

Cisco® Implementing Cisco® Secure Access Solutions (SISAS)

Course Overview

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This is a 5-day class

The student will gain hands-on experience with configuring various advanced Cisco security solutions for mitigating outside threats and securing devices connecting to the network. At the end of the course, students will be able to reduce the risk to their IT infrastructures and applications using Cisco's ISE appliance feature and provide operational support identity and network access control.



Who Should Attend

Network Security Engineers

Course Objectives

Understand Cisco Identity Services Engine architecture and access control capabilities. Understand 802.1X architecture, implementation and operation. Understand commonly implemented Extensible Authentication Protocols (EAP). Implement Public-Key Infrastructure with ISE. Understand the implement 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. Understand Bring Your Own Device (BYOD) with ISE. Troubleshoot ISE.

Other Prerequisites

Cisco Certified Network Associate (CCNA) certification
Cisco Certified Network Associate (CCNA) Security certification
Knowledge of Microsoft Windows operating system

Course Outline

1 Course Introduction

2 Lab Guide

3 Threat Mitigation through Identity Services

Lesson 1: Identity Services
Lesson 2: 802.1X and EAP
Lesson 3: Identity System Quick Start
Lesson 4: Module Summary

4 Cisco ISE Fundamentals

Lesson 1: Cisco ISE Overview
Lesson 2: Cisco ISE with PKI
Lesson 3: Cisco ISE Authentication
Lesson 4: Configuring Cisco ISE for External Authentication
Lesson 5: Module Summary

5 Advance Access Control

Lesson 1: Certificate-based User Authentication
Lesson 2: Authorization
Lesson 3: Security Group Access (SGA) and MACsec Implementation
Lesson 4: Module Summary



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6 Web Authentication and Guest Access

Lesson 1: Describe the Cisco Email Security Solutions

Lesson 2: Guest Access Services

Lesson 3: Summary

7 Endpoint Access Control

Lesson 1: Posture

Lesson 2: Profiler

Lesson 3: BYOD

Lesson 4: Summary

8 Troubleshooting Network Access Control

Lesson 1: Troubleshooting Network Access Control

Lesson 2: Summary