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Learning Style: Virtual Classroom

Technology: Cisco

Difficulty: Beginner

Course Duration: 3 Days

Configuring Cisco Catalyst 9800 and Intro to Wi-Fi 6 v2.0 (C98WF6)



About This Course:

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.

Course Objectives:

- Understand Wi-Fi evolution and nomenclature.
- Identify Cisco’s wireless technology milestones.
- Deep-dive into Wi-Fi 7 features and their implications.
- Articulate Catalyst 9800 architecture and configuration models.

Audience:

The primary audience for this course is as follows:

- Cisco Partners and customers interested in the Catalyst 9800 wireless controller

Prerequisites:

The knowledge and skills that a learner should have before attending this course are as follows:

- Understanding of Wi-Fi technologies (CCNA Level)

Course Outline:

Module 1: Cisco Catalyst 9800 Wireless Controller and Wi-Fi 6

- Introduction to Cisco Catalyst 9800 Wireless Controller
- Cisco Catalyst 9800 Wireless Controller On-Prem and Cloud

Module 2: Wi-Fi 6 and Wi-Fi 6E

- Wireless Evolution
- Wi-Fi 6
- Wi-Fi 6E

Module 3: Wireless Setup – Basic

- VLAN
- Tags
- Location

Module 4: Authentication Mechanisms

- Authentication Types
- MAB Authentication

Module 5: Wireless Setup – Advanced

- WLC Deployment Options
- FlexConnect
- Resiliency
- FlexConnect Configuration
- AireOS vs. WLC C9800

Module 6: Mobility

- Introduction to Mobility
- Mobility Groups
- Configuring Mobility Groups
- Verify Mobility

Module 7: Guest Anchor Mobility

- Guest Flow
- Guest Anchor Mobility
- Guest Anchor Configuration
- Scenario #1: Foreign / Anchor – C9800
- Scenario #2: Foreign – C9800, Anchor – AireOS
- Scenario #3: Foreign – AireOS, Anchor – C9800

Module 8: Application Visibility and Control Feature

- Application Visibility and Control
- Prerequisites and Restrictions
- QOS Workflow

Module 9: Backup and Restore Licensing

- Configuration Backup
- Restore Configuration
- Licensing

Module 10: High Availability

- High Availability Design with Cisco Catalyst 9800 Wireless Controllers
- High Availability: N+1 Redundancy
- High Availability: Stateful Switchover (SSO)
- High Availability: Failover Scenarios
- SSO Best Practices
- Access Point Redundancy
- LACP, PAGP Support in SSO Pair

Module 11: Software Updates

- Software Patching Capability
- Software Maintenance Update
- Rolling AP Update/Upgrade Infrastructure
- Controller Software Upgrade

Lab Outline:

Labs are designed to assure learners a whole practical experience, through the following practical activities:

- Lab 1: Create VLAN
- Lab 2: Create Location
- Lab 3: Create Mpsk SSID
- Lab 4: WLC and ISE Integration
- Lab 5: Create and Test Ipsk SSID
- Lab 6: Implement FlexConnect WLAN Deployment on 9800 WLC
- Lab 7: Flex Connect Group
- Lab 8: Mobility Tunnel Setup
- Lab 9: Guest Anchor Mobility
- Lab 10: QOS and AVC
- Lab 11: Perform 9800 WLC Maintenance
- Lab 12: 9800 WLC Troubleshooting
- Lab 13: High Availability SSO for Centralized Cisco 9800 WLC
- Lab 14: Perform 9800 WLC Upgrade In HA Pair

The labs use C9800 17.7.1 software code and ISE 3.1.0 code.

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