

SDWAN300 (IMPLEMENTING CISCO SD-WAN SOLUTIONS)

1.0

Objetivo

After taking this course, you should be able to:

- 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.

Público Alvo

Professionals interested in knowing, design, implementing, operating and supporting solutions using the Cisco SDWAN Solution protocol in wired and wireless networks. System installers System integrators System administrators Network administrators Solutions designers

Pré-Requisitos

The student 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 (basic concepts);
- 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).

Carga Horária

32 horas (4 dias).

Conteúdo Programático

Course Introduction

Course Outline

Course Goals & Objectives

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

Lab outline

Lab 1: Deploying Cisco SD-WAN Controllers
Lab 2: Adding a Branch Using Zero Touch Provisioning (ZTP)
Lab 3: Deploying Devices Using Configuration Templates
Lab 4: Configuring Controller Affinity
Lab 5: Implementing Dynamic Routing Protocols on Service Side
Lab 6: Implementing Transport Location (TLOC) Extensions
Lab 7: Implementing Control Policies
Lab 8: Implementing Data Policies
Lab 9: Implementing Application-Aware Routing
Lab 10: Implementing Internet Breakouts
Lab 11: Migrating Branch Sites
Lab 12: Performing an Upgrade