

C98WF6 - Configuring Cisco Catalyst 9800 and Intro to WiFi6

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