

CISCO CERTIFIED NETWORK PROFESSIONAL ENTERPRISE SD-WAN

Implementing Cisco SD-WAN Solutions (SDWAN300)

Our Learning Exclusive

- Custom exam prep software and materials
- Exam delivery in classroom with 98% success
- Course specific thinQtank® Learning publications to promote fun exciting learning
- Extended hours of training including immersive hands-on exercises
- WE DO NOT "TEACH THE TEST" We always deliver valuable hands-on experience
- Receive all reading material and study guides when you register
- All courses taught by CCIE expert instructors

Course Duration

- Five days of instructor-led learning
- 60% lecture, 40% hands-on labs

Prerequisites

- Completion of Cisco SD-WAN ENSDW course
- Knowledge of SDN concepts applied to large-scale live network deployments
- Understanding of enterprise WAN design
- Understanding of routing protocol operation
- Familiarity with TLS and IP Security (IPSec)

Target Audience

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

Exam Information

- 300-415 – Implementing SD-WAN Solutions (SDWAN300)

Delivery Methods

- Instructor-Led Training
- Immersive Live-Online Training
- On-Site and Custom Delivery

Exclusive Tools and Learning Package

- Comprehensive video training package
- Virtual builds of all labs and hand-on learning objectives so learners can continue their hands on experience after the completion of the course
- Industry unique training course to achieve multiple certifications in one training camp

Course Overview

thinQtank® Learning is offering a unique five-day training camp comprised of five days of instructor-led learning for Implementing Cisco SD-WAN Solutions v1.0) – SDWAN300. As with all of our Cisco Training Experiences – exams are delivered in the classroom.

The goal of this portion of the course is to develop the core networking skills to 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 students 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.

Course Objectives

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

- Establish transport-independent WAN for low 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 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

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Course Modules

- 1
 - Cisco SD-WAN Overlay Network
 - Examining Cisco SD-WAN Architecture
- 2
 - 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
- 3
 - Cisco SD-WAN Routing Options
 - Using Dynamic Routing
 - Providing Site Redundancy and High Availability
 - Configuring Transport-Side Connectivity
- 4
 - 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)
- 5
 - Cisco SD-WAN Migration and Interoperability
 - Examining Cisco SD-WAN Hybrid Scenarios
 - Performing a Migration
- 6
 - Cisco SD-WAN Management and Operations
 - Performing Day-2 Operations
 - Performing Upgrades

Labs and Demonstrations

- 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

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