Implementing Cisco SD-WAN Solutions

Course Code	SD-WAN300
Duration	4 days

Overview

The Implementing Cisco SD-WAN Solutions course gives you deep-dive training about how to design, deploy, configure, and manage your Cisco® Software-Defined WAN (SD-WAN) solution in a large-scale live network, including how to migrate from legacy WAN to SD-WAN. You will learn best practices for configuring routing protocols in the data center and the branch, as well as how to implement advanced control, data, and application-aware policies. The course also covers SD-WAN deployment and migration options, placement of controllers, how to deploy and replace edge devices, and how to configure Direct Internet Access (DIA) breakout.

Audience

Technical individuals looking to understand how to design, configure and manage a Cisco Software Defined SD-WAN including how to migrate from a legacy WAN to a SD-WAN.

Learning Objectives

By actively participating in this course, you will learn about the following:

- Describing the Cisco SD-WAN overlay network and how modes of operation differ in legacy WAN versus SD-WAN.
- Describing options for SD-WAN cloud and on-premises deployments, as well as how to deploy virtual vEdge and physical cEdge devices with Zero Touch Provisioning (ZTP) and device templates.
- Describing best practices in WAN routing protocols, as well as how to configure and implement transport-side connectivity, service-side routing, interoperability, and redundancy and high availability.
- Describing dynamic routing protocols and best practices in an SD-WAN environment, transport-side connectivity, service-side connectivity, and how redundancy and high availability are achieved in SD-WAN environments.
- Explaining how to migrate from legacy WAN to Cisco SD-WAN, including typical scenarios for data center and branch.
- Explaining how to perform SD-WAN Day 2 operations, such as monitoring, reporting, logging, and upgrading.

Pre-Requisites

- Completion of the Cisco SD-WAN Operation and Deployment (ENSDW) course or equivalent experience
- Knowledge of Software-Defined Networking (SDN) concepts as applied to large-scale live network deployments
- 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)

Recommended courses:
- Cisco SD WAN Operation and Deployment (ENSDW)

Course Contents

Cisco SD-WAN Overlay Network
- Examining Cisco SD-WAN Architecture

Cisco SD-WAN Deployment
- Examining Cisco SD-WAN Deployment Options
- Deploying Edge Devices
- Deploying Edge Devices with Zero-Touch Provisioning
- Using Device Configuration Templates
- Redundancy, High Availability, and Scalability

Cisco SD-WAN Routing Options
- Using Dynamic Routing
- Providing Site Redundancy and High Availability
- Configuring Transport-Side Connectivity

Cisco SD-WAN Policy Configuration
- Reviewing Cisco SD-WAN Policy
- Defining Advanced Control Policies
- Defining Advanced Data Policies
- Implementing Application-Aware Routing
- Implementing Internet Breakouts and Network Address Translation (NAT)

Cisco SD-WAN Management and Operations
- Performing Day-2 Operations
- Performing Upgrades

Labs
- Deploying Cisco SD-WAN Controllers
- Adding a Branch Using Zero Touch Provisioning (ZTP)
- Deploying Devices Using Configuration Templates
- Configuring Controller Affinity
- Implementing Dynamic Routing Protocols on Service Side
- Implementing Transport Location (TLOC) Extensions
- Implementing Control Policies
- Implementing Data Policies
- Implementing Application-Aware Routing
- Implementing Internet Breakouts
- Migrating Branch Sites
- Performing an Upgrade

Exam Details

There are no exams currently aligned to this course

Further Information

For more information or to book this course, please contact our Course Enquiries Team on
01752 227330 (Option 2) or email us at **enquiries@skilltec.co.uk**.