

Cisco SD-WAN Operation and Deployment

Duration: 2 Days Course Code: SDWFND Version: 1.0

Overview:

This Cisco SD-WAN Operation and Deployment (SDWFND) course provides an overview of the Cisco® Software-Defined WAN (SD-WAN) solution and SD-WAN components. Learn how to create, manage, and operate a secure extensible network using Cisco SD-WAN products. Gain the skills to configure, operate, and monitor overlay routing in a secure extensible network whilst developing an understanding of the policies and Quality of Service (QoS) deployed in the SD-WAN overlay network.

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.

Target Audience:

Engineers involved in the implementation of a Cisco SD-WAN environment.

Objectives:

- **After completing this course you should 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 aid 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.

Prerequisites:

Attendees should meet the following pre-requisites:

- 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)
- CCNA - Implementing and Administering Cisco Solutions
- ENCOR - Implementing and Operating Cisco Enterprise Network Core Technologies

Testing and Certification

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Follow-on-Courses:

- ENSDWI - Implementing Cisco SD-WAN Solutions

Content:

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

- Overlay 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
- Smart Policy Operation and Construction
- Forwarding and QoS Overview
- Configuring and Monitoring QoS Forwarding

Labs

- Lab 1: Manage and Monitor SD-WAN Components
- Lab 2: Deploy and Verify SD-WAN vEdge Routers
- Lab 3: Deploy SD-WAN Templates
- Lab 4: SD-WAN Overlay Routing
- Lab 5: SD-WAN Policies

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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