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Deploying and Configuring IWAN Technologies v2.x

This 5 Day course will teach learners how to design and deploy a solution using Cisco IWAN that improves application performance over the WAN while enabling infrastructure consolidation. The learner will also understand Cisco IWAN Technologies such as PFRv3, AVC, WAAS, Akamai Connect, Zone Based Firewall.

Course Objectives

Upon completing this course, the student will be able to meet these objectives:

- The IWAN Transport Overlay
- Performance Routing Version 3
- Cisco AVC
- Cisco WAAS
- Cisco APPNAV
- Akamai Connect
- Direct Internet Access (DIA)
- Branch Security
- IWAN Management Using Prime and LiveAction

Course Duration

5 day

Course Price

\$4,195.00

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

Labs

- Configure Overlay Network with DMVPN
- Configure Performance Routing v3
- Installing and Configuring Cisco VWAAS
- Installing and Configuring Cisco ISR-WAAS
- Configuring Cisco APPNAV
- Configure WAAS Central Manager
- Configure and Optimize - Application Optimizers
- Configure Akamai Connect
- Troubleshoot Cisco ISR-WAAS and VWAAS
- Configure Prime Infrastructure and LiveAction
- Configuring IWAN Router Security

Why Attend With Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 500 Mbps Fiber Connection for our Labs
- Our Lab Run up to Date version of Code on our Servers

Outline

Module 1 IWAN Overview

- Why Use IWAN
- IWAN Base Concepts
- IWAN

Module 2 Transport Independent Design (Dual DMVPN)

- EIGRP Overlay Routing
- BGP Routing on the Overlay Backbone
- Dynamic Multipoint VPN
- DMVPN Phase Summary
- Front Door VRF
- DMVPN Configuration - Hub IKEv2 and IPSec
- DMVPN Configuration - Hub Tunnels
- DMVPN Configuration - Spokes IKEv2 and IPSec
- DMVPN Configuration - Spokes Tunnels
- Check DMVPN
- Routing Principles

Module 3 PfR Configuration

- PfR Overview
- IWAN Sites
 - Device Components and Role
 - Hub Master Controller
 - Hub Border Routers
 - Transit Master Controller
 - Transit Border Routers
 - Branch Routers
 - PfR Policies
 - Advanced Parameters
- Checking Domain Discovery
 - Hub Site
 - Check Branch Sites
- Monitoring Operations
 - Monitor Site Prefixes
 - Monitor Traffic Classes
 - Traffic Class Summary
 - Traffic Class Details
- Monitor Channels

Module 4: Cisco Wide-Area Application Services

- Introducing Cisco WAAS
- Installing and Configuring the Virtual Environment
- Installing and Configuring Cisco VWAAS
- Implementing Cisco Central Management
- Configuring Application Traffic Policies
- Configuring Cisco VWAAS Virtualization

Module 5: Cisco APPNAV

- APPNAV
- Installing APPNAV Controllers
- APPNAV-XE Controller Configuration
- Monitoring the APPNAV Controller
- APPNAV Troubleshooting-XE
- APPNAV Troubleshooting

Module 6: Cisco WAAS Configuration

- Introducing Cisco WAAS Traffic Interception

Module 7: Cisco WAAS Application Optimizers

- Configuring CIFS Optimization
- Configuring TFO Optimization
- Configuring MAPI Optimization
- Configuring HTTP Optimization
- Configuring SSL and Optimization
- Configuring Cisco WAAS Windows Network Printing
- Configuring Streaming Video Optimization
- Configuring MS-port-mapper Optimization
- Configuring ica Optimization
- Configuring NFS Optimization
- Configuring Video Optimization

Module 8: Cisco WAAS Troubleshooting

- Reporting
- Troubleshooting Introduction
- Troubleshooting Network Interception
- Troubleshooting WAN Optimization
- Files For TAC Troubleshooting

Module 9: Akamai Connect

- Akamai Connect Overview

Module 10 Intelligent WAN: Secure Connectivity

- IPSec VPN and Access Control
- Cisco Router Security Certifications
- Secure Boot
- IOS Zone-Based Firewall
- Protecting the Public facing IWAN Interfaces with FrontDoor VRF
- General IOS Security measures for Internet facing interfaces Cloud Web Security (CWS)

Module 11 Managing the IWAN Environment

- APIC-EM
- Prime Infrastructure
- LiveAction