

The Cisco SD-WAN Operation and Deployment (ENSDW)

Course Summary

Description

The Cisco SD-WAN Operation and Deployment (ENSDW) provides an overview of the Cisco SD-WAN solution and SD-WAN components. You will learn how to create, manage, and operate a secure extensible network using Cisco SD-WAN products. Cisco SD-WAN is a new technology, this training covers salient features such as zero-touch provisioning, secure network bring-up, configuration using feature templates, configuration of Overlay Management Protocol (OMP) and policies for network traffic management. Students will also learn about policies and quality of service (QoS) in the SD-WAN overlay network

Objectives

After taking this course, students will be able to:

- Identify the various components and architecture of the Cisco SD-WAN solution.
- Deploy vEdge routers in a secure extensible network.
- Create templates to aide in the deployment and operation of the secure extensible network.
- Configure and verify overlay routing in the secure extensible network.
- Create simple policies to control traffic flow in the secure extensible network.

Topics

- SD-WAN Solution Components
- Secure Extensible Network Deployment
- SD-WAN Template Deployment
- SD-WAN Overlay Routing
- SD-WAN Policies and QoS

Audience

- Enterprise Network System Installers
- System Integrators
- System Administrators
- Network Administrators
- Solutions Designers

Prerequisites

It is recommended, but not required, to have the following skills and knowledge before attending this course:

- Strong understanding of enterprise wide area network design
- Strong understanding of routing protocol operation, including both interior and exterior routing protocol operation
- Familiarity with Transport Layer Security (TLS) and IP Security (IPSec)

Here are recommended Cisco learning offerings that may help students meet these prerequisites:

- Implementing Cisco IP Routing v2.0 (ROUTE)
- Troubleshooting and Maintaining Cisco IP Networks v2.0 (TSHOOT)
- Implementing Cisco Edge Network Security Solutions (SENSS)

Duration

Two Days

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Course Outline

- I. *Module 1: SD-WAN Solution Components***
 - A. SD-WAN Solution Overview
 - B. SD-WAN Components
 - C. Managing SD-WAN Components
- II. *Module 2: Secure Extensible Network Deployment***
 - A. Secure Control Plane Operation
 - B. Secure Control Plane Deployment
 - C. Secure Data Plane Operation
 - D. Cloud Deployments and Redundancy
- III. *Module 3: SD-WAN Template Deployment***
 - A. Templates Overview
 - B. Feature Templates
 - C. Device Templates
 - D. Attaching Devices to Templates
- IV. *Module 4: SD-WAN Overlay Routing***
 - A. Overlay Routing Overview
 - B. OMP Route Advertisements
 - C. OMP Route Redistribution and Network Segmentation
 - D. Configuring and Verifying Overlay Routing
- V. *Module 5: SD-WAN Policies and QoS***
 - A. Policy Overview and Framework
 - B. vSmart Policy Operation and Construction
 - C. Forwarding and QoS Overview
 - D. Configuring and Monitoring QoS Forwarding