
SD-Access and Catalyst 9K Programmability

Duración: 2 Días **Código del Curso: SDA9KP** **Version: 1.0**

Temario:

This two-day course covers SD-Access and the Cisco Catalyst 9000 Series switch programming. The student will learn how to create production solutions that run on or interact with IOS-XE on the Catalyst 9000 switches. Students will learn how to use advanced Cisco tools including DNA Center, APIC-EM, ISE, and Network Data Platform to implement SD-Access.

Dirigido a:

Individuals involved in the design and implementation of an SD-Access and Catalyst 9K solution.

Objetivos:

- **After you complete this course you should be able:**
 - Describe use cases and examples of the value of Catalyst 9000 programmability
 - Use Python to automate the Catalyst 9000
 - Use object-oriented programming in Python to abstract Catalyst 9000
 - Understand SD-Access
 - Apply Cisco Software-Defined Access programmatically
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Prerequisites:

Attendees should meet the following prerequisites:

- Familiarity with Catalyst 9K Switches

Exámenes y certificación

Recommended as preparation for the following exams:

- There are no exams currently aligned with this course
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Contenido:

SD-Access Overview

- End-to-end segmentation
- Simple, automated work flows
- Open and Programmable APIs
- Intelligent network fabric
- Use Cases
- Cisco Catalyst 9000 Series Programmability
- Components
- Key Integration

Cisco DNA Programming Basics

- IOS XE
- Understanding REST API
- Python and IOS XE
- Cisco Python Module
- Use cases

Catalyst 9000 Automation

- NETCONF with SDN controllers
- OpenConfig
- YANG data models
- Guest Shell Linux Containers (LXCs)
- Cisco network plug-and-play
- Zero-touch provisioning
- Python scripting and custom libraries
- Use Cases

Software Defined Networks

- SD-Access
- VXLANs
- MP-BGP EVPN
- Use case

APIC-EM

- SD-Access and APIC-EM
- Use Case
- Catalyst 9000 Integration
- APIC-EM Automation
- APIC-EM APIs

Cisco DNA Center to Manage Your Network

- Components
- Benefits
- Automation

Cisco SD Access Programming

- Network Fabric
- Cisco SD-Access
- Use Cases
- Cisco SD-Access Hardware and Software Platform Requirements
- Centralized Control and Management Plane

SD-Access Wireless and WAN Programming

- Visibility of Wireless Traffic for Consistency
- Centralized Control/Management
- Intelligent Services Automation (Application Visibility and Control, EasyQoS)
- Network Embedded Threat/Anomaly Detection and Mitigation
- Intelligent WAN
- Use Cases

Labs

- Lab: Software Defined Networks on Catalyst 9300
- Lab: REST API
- Lab: Calling REST APIs from Python
- Lab: Programming the Catalyst 9300
- Lab: Software Defined Networks on Catalyst 9300
- Lab: APIC-EM Automation
- Lab: Setup Cisco DNA Center
- Lab SD Access : Setup Overlay and one Neighborhood
- Lab SD Access : Moving Users to Cisco SD-Access Fabric
- Lab SD Access : WAN Migration
- Lab SD Access : Enable Mobility Services

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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