



Configuring Cisco Catalyst 9800 and Intro to WiFi6 (C98WF6)

COURSE OVERVIEW

Configuring Cisco Catalyst 9800 and Intro to WiFi6 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 WiFi6. The configuration, migration, and troubleshooting will also be covered in this instructor-led course.

WHO WILL BENEFIT FROM THIS COURSE?

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 the learner should have before attending this course are as follows:

- Understanding of Wi-Fi technologies (CCNA Level)

COURSE OBJECTIVES

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

- Describe Cisco Catalyst 9800
- Understand the Benefits for Catalyst 9800
- Configure Catalyst 9800
- Migrate to the Catalyst 9800
- Troubleshoot the Catalyst 9800
- Understand and Discuss WiFi6

COURSE OUTLINE

Module 1: Course Introduction

- Cisco Catalyst 9800 Overview
- Intent-Based Networking (IBN)
- Cisco Catalyst Next Gen Wireless Architecture
- Cisco Catalyst 9800 Wireless – Platform Support

Module 2: Cisco Catalyst 9800 Wireless Controller Appliances

- Cisco Catalyst 9800 Wireless Controller Series: C9800-80-K9
- Cisco Catalyst 9800 Wireless Controller Series: C9800-40-K9
- Cisco Catalyst 9800 Wireless Controller Cloud Series: C9800-CL-K9



Module 3: Cisco Catalyst 9800 use in Private and Public Cloud Environments

- Private
- Public
- Hybrid

Module 4: What is Wi-Fi 6 and Why do we need it?

- Use Cases – how Wi-Fi 6 will change Business and Industry
- WiFi6 technical – a leap from previous Wi-Fi technologies
- Design Considerations
- Cisco WiFi6 Portfolio and Interoperability
- Configure WiFi6 on Cat 9800

Module 5: Cisco Catalyst 9800 Series Embedded Controller for SDA

- SD-Access Everywhere
- Wireless Assurance with DNA Center
- Catalyst 9800 SD-Access Wireless
- Catalyst 9800 SD-Access Embedded Wireless Controllers

Module 6: High Availability

- Reducing downtime for Upgrades and Unplanned Events
- High Availability (Client SSO)
- High Availability (AP & Client SSO)

Module 7: Software Updates

- Software Updates
- SSO
- Patching
- Rolling Upgrades
- Wireless Controller SMU
- Rolling AP Update
- Image Upgrade

Module 8: Programmability and Telemetry

- Flexible management options with Cisco Catalyst 9800 Wireless Controllers
- Wireless Programmability “Stack”
- Config vs Operational YANG data models
- Model Driven Telemetry
- Security and Threat Detection
- Intent-based wireless networks Security
- Security and Threat Mitigation

Module 9: Catalyst 9800 Wireless Controller Configuration Model

- New Configuration Model
- AireOS vs. Catalyst 9800 Config Model
- Catalyst 9800 Config Model



Module 10: Wireless Basic Setup

- Wireless Basic Configuration Model
- Adding Local Site
- Adding Remote Site
- Provisioning APs to Site
- Day 0
- AP PnP

Module 11: Wireless Advanced

- Guided UI Configuration Workflow
- WLAN Profile
- Policy Profile
- AP Join profile
- RF Profile
- Static and Rule-Based AP Tagging

Module 12: Migration

- AireOS Config Translator
- Using the Tool
- Migration using Prime
- AireOS Config Translator on PI 3.5

Module 13: Troubleshooting

- IOS-XE logging architecture
- Packet tracing and packet captures
- Embedded Packet Capture web interface
- Useful commands and tools

Lab Outline:

- Lab 1: Configure Windows 10 Client Access
- Lab 2: Configure Centralized WLAN Deployment with Catalyst 9800
- Lab 3: Configure Security in Centralized WLAN Deployment with Catalyst 9800 using ISE
- Lab 4: Configuring Guest Access using Catalyst 9800 and Anchor AirOS
- Lab 5: Implement Flex-Connect WLAN Deployment with Catalyst 9800
- Lab 6: High Availability SSO with Catalyst 9800
- Lab 7: Migrating Configuration from AireOS to Catalyst 9800 WLC using WebUI and Prime Infrastructure
- Lab 8: Catalyst 9800 Software Upgrade

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