Understanding Cisco SDA Fundamentals (SDAFND)

Description

The **Understanding Cisco SDA Fundamentals (SDAFND)** training introduces you to Cisco® Software-Defined Access and teaches you, through a combination of lectures and labs, how to implement simple, single-site fabric networks. You will learn the benefits of leveraging Software-Defined Access in the Cisco-powered Enterprise Campus network. The training will introduce the solution, its architecture and components, and guide you through labs to design and deploy simple Cisco SD-Access networks.

Though this training is not directly related to a certification, it provides fundamental knowledge for topics covered in the Cisco Certified Network Professional (CCNP) Enterprise certification. This training also earns you 18 Continuing Education (CE) credits toward recertification.

How you'll benefit

This training will help you:

- Deploy Cisco SD-Access networks
- Explain Cisco Software-Designed Access
- Operate, manage, and integrate Cisco Catalyst Center (formerly Cisco DNA Center)
- Earn 18 CE credits toward recertification

Who should enroll

- Field Engineers
- Network Engineers
- Network Administrators
- System Engineers

Technology areas

- Software-Defined Access Networks

Objectives

- Describe Cisco SD-Access architecture and its components
- Explain Catalyst Center deployment models, scaling, and high availability
- Identify Cisco SD-Access fabric protocols and node roles
- Understand the Cisco SD-Access Wireless deployment models
- Automate Day 0 device onboarding with Catalyst Center LAN Automation and Network PnP
- Deploy simple Cisco SD-Access fabric networks
- Monitor health and performance of the network with Catalyst Center Assurance
- Interact with the Catalyst Center Platform Intent APIs

Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- CCNP® level core networking knowledge
- Ability to use Windows and Linux CLI tools such as ping, SSH, or running scripts

These skills can be found in the following Cisco Learning Offerings:

- Implementing and Administering Cisco Solution (CCNA)
- Implementing Cisco Enterprise Network Core Technologies (ENCOR)

Outline

- Introducing Cisco SD-Access
- Introducing Cisco DNA Center
- Exploring Cisco SD-Access Solution Components
- Exploring Cisco SD-Access Wireless Architecture
- Automating Network Changes with Cisco DNA Center
- Deploying Fabric Networks with Cisco DNA Center
- Exploring Cisco DNA Center Assurance
- Exploring Cisco DNA Center Programmability

Lab Outline

- Explore Cisco DNA Center User Interface
- Verify Location Identifier Separation Protocol (LISP) Operation in Cisco SD-Access
- Integrate Cisco DNA Center and Cisco Identity Services Engine (Cisco ISE)
- Provision Access Points in Cisco DNA Center
- Provision Underlay Networks with Cisco DNA Center LAN Automation
- Provision Underlay Networks with Cisco DNA Center LAN Automation (cont.)
- Deploy Cisco SD-Access Single Site Fabric
- Deploy Cisco SD-Access Single Site Fabric (cont.)
- Explore Cisco DNA Center Assurance
- Cisco DNA Assurance Issues and Guided Remediation
- Interact with Cisco DNA Center Intent APIs Using Python

Links

- [Cisco U. Learning Path](#)
- [Cisco Learning Network Store](#)
- [Cisco Learning Locator](#)