COMPUTER LEARNING CENTRE
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CISCO PARTNER Learning

Training overview

Transforming to a Cisco Intent-Based Network (IBNTRN)

Description

The **Transforming to a Cisco Intent-Based Network (IBNTRN)** training teaches you the functionality of Cisco® SD-Access. Through a combination of lessons and hands-on learning, you will practice deploying, operating, and managing SD-Access networks using Cisco Catalyst Center. You will learn how Cisco delivers intent-based networking across the campus, branch, WAN, and extended enterprise and ensures that your network is operating as intended. You will explore Cisco Catalyst Center automation and assurance features, build wired and wireless fabric networks, implement segmentation and guest access, deploy multi-site and multicast services, migrate existing networks to SD-Access, and use Cisco Catalyst Center to troubleshoot common SD-Access issues.

This training also earns you 31 Continuing Education (CE) credits toward recertification.

How you'll benefit

This training will help you:

- Gain hands-on experience deploying, operating, and managing Cisco SD-Access networks using Cisco Catalyst Center, including wired, wireless, extended enterprise, and multi-site deployments
- Learn to implement automation and assurance features such as device discovery, network settings automation, network health monitoring, and AI analytics
- Understand and apply micro and macro segmentation, guest wireless access, and integration with Cisco ISE for enhanced network security
- Acquire skills to migrate from traditional networks to SD-Access networks and troubleshoot wired, wireless, and segmentation issues effectively
- Earn 31 CE credits toward recertification

Who should enroll

- Network Administrators
- Network Engineers
- System Engineers
- Technical Architects

- Technical Support Personnel
- Sales Engineers

Technology areas

- Networking

Objectives

- Describe Cisco Catalyst Center
- Implement Cisco Catalyst Center automation features, such as network device discovery mechanisms, device inventory, and basic network settings automation
- Use Cisco Catalyst Center Assurance features, such as network, client, and application health, network issues, and AI Analytics
- Describe Cisco SD-Access fabric networks
- Deploy and manage wired Cisco SD-Access fabric networks
- Deploy and manage wireless Cisco SD-Access networks
- Deploy and manage extended enterprise using Cisco SD-Access
- Implement micro and macro segmentation in Cisco SD-Access wired and wireless networks
- Deploy and manage guest wireless access using Cisco SD-Access and Cisco ISE
- Describe different options to migrate from traditional network to SD-Access network
- Deploy and manage multi-site Cisco SD-Access network
- Deploy and manage multicast in Cisco SD-Access network

Prerequisites

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

- Understanding of network routing and switching principles equivalent to a CCNP® Enterprise level
- Experience with Cisco wireless technologies
- Experience with Cisco ISE, 802.1x, and Cisco TrustSec
- Understanding of segmentation technologies such as VLANs and Virtual Routing and Forwarding (VRF)
- Basic understanding of overlay technologies such as Virtual Extensible LAN (VXLAN)
- Basic understanding of Locator ID Separation Protocol (LISP)

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

- Implementing Cisco Enterprise Network Core Technologies (ENCOR)
- Introduction to 802.1X Operations for Cisco Security Professionals (802.1X)
- Understanding Cisco Wireless Foundations (WLFNDU)

Outline

- Introduction to Cisco Catalyst Center
- Cisco Catalyst Center SD-Access Automation
- Cisco Catalyst Center SD-Access Assurance
- Cisco SD-Access Overview
- Wired Cisco SD-Access

- Wireless Cisco SD-Access
- Cisco SD-Access Extended Enterprise
- Cisco SD-Access Segmentation
- Cisco Catalyst Center and Cisco ISE Integration
- Cisco SD-Access Segmentation Packet Flows
- Cisco SD-Access Guest Access
- Cisco SD-Access Migration
- Cisco SD-Access Multisite
- Cisco SD-Access Multicast

Lab Outline

- Discover and Provision Network Devices
- Perform LAN Automation
- Configure Wired Network Fabric Site
- Configure and Verify Host Onboarding
- Configure Wireless Network Fabric
- Configure and Verify Access Point and Host Onboarding
- Configure Cisco SD-Access Extended Enterprise
- Implement Microsegmentation
- Configure Wireless Guest Access
- Migrate Existing Site to Fabric Using Layer 2 Border
- Configure Multisite Fabric
- Configure Multicast