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Insight Series
Software-Defined Access (SDA)

Course Description

Cisco Software-Defined Access (SD-Access), a solution within Cisco Digital Network Architecture (Cisco DNA) which is built on intent-based networking principles, provides a transformational shift in building, managing, and securing networks, making them faster and easier to operate, with improved business efficiency.

The Firefly SDA Insight series consists of five, highly interactive Webex whiteboarding sessions with demos. The Expert-led series runs weekly, delivered by Andrew Stinson. This series dives deeper into the Cisco SDA architecture and features.

As an IT Professional, it is critical that you have a clear understanding of what SD-Access is and what capabilities it provides. In this series, we will be exploring what SD-Access is, what the requirements are, and how to design and deploy a functional environment.

Prerequisites

IT professionals who already possess a strong working knowledge of Enterprise networks will gain the most from this course.

Who Should Attend

This webinar series is tailored for network engineers looking to gain a better understanding of SD-Access for deployment within their environment.

Learning Objectives

- Understanding SD-Access requirements
- Understanding SD-Access fabric components
- Understanding deployment options for SD-Access
- Understanding the role of DNA Center and ISE in an SD-Access environment
- Understanding how to design and deploy SD-Access

Andrew Stinson
Cisco SDA Expert

Cisco Software Defined Access (SDA)

Session 1: Overview

In this session, we will explore Cisco SD-Access. Topics covered include from an introduction to software-define networking, use cases, requirements, and an introduction to what an SD-Access network is.

DEMO:
SDA Fabric and Roles

- What is Software-Defined Networking (SDN)?
  - Traditional vs Pure vs Hybrid
  - What is a fabric?
  - Benefits
- What is SDA?
  - Use Cases
  - Components
    - Intro to DNA
    - Intro to ISE
    - Infrastructure
  - Requirements
- What does SDA Fabric look like?
  - Fabric
    - Underlay Intro
    - Overlay Intro
- Fabric Roles
  - Border
  - Control Plane
  - Edge
  - Fabric WLC
  - Fusion Router
  - Intermediate Nodes
  - Policy/Extended Node

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Session 2: **Fabric Constructs and Forwarding**

In this session, we will discover how network administrators can deploy an SD-Access fabric. Topics covered include an intro to SD-Access, design considerations, deployment scenarios, and the deployment process. We will walk through the deployment process of a simple network.

DEMO:
SDA Fabric Constructs and Forwarding

- Logical constructs
  - Network Site Hierarchy
    - IP Pools
    - Wireless Network Profile
  - Inventory
    - Virtual Networks
  - Security Policies
    - Scalable Groups
      - Contracts
  - Fabric Site
    - Network Site
    - Virtual Networks
      - SVI Anycast Gateways
    - Transit
      - IP Transit
      - SD Transit
- Fabric Forwarding

Session 3: Identity Services Engine (ISE)

In this session, you will gain a comprehensive understanding of Cisco ISE and its key components and how ISE integrates with DNA Center and Secure Exchange Protocol (SXP) so you will have an understanding of how to implement effective network access control and security policies.

DEMO:
ISE Walk Through

- What is ISE
  - Platform
  - Personas
  - Deployment Options
- Integrations
  - DNA Center
    - Requirements
  - Secure Exchange Protocol (SXP)
- Introduction to TrustSec
  - Scalable Groups
  - Policies
  - SGACL
- ISE for SD-Access
  - Authentication
  - Authorization
  - Policy-Sets
  - Policy Enforcement

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Session 4: Fabric Deployment

In this session, we will explore Cisco SD-Access. Topics covered include from an introduction to software-define networking, use cases, requirements, and an introduction to what an SD-Access network is.

DEMO:
Fabric Deployment

- Example SDA Fabric Design Overview
- DNA Center
  - Designing Fabric (Creating Objects)
  - LAN Automation
  - Deploying the Fabric
    - Virtual Networks
      - SVI Anycast Gateway
    - Role Assignments
    - Wireless
  - Fusion Router (IP Transit)

Session 5: SDA Design and Migration

In this session, you'll gain insights into designing SDA deployment options and migration strategies, specifically focusing on fabric forwarding techniques that facilitate smooth transitions from traditional network architectures to SDA.

DEMO:
Fabric Design Options

- Fabric Sub-Zones
- Multi-Fabric
- Deployment Options
- Migration Strategies Fabric Forwarding

CLICK TO VIEW UPCOMING SCHEDULE AND SIGN UP FOR EVENTS

We look forward to seeing you there!

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