



# Deploying and Configuring IWAN Technologies v2.0 - IWAN

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## Course Details

### Course Outline

#### 1. IWAN Overview

- a. Why Use IWAN
- b. IWAN Base Concepts
- c. IWAN

#### 2. Transport Independent Design (Dual DMVPN)

- a. EIGRP Overlay Routing
- b. BGP Routing on the Overlay Backbone
- c. Dynamic Multipoint VPN
- d. DMVPN Phase Summary
- e. Front Door VRF
- f. DMVPN Configuration - Hub IKEv2 and IPSec
- g. DMVPN Configuration - Hub Tunnels
- h. DMVPN Configuration - Spokes IKEv2 and IPSec
- i. DMVPN Configuration - Spokes Tunnels
- j. Check DMVPN
- k. Routing Principles

#### 3. PfR Configuration

- a. PfR Overview
- b. IWAN Sites
- c. Device Components and Role
- d. Hub Master Controller
- e. Hub Border Routers
- f. Transit Master Controller
- g. Transit Border Routers
- h. Branch Routers
- i. PfR Policies



- j. Advanced Parameters
  - k. Checking Domain Discovery
  - l. Hub Site
  - m. Check Branch Sites
  - n. Monitoring Operations
  - o. Monitor Site Prefixes
  - p. Monitor Traffic Classes
  - q. Traffic Class Summary
  - r. Traffic Class Details
  - s. Monitor Channels
- 4. Cisco Wide-Area Application Services**
- a. Introducing Cisco WAAS
  - b. Installing and Configuring the Virtual Environment
  - c. Installing and Configuring Cisco VWAAS
  - d. Implementing Cisco Central Management
  - e. Configuring Application Traffic Policies
  - f. Configuring Cisco VWAAS Virtualization
- 5. Cisco APPNAV**
- a. APPNAV
  - b. Installing APPNAV Controllers
  - c. APPNAV-XE Controller Configuration
  - d. Monitoring the APPNAV Controller
  - e. APPNAV Troubleshooting-XE
  - f. APPNAV Troubleshooting
- 6. Cisco WAAS Configuration**
- a. Introducing Cisco WAAS Traffic Interception
- 7. Cisco WAAS Application Optimizers**
- a. Configuring CIFS Optimization
  - b. Configuring TFO Optimization
  - c. Configuring MAPI Optimization
  - d. Configuring HTTP Optimization
  - e. Configuring SSL and Optimization



- f. Configuring Cisco WAAS Windows Network Printing
  - g. Configuring Streaming Video Optimization
  - h. Configuring MS-port-mapper Optimization
  - i. Configuring ica Optimization
  - j. Configuring NFS Optimization
  - k. Configuring Video Optimization
- 8. Cisco WAAS Troubleshooting**
- a. Reporting
  - b. Troubleshooting Introduction
  - c. Troubleshooting Network Interception
  - d. Troubleshooting WAN Optimization
  - e. Files For TAC Troubleshooting
- 8. Akamai Connect**
- a. Akamai Connect Overview
- 8. Intelligent WAN: Secure Connectivity**
- a. IPSec VPN and Access Control
  - b. Cisco Router Security Certifications
  - c. Secure Boot
  - d. IOS Zone-Based Firewall
  - e. Protecting the Public facing IWAN Interfaces with FrontDoor VRF
  - f. General IOS Security measures for Internet facing interfaces Cloud Web Security (CWS)
- 8. Managing the IWAN Environment**
- a. APIC-EM
  - b. Prime Infrastructure
  - c. LiveAction
- 8. Lab**
- a. Configure Overlay Network with DMVPN
  - b. Configure Performance Routing v3
  - c. Installing and Configuring Cisco VWAAS
  - d. Installing and Configuring Cisco ISR-WAAS
  - e. Configuring Cisco APPNAV
  - f. Configure WAAS Central Manager



- g. Configure and Optimize - Application Optimizers
- h. Configure Akamai Connect
- i. Troubleshoot Cisco ISR-WAAS and VWAAS
- j. Configure Prime Infrastructure and LiveAction
- k. Configuring IWAN Router Security