

HCIP-Datacom-SD-WAN Planning and Deployment

Training Content

1. WAN Interconnection Overview

(1) WAN Interconnection Overview

- Enterprise WAN Interconnection Status
- Challenges to Enterprise WAN Interconnection
- Birth of SD-WAN
- Introduction to Huawei SD-WAN Solution

(2) WAN Interconnection Technologies and Typical Scenarios

- Traditional enterprise WAN interconnection solution
- Enterprise WAN Interconnection Technology Application
- SD-WAN Application Scenarios

2. Key Technologies for WAN Interconnection

(1) GRE Technology

- Basic Principles of GRE
- GRE Security Mechanism
- GRE Application Scenario
- GRE Configuration

(2) IPsec VPN Technology

- Basic Concepts of IPsec
- Basic Principles of IPsec
- IPsec Application Scenarios
- IPsec Configuration

(3) BGP EVPN Basics

- MP-BGP
- EVPN

(4) Basic Principles of QoS

- QoS Technology Overview
- QoS traffic classification and marking
- Traffic Rate Limiting
- Congestion avoidance technology
- Congestion Management Technology
- Introduction to HQoS

(5) HA technology

- Link reliability
- Network reliability
- Service reliability

(6) Introduction to the Multi-Service Gateway

- AR Functions and Features
- AR WLAN Service Features
- AR Security Service Features

(7) Management and O&M

- Introduction to Zero Touch Provisioning
- Introduction to Network Maintenance
- Network O&M

3. SD-WAN Solution Deployment and Design

(1) Huawei SD-WAN Solution Technical Overview

- Architecture and Components of Huawei SD-WAN Solution
- Huawei iMaster NCE-WAN Controller
- Huawei SD-WAN Solution Principles
- Introduction to Huawei SD-WAN CPE

(2) SD-WAN Deployment

- SD-WAN Deployment Overview
- SD-WAN Tenant Management
- SD-WAN Zero Touch Provisioning
- (3) SD-WAN Networking Principles and Planning
- Basic Concepts of SD-WAN Networking

- SD-WAN Networking Principles
- SD-WAN Networking Design

(4) SD-WAN Application Experience

- Application Experience Solution Overview
- Application identification and intelligent traffic steering
- HQoS
- WAN optimization

(5) SD-WAN Security

- SD-WAN Security Overview
- System security
- Service security

(6) SD-WAN Intelligent O&M

- Intelligent O&M Overview
- Monitoring
- Maintenance

4. SD-WAN Design Practice

(1) SD-WAN Design Practice (Financial Scenario)

- Background of the Finance Industry
- Overall SD-WAN Design for the Finance Industry
- SD-WAN Design Cases in the Finance Industry