Digital Network Architecture Implementation Essentials v2.0 - DNAIE

Course Details

Course Outline

1. **Identifying Role of Digital Network Architecture in Contemporary Network**
   a. Identifying Cisco Digital Network Architecture Vision
   b. Identifying the Digital Network Architecture Solution
   c. Identifying the Role of Automation and Orchestration Controllers in DNA

2. **Implementing DNA Automation in Core Networks**
   a. Implementing Automation in Enterprise Networks
   b. Implementing Cisco Plug and Play Solutions
   c. Implementing an EasyQoS Solution
   d. Implementing Cisco Intelligent WAN Solution
   e. Troubleshooting Using Path Trace Application
   f. Implementing Cisco Enterprise Network Function Virtualization
   g. Implementing Network Programmability in a DNA Architecture

3. **Implementing Network Analytics in Cisco DNA**
   a. What is Network Analytics in Cisco DNA
   b. DNA Analytics Architecture
   c. DNA Analytics Proof Points
   d. Network Data Platform Architecture
   e. CMX on Premise
   f. Context-Aware Services Architecture
   g. CMS Connect
   h. Cisco CMX Analytics
   i. CMX API
   j. Cisco CMX Configuration
   k. Cisco CMX Cloud

4. **Implementing Security in a DNA Network**
   a. Pervasive Security

b. Introduction to NetFlow

c. Introduction to Cisco Stealthwatch

d. Introduction to Cisco ISE

e. Integrating Security Tools

5. **Implementing Enterprise Network Fabric in the DNA Architecture**

    a. Understanding the Enterprise Fabric

    b. Implementing DNA Secure Access

6. **Lab**

    a. Introducing Cisco APIC-EM GUI-Network, Devise and Topology Discovery Using APIC-EM

    b. Implementing Network Plug and Play using Cisco APIC-EM

    c. Implementing Easy QoS using Cisco APIC-EM GUI

    d. Site Provisioning and Monitoring using Cisco IWAN Application

    e. Path Trace Aplication using Cisco APIC-EM

    f. Site Provisioning with NFVIS on Cisco UCS C220 M3 Server Using OAM Servers

    g. Initial Switch and WLC Configuration for Cisco CMX

    h. Adding Maps to Cisco Prime Infrastructure

    i. Continuing to Add Maps to Cisco Prime Infrastructure

    j. AP Placement and Orientation

    k. Exporting Maps from Cisco Prime Infrastructure

    l. Performing the Initial Configuration of CMX

    m. Using the System Settings Menu to Configure Cisco CMX

    n. Adding Outline Wall to CMX Floor Plan Maps

    o. Using Detect and Connect

    p. Continuing to Customize Detect and Locate in CMX

    q. Working with Analytics in Cisco CMX

    r. Working with Customized Reports in the Analytics Service

    s. Continuing to Add Widgets toa Customized Report in CMX

    t. Initial Portal Creation in Connect and Engage

    u. Adding and Deleting an Element and Adding a Background Image to the Portal Template

    v. Customizing Text and Registration Elements in the Portal Template

    w. Exploring the Background Image, Themes, and Languages in the Portal Template

    x. Login ot the CMX Portal

y. Configuring the WKAN and Security in the WLC to Support CMX Cloud

z. Configuring an ACL in the WLC for use with CMX Cloud

aa. Create a Presence Site in CMX Cloud

bb. Connecting a Client to the Wi-Fi Network

cc. Working with Presence Analytics and Connect & Engage

dd. Using the Manage Function in CMX Cloud

ee. Meraki Integration with CMX Cloud