DNAC Activation and Assurance Training

Duration: **4 Day**

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Overview

This is a 4-day instructor led workshop aimed at Cisco partners and customers who are/have deployed Cisco DNA / Catalyst Center. This class will help enable Cisco DNA / Catalyst Center adoption in a brownfield environment utilizing Assurance as a feature to manage and troubleshooting both a wired and wireless environment, followed by migrating to Software Defined Access for both Wired and Wireless.

This workshop will be a mix of theory (30%) and labs (70%) and is aimed at a technical audience. Theory based on latest version of DNA – continually updated content to reflect the latest version of the product.

The DNACAA course is part of Cisco Black Belt Academy Aligned Content. It belongs to the stage: EN - Cisco DNA Deployment Stage 2.

Prerequisites

Attendees should have prior knowledge of Routing, Switching and Wireless.

What You Will Learn

- Describe and Implement the need for DNAC in a Brownfield environment
- Visibility and Troubleshoot with Assurance
- Describe and Implement the need for a new networking model
- Describe the Cisco Software-Defined Access solution, its components and features
- Describe and Implement Cisco DNA / Catalyst Center as the management solution for the new architecture
- Implement a Wired SDA Infrastructure
- Implement a Wireless SDA Infrastructure
- Implement ETA with Stealthwatch
- Implement DNA Spaces

Outline

Day 1- Introduction to DNA – Wired and Wireless

- Introduction to DNA
- DNA / Catalyst Center Architecture
- DNA / Catalyst Center Installation
- DNA / Catalyst Center Disaster Recovery
- Software Updates
- DNA / Catalyst Center Workflow
- Build an inventory of wired and wireless devices

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- Manage the Wired and Wireless Inventory including troubleshooting tools
- Templates
- Automating Image Management with SWIM
- Command Runner
- Application Polices
- DNA / Catalyst Center as a Platform

Day 2 - Assurance and SDA Migration

- Assurance for Wired and Wireless
  - Insight using Assurance for both Wired and Wireless devices and clients
  - Using Assurance to troubleshoot both Wired and Wireless devices and clients
- ThousandEyes Integration
- Wireless as a Sensor
- Intelligent Capture
- Prime vs Cisco DNA / Catalyst Center
- Floor Maps
- Network Design for SD Access
- Migration strategy to SD Access
- SDA Architecture
- Underlay network Design
- Overlay Fabric Design
- Endpoint Analytics

Day 3 – SD-Access Wired

- ISE and DNA / Catalyst Center Integration[
  - Understanding Virtual Networks and SGTs in SD Access
  - Policy Enforcement with ISE and SDA
  - Cisco TrustSec Segmentation with ISE and SDA
- SDA Fabric Operation
- Wired SDA Implementation
- Shared Service with Border
- SDA for a Distributed Campus
- MultiSite – IP TRANSIT – SD Access TRANSIT – SD-WAN TRANSIT
- SD-Access Extranet – LISP Pub/Sub
- Extended Node

Day 4 – SD-Access Wireless

- SD Access Wireless Architecture and Solution Components
- SD Access Wireless Protocols and Communication Interfaces
- Designing Wireless Integration in SD Acess
- SD Access Wireless Guest Access Design
- High Availability in SD Access Wireless
- Wireless OTT
- AI-Enhanced RRM
- Prime Migration
- Stealthwatch with ETA