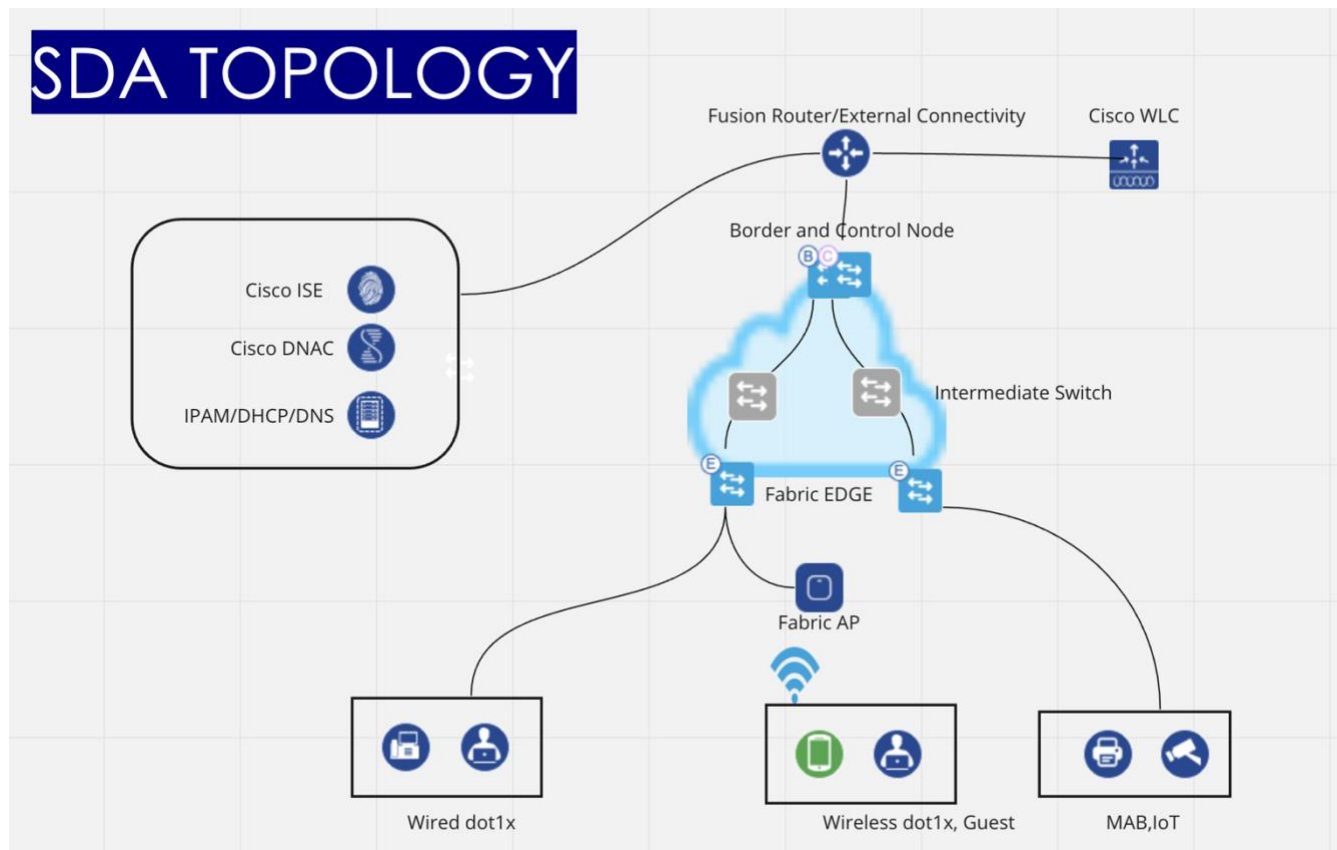# SD-Access Bootcamp

Learn to create Intent Based Networks

SDNTECH FORUM

Cisco DNA Center – SDA Bootcamp

Objectives

This is a hands-on course, designed to help the architect to build software defined access (SDA), as quickly as possible. The participant's in this course, will experience to build the Cisco SD-Access solution:

SD-Access Overview

Cisco's Software-Defined Access (SD-Access) solution is a programmable network architecture that provides software-based policy and segmentation from the edge of the network to the applications. SD-Access is implemented via Cisco Digital Network Architecture Center (Cisco DNA Center) which provides design settings, policy definition and automated provisioning of the network elements, as well as assurance analytics for an intelligent wired and wireless network.

SD-Access Component:

- Cisco DNA-C
- Cisco Identity Service Engine (ISE)
- Catalyst 9K and IOS-XE
- Cisco DNA Software Subscription

Lab Mode:

Recorded Demo with walkthrough of concept and Issues encountered.

Prerequisites

The participants should have prior knowledge of Cisco DNA-C platform and should have watched videos listed in reference section of this document.

Course Outline

The Course is delivered in phases with each some operation depended on previous ones.

1. DNAC Network Design

- DNAC new install
- ISE Install or upgrade
- DNAC and ISE integration
- Network Design
  - Network Hierarchy and Credentials
  - DNAC AAA
  - Network Profiler and Template
  - Image Repository
- Device Discovery and Provisioning

2. DNAC Policy – Macro & Micro Segmentation

- Create Virtual Networks
- Create Security Groups
- Create Access Contract and Policy
- ISE Authorization Profile
- Define ISE Policy Set

3. **DNA Underlay Fabric**

   - Border Node Discovery and Provisioning
   - Addition of Edge Node via LAN Automation
   - PnP Under the Hood
   - Edge – Apply Credential
   - DNAC SWIM – Edge node software Upgrade
   - Edge Node CLI upgrade – Bundle to Install mode conversion
   - Edge node provisioning and Telemetry

4. **Fabric Creation**

   - Create Fabric
   - Create Border Router and L3 Hand-Off
   - Add Edge Nodes to the Fabric
   - Host On-Boarding
   - Connect Wired Host and Validate

5. **Wireless Fabric**

   - Reset WLC
   - Join AP
   - Connect Wireless Host and Validate

6. **DNA-C Assurance**

   - Network Health
   - Client Health
   - Issues and Events
   - Manage subscription

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