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Cisco SD-WAN (Viptela) Training
Course ID: SD-WAN

Course Time:
2 Days

Course Description

This course covers Cisco Software-Defined WAN (SD-WAN), which is an overlay architecture that overcomes the biggest drawbacks of traditional WAN. Students will be able to deploy a Cisco SD-WAN over any transport (MPLS, Broadband, LTE, VSAT etc.) and provide management, policy control, and application visibility across the enterprise. This hands-on course covers the Cisco SD-WAN product and contains extensive labs to reinforce the knowledge learned

Learning Objectives

After this course you should be able to understand:

+ Describe how to deploy SD-WAN
+ Configure SD-WAN environment
+ Deploy Zero-Touch Provisioning
+ Implement SD-WAN Security
+ Configure SD-WAN Policies

Who Should Attend

+ Data Center Architects
+ Cloud Infrastructure Architects
+ Network Engineers
+ System Administrators
+ Storage Administrators

Prerequisites

+ Familiarity with WAN Networks

Course Content (continued on next page)

Module 1: Cisco SD-WAN Introduction

+ High-level Cisco SD-WAN Deployment models
+ Application level SD-WAN solution
+ Cisco SDWAN high availability solution
+ Cisco SD-WAN Scalability
+ Cisco SD-WAN Solution Benefits

Module 2: Cisco SD-WAN Orchestration

+ Introduction
+ vManage NMS
+ vSmart Controller
+ vBond Orchestrator
+ Controller Resiliency Architecture

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Course Content

Module 3: Site Architecture and Deployment Models

+ Site Capabilities
+ vEdge Router
+ vEdge form factors

Module 4: Zero Touch Provisioning

+ Overview
+ User Input Required for the ZTP Automatic Authentication Process
+ Authentication between the vBond Orchestrator and a vEdge Router
+ Authentication between the vEdge Router and the vManage NMS
+ Authentication between the vSmart Controller and the vEdge Router

Module 5: Cisco SD-WAN Solution

+ Overlay Management Protocol (OMP)
+ Cisco SDWAN Circuit Aggregation Capabilities
+ Secure Connectivity in Cisco SD-WAN
+ Performance Tracking Mechanisms
+ Application Discovery
+ Dynamic Path Selection
+ Performance Based Routing
+ Dynamic Cloud Access

Module 6: Cisco SD-WAN Security Aspects

+ Role-based Security
+ Control Plane
+ Data Plane
+ Controller Protection
+ vEdge Protection
+ Segmentation
+ Application Blocking
+ Zone-based Firewall

Module 7: Application Monitoring

+ vManage
+ vAnalytics
+ Ecosystem Partner Solutions

Module 8: Multi-Tenancy

+ Multi-Tenant Mode
+ Creating Tenants
+ Adding Controller
+ Adding vEdges
+ RBAC

Lab 1: Introduction to the Cisco SD

Lab 2: Add vEdge to vManage Inventory

Lab 3: Control-Plane Connectivity

Lab 4: Overlay Network

Lab 5: Zero-Touch Provisioning

Lab 6: vManage Templates

Lab 7: vManage Basic Policies

Lab 8: Application Aware Policies

Lab 9: Analytics

Lab 10: Troubleshooting

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