Learning Services
Cisco Training on Demand
Implementing Cisco Secure Access Solutions (SISAS)

Overview
Implementing Cisco® Secure Access Solutions (SISAS) Version 1.0 is a Cisco Training on Demand course. It provides you with foundational knowledge and the capabilities to implement and manage network access security by using a Cisco Identity Services Engine (ISE) appliance product solution. You gain experience with configuring various advanced Cisco security solutions for mitigating outside threats and securing devices connecting to the network. You also gain knowledge and hands-on experience, so you can deploy Cisco ISE and 802.1X secure network access.

Interested in purchasing this course in volume at discounts for your company? Contact ctod-sales@cisco.com.

Duration
The SISAS Training on Demand course is a self-paced course based on the 5-day instructor-led training version. It consists of 16 sections of instructor video and text totaling more than 8 hours of instruction along with interactive activities, 12 hands-on lab exercises, content review questions, and challenge questions.

Target Audience
The primary audiences for this course are those preparing for the 300-208 SISAS exam and network security engineers.
Objectives

After completing this course, you should be able to:

- Describe Cisco ISE architecture and access control capabilities
- Describe 802.1X architecture, implementation, and operation
- Describe commonly implemented Extensible Authentication Protocols (EAPs)
- Implement public key infrastructure (PKI) with ISE
- Understand the implementation of internal and external authentication databases
- Implement MAC authentication bypass
- Implement identity-based authorization policies
- Understand Cisco TrustSec® features
- Implement web authentication and guest access
- Implement ISE posture service
- Implement ISE profiling
- Describe Bring-Your-Own-Device (BYOD) requirements with ISE
- Troubleshoot ISE

Course Prerequisites

The knowledge and skills recommended before attending this course are:

- Cisco CCNA® certification
- Cisco CCNA Security certification
- Knowledge of Microsoft Windows operating system

Course Outline

- Course Introduction
- Section 1: Identity Services
- Section 2: 802.1X and EAP
- Section 3: Identity System Quick Start
- Section 4: Cisco ISE Overview
- Section 5: ISE PKI
- Section 6: Cisco ISE Authentication
- Section 7: Cisco ISE External Authentication
- Section 8: Certificate–Based User Authentication
- Section 9: Authorization
- Section 10: Cisco TrustSec and MACsec Features
- Section 11: Deploying WebAuth
- Section 12: Deploying Guest Service
- Section 13: Deploying Posture Service
Labs Outline

This course contains 12 hands-on lab exercises.

Figure 1. Topology for All Labs in Implementing Cisco Secure Access Solutions

The labs included in this course are:

- Discovery Lab 3.14: Bootstrap Identity System
- Discovery Lab 5.13: Enroll Cisco ISE in PKI
- Discovery Lab 6.16: Implement MAB and Internal Authentication
- Discovery Lab 7.16: Implement External Authentication
- Discovery Lab 8.12: Implement EAP-TLS
- Discovery Lab 9.17: Implement Authorization
- Discovery Lab 10.25: Implement Cisco TrustSec and MACsec Features
- Discovery Lab 11.19: Implement WebAuth for Employees
- Discovery Lab 12.19: Implement Guest Service
- Discovery Lab 13.22: Implement Posture Service
- Discovery Lab 14.23: Implement Profiler Service
- Discovery Lab 16.28: Troubleshoot Network Access Controls
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