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
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

To register for an ePlus cloud training course, contact us today.
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