Cisco SD-WAN Operation and Deployment

Course code: SDWFND

The Cisco SD-WAN Operation and Deployment (SDWFND) v1.0 course provides an overview of the Cisco® Software-Defined WAN (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. The course covers how to configure, operate, and monitor overlay routing in a secure extensible network. In addition, you will learn about policies and Quality of Service (QoS) in the SD-WAN overlay network. This course replaces the original ENSDWD - Designing Cisco Enterprise Networks course

What we teach you

The Cisco SD-WAN solution is a cloud-delivered overlay WAN architecture that facilitates digital and cloud

transformation for enterprises. Cisco SD-WAN significantly reduces WAN costs and time to deploy new services. With

Cisco SD-WAN, you can build a robust security architecture that's crucial for hybrid networks and provides a strong

policy framework.

Required skills

- Strong understanding of enterprise WAN design
- Strong understanding of routing protocol operation, interior and exterior
- Familiarity with Transport Layer Security (TLS) and IP Security (IPsec)

Teaching materials

Participants will receive access to an electronic version of the study materials.

Course outline

- SD-WAN Solution Components
- SD-WAN Solution Overview
- SD-WAN Components
- Managing SD-WAN Components
- Secure Extensible Network Deployment
- Secure Control Plane Operation
- Secure Control Plane Deployment
- Secure Data Plane Operation
- Cloud Deployments and Redundancy
- SD-WAN Template Deployment
- Templates Overview
- Feature Templates
- Device Templates
- Attaching Devices to Templates
- SD-WAN Overlay Routing
- sOverlay Routing Overview
- OMP Route Advertisements
- OMP Route Redistribution and Network Segmentation
- Configuring and Verifying Overlay Routing
- SD-WAN Policies and QoS
- Policy Overview and Framework
- vSmart Policy Operation and Construction
- Forwarding and QoS Overview
- Configuring and Monitoring QoS Forwarding

Lab outline

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- Manage and Monitor SD-WAN Components
- Deploy and Verify SD-WAN vEdge Routers
- Deploy SD-WAN Templates
- SD-WAN Overlay Routing
- Smart Policies