAD) support
- Configure guest access
- Configure hotspots and guest portals
- Describe the Cisco ISE profiler services
- Describe profiling best practices and reporting
- Configure a Cisco ISE BYOD solution
- Configure endpoint compliance
- Configure client posture services
- Configure Cisco ISE device administration
- Describe Cisco ISE TrustSec configurations

Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- 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

These skills can be found in the following Cisco Learning Offering:

- Implementing and Operating Cisco Security Core Technologies (SCOR)

Outline

- Introducing Cisco ISE Architecture
- Introducing Cisco ISE Deployment
- Introducing Cisco ISE Policy Enforcement Components
- Introducing Cisco ISE Policy Configuration
- Troubleshooting Cisco ISE Policy and Third-Party NAD Support
- Introducing Web Authentication and Guest Services
- Configuring Hotspots and Guest Portals

- Introducing the Cisco ISE Profiler
- Introducing Profiling Best Practices and Reporting
- Configuring Cisco ISE BYOD
- Introducing Cisco ISE Endpoint Compliance Services
- Configuring Client Posture Services and Compliance
- Working With Network Access Devices
- Exploring Cisco TrustSec

Lab Outline

- Configure Initial Cisco ISE Setup and System Certificate Usage
- Integrate Cisco ISE with Active Directory
- Configure Cisco ISE Policy for MAC Authentication Bypass (MAB)
- Configure Cisco ISE Policy for 802.1X
- Configure Guest Access
- Configure Hotspot and Self-Registered Guest Access
- Configure Sponsor-Approved and Fully Sponsored Guest Access
- Create Guest Reports
- Configure Profiling
- Customize the Cisco ISE Profiling Configuration
- Create Cisco ISE Profiling Reports
- Configure BYOD
- Manage a Lost or Stolen BYOD Device
- Configure Cisco ISE Compliance Services
- Configure Client Provisioning
- Configure Posture Policies
- Test and Monitor Compliance-Based Access
- Configure Cisco ISE for Basic Device Administration
- Configure Cisco ISE Command Authorization
- Configure Cisco TrustSec

What to expect on the exam

Implementing and Configuring Cisco Identity Services Engine (300-715 SISE) v1.1 is a 90-minute exam associated with the Cisco Certified Specialist – Security Identity Management Implementation certification and satisfies the concentration exam requirement for the CCNP Security certification.

This exam tests your knowledge of Cisco ISE, including:

- Architecture and deployment
- Policy enforcement
- Web Auth and guest services
- Profiler
- BYOD
- Endpoint compliance
- Network access device administration

Links

- [Cisco U. Learning Path](#)
- [Cisco Learning Network Store](#)
- [Cisco Learning Locator](#)