

# Implementing and Configuring Cisco Identity Services Engine (SISE)

## COURSE OVERVIEW

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, 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 Implementing and Configuring Cisco Identity Services Engine (300-715 SISE) exam, which leads to CCNP® Security and the Cisco Certified Specialist - Security Identity Management Implementation certifications.

## WHO WILL BENEFIT FROM THIS COURSE?

- 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

Recommended Cisco offerings that may help you meet these prerequisites:

- Cisco CCNP Security Certification training

## COURSE OBJECTIVES

After taking this course, you should be able to:

- Describe the Cisco Identity Services Engine (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

## COURSE 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
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