



TODD LAMMLE

Advanced Network Training

Cisco Identity Services Engine (ISE)

Course Objectives

Upon successful completion of this course, students will be able to meet these overall objectives:

- Describe Cisco ISE architecture, installation, and distributed deployment options
- Configure Network Access Devices (NADs), policy components, and basic authentication and authorization policies in Cisco ISE
- Implement Cisco ISE web authentication and guest services
- Deploy Cisco ISE profiling, posture, and client provisioning services
- Describe administration, monitoring, troubleshooting, and TrustSec SGA security
- Configure device administration using TACACS+ in Cisco ISE

Module 1: Introducing Cisco ISE Architecture and Deployment

- Lesson 1: Using Cisco ISE as a Network Access Policy Engine
- Lesson 2: Introducing Cisco ISE Deployment Models

Module 2: Cisco ISE Policy Enforcement

- Lesson 1: Introducing 802.1x and MAB Access: Wired and Wireless

- Lesson 2: Introducing Identity Management
- Lesson 3: Configuring Certificate Services
- Lesson 4: Introducing Cisco ISE Policy
- Lesson 5: Configuring Cisco ISE Policy Sets
- Lesson 6: Implementing Third-Party Network Access Device Support
- Lesson 7: Introducing Cisco TrustSec
- Lesson 8: Introducing EasyConnect

Module 3: Web Authentication and Guest Services

- Lesson 1: Introducing Web Access with Cisco ISE
- Lesson 2: Introducing ISE Guest Access Components
- Lesson 3: Configuring Guest Access Settings
- Lesson 4: Configuring Portals: Sponsors and Guests

Module 4: Cisco ISE Profiler

- Lesson 1: Introducing Cisco ISE Profiler
- Lesson 2: Configuring Cisco ISE Profiling

Module 5: Cisco ISE BYOD

- Lesson 1: Introducing the Cisco ISE BYOD Process
- Lesson 2: Describing BYOD Flow
- Lesson 3: Configuring My Devices Portal Settings
- Lesson 4: Configuring Certificates in BYOD Scenarios

Module 6: Cisco ISE Endpoint Compliance Services

- Lesson 1: Introducing Endpoint Compliance
- Lesson 2: Configuring Client Posture Services and Provisioning in Cisco ISE

Module 7: Cisco ISE with AMP and VPN-Based Services

- Lesson 1: Introducing VPN Access Using Cisco ISE
- Lesson 2: Configuring Cisco AMP for ISE

Module 8: Cisco ISE Integrated Solutions with APIs

- Lesson 1: Introducing Location-Based Authorization
- Lesson 2: Introducing Cisco ISE 2.x pxGrid

Module 9: Working with Network Access Devices

- Lesson 1: Configuring TACACS+ for Cisco ISE Device Administration

Module 10: Cisco ISE Design

- Lesson 1: Designing and Deployment Best Practices
- Lesson 2: Performing Cisco ISE Installation and Configuration Best Practices
- Lesson 3: Deploying Failover and High-Availability

Module 11: Configuring Third Party NAD Support

- Lesson 1: Configuring Third-Party NAD Support

Lab Outline

- Lab 1: Configure Initial Cisco ISE setup, GUI familiarization, system certificate usage
- Lab 2: Integrate Cisco ISE with Active Directory
- Lab 3: Configure Basic Policy on Cisco ISE
- Lab 4: Configure Conversion to Policy Sets
- Lab 5: Configure Access Policy for Easy Connect
- Lab 6: Configure Guest Access
- Lab 7: Configure Guest Access Operations
- 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: Blacklisting a Device
- Lab 14: Configure Compliance Services on Cisco ISE
- Lab 15: Configure Client Provisioning
- Lab 16: Configure Posture Policies
- Lab 17: Test and Monitor Compliance Based Access
- Lab 18: Test Compliance Policy
- Lab 19: Configure Cisco ISE for VPN Access
- Lab 20: Configure Threat-Centric NAC using Cisco AMP (Optional)
- Lab 21: Configure Cisco ISE pxGrid and Cisco WSA Integration
- Lab 22: Configure Cisco ISE for Basic Device Administration
- Lab 23: Configure TACACS+ Command Authorization