Contact:
Info@silverlake.sg
+65 - 65882456

Implementing Cisco SD-WAN Solutions v1.0

Course#:SDWAN300
Duration:5 Days
Price:0.00

Course Description

In theSDWAN300 - Implementing Cisco SD-WAN Solutions v1.0course 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.

This course helps you prepare to take the Implementing Cisco SD-WAN Solutions (300-415 ENSDWI) exam, which is part of the new CCNP Enterprise certification and the Cisco Certified Specialist - Enterprise SD-WAN Implementation certifications.

Objectives

This course will help you learn to use Cisco SD-WAN to:

- Establish a transport-independent WAN for lower cost and higher diversity
- Meet Service-Level Agreements (SLAs) for business-critical and real-time applications
- Provide end-to-end segmentation for protecting critical enterprise compute resources
- Extend seamlessly into the public cloud
- Optimize the user experience for Software-as-a-Service (SaaS) applications
- Describe the Cisco SD-WAN overlay network and how modes of operation differ in legacy WAN versus SD-WAN
- Describe 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
- Describe 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
- Describe 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
- Explain how to migrate from legacy WAN to Cisco SD-WAN, including typical scenarios for data center and branch
- Explain how to perform SD-WAN Day 2 operations, such as monitoring, reporting, logging, and upgrading

Audience

- System installers
- System integrators
- System administrators
- Network administrators
- Solutions designers

Prerequisites

You should have the following knowledge and skills before attending this course:

- 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)

Content

Virtual Classroom Live Outline

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 Migration and Interoperability

- Examining Cisco SD-WAN Hybrid Scenarios
- Performing a Migration

Cisco SD-WAN Management and Operations

Performing Day-2 Operations
Performing Upgrades

Virtual Classroom Live 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