Cisco SD-WAN Operations, Troubleshooting, and Best Practices

- 5 Day Course
- Lecture and Hands-On Labs

Course Overview

Configuring Cisco Catalyst 9800 and Intro to Wi-Fi 6 (C98WF6) is a course designed to help students understand how the Catalyst 9800 Series wireless controllers combine the best of RF excellence with IOS XE benefits. This course begins with a description of the Cisco Catalyst 9800 and its benefits while introducing the learner to Wi-Fi 6. The configuration, migration, and troubleshooting will also be covered in this instructor-led course.

Who Should Attend

- Engineering and Planning team evaluating WAN evolution
- Personnel involved in SD WAN Design, Implementation and Operation
- Network Operations team with SD WAN solution
- Cisco partners who sell and support SD WAN solutions

What You'll Learn

- Describe how to deploy SD-WAN
- Configure SD-WAN environment
- Deploy Plug and Play / Zero-Touch Provisioning
- Implement SD-WAN Security
- Configure SD-WAN Policies
- Deploy, maintain and troubleshoot cEdge devices
- Operate SD-WAN Devices and software
- Troubleshoot SD-WAN environment

Outline

Software Control Management

- 🖥 Lecture + Lab: SCM Option #1 - GitHub
- 🖥 Lecture + Lab: SCM Option #2 - GitLab
- 🖥 Lecture + Lab: Access the Lab Devices
- 🖥 Lecture + Lab: Access the EnterOne Lab
- 🖥 Lecture + Lab: Onboard vSmart Controller
- 🖥 Lecture + Lab: Prepare a vEdge Router for Onboarding
- 🖥 Lecture + Lab: Prepare a cEdge Router for Onboarding
- 🖥 Lecture + Lab: Add vEdge to vManage Inventory
- 🖥 Lecture + Lab: Configure and Deploy vEdge Router Control-Plane
- 🖥 Lecture + Lab: Configure and Deploy cEdge Router Control-Plane
- 🖥 Lecture + Lab: Decommission a cEdge from vManage Inventory
- 🖥 Lecture + Lab: Adding a cEdge to vManage Inventory
- 🖥 Lecture + Lab: Configure and Deploy an Overlay Network

- 🖥 Lecture + Lab: Exploring vManage GUI
- 🖥 Lecture + Lab: Provision and Deploy vManage Feature Templates
- 🖥 Lecture + Lab: Deploy Feature-Based Device Template
- 🖥 Lecture + Lab: Provision and Deploy vManage CLI Templates
- 🖥 Lecture + Lab: Provision and Deploy Policies (Part 1)
- 🖥 Lecture + Lab: Modify Controller Distribution Using a Control Policy
- 🖥 Lecture + Lab: Create a Hub and Spoke Control Policy
- 🖥 Lecture + Lab: Provision and Deploy Policies (Part 2)
- 🖥 Lecture + Lab: Create an Application Aware Routing Policy
- 🖥 Lecture + Lab: Create a Service Chain Policy
- 🖥 Lecture + Lab: Create Localized QOS Policies Using Feature Templates
- 🖥 Lecture + Lab: Verifying and Troubleshooting Data Plane Issues
- 🖥 Lecture + Lab: Verifying the Data Plane
- 🖥 Lecture + Lab: Verifying BFD Information
- 🖥 Lecture + Lab: Determining the Makeup of Network Traffic Using DPI
- 🖥 Lecture + Lab: Simulating Flows
- 🖥 Lecture + Lab: TLOC Extension
- 🖥 Lecture + Lab: Troubleshooting Methods and Tools
- 🖥 Lecture + Lab: Using the REST API and Python Scripting
- 🖥 Lecture + Lab: Deploy Multitenant vManage

Prerequisites

- Familiarity with WAN Networks

Next Courses

- Administering Cisco Data Center Unified Computing System with Intersight v6.0
- Implementing and Administering DNA Center for Assurance v2.0
- Administering Cisco UCS X-Series Solutions with Intersight
- Managing LAN Networks with Cisco Nexus Dashboard
- Configuring Cisco Catalyst 9800 and Intro to Wi-Fi 6 v2.0