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Preparing the ISE for SD-Access (for Customers) (CUST-SDA-ISE) v1.0

Overview

The Preparing the ISE for SD-Access (for Customers) (CUST-SDA-ISE) v1.0 Cisco® Training on Demand series provides a focused look at Cisco Identity Services Engine (ISE) operation and group-based policy configuration as they apply to Cisco Software-Defined Access (SD-Access). ISE offers many functions, but in the context of SD-Access, it offers the following key capabilities: Authentication, Authorization, and Accounting (AAA) for secured access to the fabric, policy-based segmentation, micro-segmentation, and sharing context to make intelligent policy decisions.

The presenters and panelists in this video series are product and field experts. The lead presenter is Imran Bashir, a technical marketing engineer who has been working with ISE for the last five years. The panelists and guest presenters are Gary Davis and Aunudrei Oliver from Cisco Advanced Services. These experts present key concepts that network engineers new to ISE need to know, but they also conduct demonstrations and have in-depth conversations about best practices related to deploying ISE with Cisco DNA Center™.

The flow of the course starts with an overview of ISE, then moves to key technology concepts related to 802.1X and Cisco TrustSec®. There are demonstrations on how to configure group-based policies for enabling secure access across the fabric. The course wraps up with a discussion of how ISE fits in with the SD-Access solution and lectures and demonstrations on how to configure and verify the integration between ISE and DNA Center.

By the end of the video series, you will be able to describe how ISE fits in with the SD-Access solution and configure key elements to enable the needed integration between ISE and DNA Center.
Duration

This CUST-SDA-ISE v1.0 Training on Demand course consists of 4 modules with approximately 5 hours of video instruction.

Target audience

The course is designed for customer staff who are responsible for implementing the Cisco SD-Access solution but who are new to ISE.

Job roles that will benefit most from this training are customer security professionals who need to understand how ISE fits in with SD-Access, as well as implementation and network operations engineers who need an overview of ISE and to create groups, policies, and integrate with DNA Center.

Objectives

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

- Describe how ISE Visibility can be used for network operations to perform tasks such as viewing user and device activity
- Use the ISE Profiler active probes and device sensor to learn about the devices connecting to the network
- Use the ISE wireless setup wizard to enable guest and BYOD access
- Describe the process that ISE and a device using 802.1X use to authenticate and authorize users’ access to the network
- Use ISE to run tests to confirm that user authentication and authorization are operating as intended, including the groups and policies they are part of
- Review and set up authentication and authorization policies in ISE
- Use ISE live logs to review device and user authentication activity
- Describe how ISE fits in with the SD-Access architecture
- List the configuration requirements for ISE and DNA Center to enable secure integration between the platforms

Course prerequisites

The knowledge and skills necessary before attending this course are:

- Network deployment experience equivalent to the Cisco CCNP® Routing and Switching certification
- Basic understanding of 802.1 and Cisco TrustSec operation

Course outline

- Module 1: Introduction
- Module 2: Visibility and Device Profiling
- Module 3: Security Network Access with 802.1X and Cisco TrustSec
- Module 4: Integrating ISE with DNA Center
Labs outline

There are no labs in this course.

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