

Implementing Cisco Application Centric Infrastructure - Advanced

Varighet: 5 Days Kurskode: DCACIA Version: 1.0 Opplæringsmetoder: Bedriftsinternt

Beskrivelse:

The Implementing Cisco Application Centric Infrastructure–Advanced (DCACIA) course shows you how to implement and use the advanced features of the Cisco® Nexus® 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI®) mode. The course gives you the knowledge and skills to understand, configure, and manage Cisco Nexus 9000 Series Switches in ACI mode, how to implement traditional networks in Cisco ACI, and how to implement Cisco ACI Multi-Pod and Multi-Site deployments. You will gain hands-on practice implementing advanced ACI capabilities such as Rogue Endpoint Feature, Transit Routing, VRF Route Leaking, Contracts and Zoning Rules, Policy Based Redirect to Layer 4–7 Service Node, Multi-Pod Fabric and Cisco ACI Multi-Site Orchestrator.

Bedriftsinternt

Bedriftsinterne kurs kan leveres til din bedrift på våre kurssteder eller i deres lokaler. Kursene kan leveres som standard kurs eller skreddersys spesielt etter deres behov.

Målgruppe:

Engineers looking to learn advanced ACI skills for implementation on the Cisco Nexus 9000 Series Switch running in ACI Mode.

Agenda:

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| ■ After completing this course you should be able to: | ■ Explain the details and consideration of implementing and integrating traditional network with Cisco ACI |
| ■ Explain Cisco ACI advanced fabric packet forwarding | ■ Describe Cisco ACI Service Graph Policy-Based Redirect (PBR) |
| ■ Explain advanced ACI policy and tenant configuration | ■ Describe Cisco ACI Multi-Site deployment |
| ■ Describe Cisco ACI Multi-Pod deployment | |

Forkunnskaper:

Attendees should meet the following prerequisites:

- Basic understanding of Cisco ACI
- Understanding of Cisco data center architecture
- Familiarity with virtualization fundamentals
- DCACIA - Implementing Cisco Application Centric Infrastructure

Test og sertifisering

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Innhold:

Cisco ACI Advanced Packet Forwarding

- Packet Forwarding Between Leaf Switches
- Endpoint Learning
- Network Interface Card (NIC) Teaming to ACI Fabric
- Endpoint Learning Optimizations
- Endpoint Loop Protection
- Rogue Endpoint Control

Using Advanced Cisco ACI Policy and Tenant Configuration

- Layer 3 Outside Transit Routing
- Using Tenant Common for Shared Services
- Using Virtual Routing and Forwarding (VRF) Route Leaking for Shared Services
- Using Layer 3 Outside configuration policy (L3Out) VRF Route Leaking for Shared Services
- Detailed Contract Architecture with pcTag
- Contract with v2Any
- Contract Preferred Group

Implementing Traditional Network in Cisco ACI

- Integrating Switched Network with Cisco ACI
- Migrating Existing Switched Network to Cisco ACI
- Network- vs. Application-Centric Deployment Models

Cisco ACI Service Graph PBR

- Service Graph PBR Overview
- PBR End-to-End Packet Flow
- Service Graph PBR Requirements and Topologies
- Service Graph PBR Tracking Options

Cisco ACI Multi-Pod Deployment

- Cisco ACI Multi-Pod Overview
- Inter-Pod Network Overview
- Multi-Pod Provisioning and Packet Flow Between Pods
- Connectivity to External L3 Networks
- Service Node Integration Considerations
- Service Graph Considerations

Cisco ACI Multi-Site Deployment

- Cisco ACI Multi-Site Overview
- Cisco ACI Multi-Site Orchestrator
- Inter-Site Network Overview
- Tenant Configuration Deployment from Multi-Site Orchestrator (MSO)
- Packet Flow Between Sites
- Multi-Site Stretched Components
- Multi-Site vs Multi-Pod Comparison

Labs

- Examine Local and Remote Endpoint Learning
- Verify Bounce Entries
- Validate IP Learning
- Mitigate IP and MAC Flapping with the Rogue Endpoint Feature
- Enable Transit Routing
- Implement VRF Route Leaking
- Configure VRF Route Leaking with L3Out
- Examine Contracts and Zoning Rules
- Configure Policy-Based Redirect to Layer 4–7 Service Node
- Deploy Multi-Pod Fabric
- Provision Policies with Cisco ACI Multi-Site Orchestrator

Ytterligere informasjon:

For mer informasjon eller kursbooking, vennligst ring oss 22 95 66 00

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