

Configuring Cisco Catalyst 9800 and Intro to WIFI6

Duration: 3 Days **Course Code:** N1-C98WF6 **Version:** 1.0 **Delivery Method:** Virtual Learning

Overview:

Configuring Cisco Catalyst 9800 and Intro to WIFI6 is a two-day 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.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Cisco Partners and customers interested in the Catalyst 9800 wireless controller

Objectives:

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| ■ After completing this course you should be able to: | ■ Migrate to the Catalyst 9800 |
| ■ Describe Cisco Catalyst 9800 | ■ Troubleshoot the Catalyst 9800 |
| ■ Understand the Benefits for Catalyst 9800 | ■ Understand and Discuss WIFI6 |
| ■ Configure Catalyst 9800 | |

Prerequisites:

Attendees should meet the following prerequisites:

- Understanding of Wi-Fi technologies (CCNA Level)
- CCNA - Implementing and Administering Cisco Solutions
- WLFNDU - Understanding Cisco Wireless Foundations

Testing and Certification

Recommended as preparation for the following exams:

- There are no exams aligned to this course

Content:

Introduction

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

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

Cisco Catalyst 9800 use in Private and Public Cloud Environments

- Private
- Public
- Hybrid

What is WiFi 6 and Why do we need it?

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

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

High Availability

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

Software Updates

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

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

Catalyst 9800 Wireless Controller Configuration Model

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

Wireless Basic Setup

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

Wireless Advanced

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

Migration

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

Troubleshooting

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

Lab Outline:

- Configure Windows 10 Client Access
- Configure Centralized WLAN Deployment with Catalyst 9800
- Configure Security in Centralized WLAN Deployment with Catalyst 9800 using ISE
- Configuring Guest Access using Catalyst 9800 and Anchor AirOS
- Implement Flex-Connect WLAN Deployment with Catalyst 9800
- High Availability SSO with Catalyst 9800
- Migrating Configuration from AireOS to Catalyst 9800 WLC using WebUI and Prime Infrastructure
- Catalyst 9800 Software Upgrade

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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