Implementing Cisco Identity Service Engine Secure Solutions (ISE), Version 1.0

Implementing Cisco Identity Service Engine Secure Solutions (ISE) is a course designed to provide students with hands-on lab configuration of the Cisco® Identity Services Engine running software version 1.0. The ISE platform takes the place of the Cisco ACS and NAC servers typically used in today’s identity-based networks. The students will implement 802.1X-based network services using Cisco Catalyst® and Cisco Nexus® switches and Cisco wireless products. The course also addresses solution design, sizing, resiliency, and platform troubleshooting.

Duration
Five days.

Target Audience
This course is primarily targeted toward partner field engineers (FEs) and secondarily sales engineers (SEs) who will need to be able to design, deploy, and troubleshoot the Cisco TrustSec® 2.0 architecture with a focus on the ISE platform.

Course Objectives
Upon completion of this course, you should be able to:

- Describe the Cisco TrustSec 2.0 solution architecture and deployment methodologies using the ISE platform
- Configure the ISE platform in a network that includes Microsoft Active Directory
- Configure the Cisco ISE software for wired and wireless 802.1X
- Deploy firewall-based VPN services using the Cisco ASA and Inline Posture
- Configure the ISE for classification and policy enforcement
- Deploy ISE-based profiling, posture, and guest services
- Troubleshoot user authentication and policy enforcement problems based on configuration error or network issue
- Create a low-level design for the ISE platform deployment methodology, scaling requirements, and platform resiliency
Course Prerequisites

Following are the target prerequisites for the course. These prerequisites might change based on any additional or modified requirements from the BU.

Required:

- CCNA® certification or equivalent level of experience with the configuration of Cisco routers and switches
- Introduction to 802.1x Operations for Cisco Security Professionals Version 1.0

Recommended:

- CCNP® certification or equivalent level of experience
- CCSP® certification or equivalent level of experience
- Base level of knowledge and understanding of the NAC appliance and Cisco ACS server version 5.X

To locate Cisco courses that cover the listed prerequisites, go to the Cisco Training & Events webpage at www.cisco.com/web/learning/index.html.

Course Outline

The course outline is as follows:

- Introducing the Cisco TrustSec 2.0 Solution and ISE Platform Architecture
- Installing the ISE Software
- Integrating the ISE into Microsoft Active Directory
- Introducing Redundancy and Scaling
- Using the ISE for Policy Enforcement
- Configuring the ISE for MAC Address Bypass (MAB)
- Configuring the ISE for Wired and Wireless 802.1X Authentication
- Deploying VPN-Based Services Using the Cisco ASA and Inline Posture
- Configuring Web Authentication Using the ISE
- Introducing ISE Guest Services
- Introducing ISE Profiling Services
- Introducing ISE Posture Services
- Creating a Low-Level Design for the ISE

Lab Outline

The lab outline is as follows:

- Lab 1: Lab Topology and Access
- Lab 2: Completing the Initial Software Configuration
- Lab 3: Integrating the ISE into Microsoft Active Directory
- Lab 4: Configuring the ISE for MAB
- Lab 5: Configuring Cisco ISE for Wired 802.1X Authentication
- Lab 6: Configuring Cisco ISE for Wireless 802.1X Authentication
- Lab 7: Configuring Web Authentication and Policy Enforcement
Lab 8: Creating Guest Users and Guest User Policies in the Sponsor Port
Lab 9: Configuring the ISE for Profiling Services
Lab 10: Configuring the ISE for Posture Services
Lab 11: Creating a Low-Level Design for the ISE (Case Study)

Lab Topology
Figure 1 shows the lab topology that is used in this course.

Figure 1. Lab Topology for the ISE Training

TrustSec Lab Pod Topology

Registration Information
For more information about schedules and registration for this course, contact aeskt_registration@cisco.com.

For More Information
For more information about Advanced Services Education course offerings, including custom training options, as well as Advanced Services Curriculum Planning Services and the Advanced Services Technical Knowledge Library (TKL), refer to the Advanced Services Education website at www.cisco.com/go/ase.
Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

CCDE, CCENT, Cisco Eos, Cisco StadiumVision, the Cisco logo, Cisco IOS, Cisco Networking Academy, Cisco Prime, Cisco Raft, Cisco Track, Cisco万象+, Cisco Package Center, Cisco Lumin, the Cisco System Capital logo, Collaborate Without Limitation, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Event Center, Fast Step, Follow Me Browsing, FormShare, Gigamon, HomeLink, Internet Quotient, IOS, iPhone, IQ Expertise, the IQ logo, IQ Net Readiness Scorecard, iQuick Study, IronPort, the IronPort logo, LightStream, Linksys, MediaTone, MeetingPlace, MGX, Networks, Networking Academy, Network Registrar, PowerPlex, ProConnect, ProShare, SenderBase, SMARTnet, Spectrum Expert, StackWise, The Fastest Way to Increase Your Internet Quotient, TransPath, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0803R)