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Implementing and Administering DNA Center for Assurance

Varighed: 5 Days Kursus Kode: N1_IADNACA Version: 2.0

Beskrivelse:

In this workshop you will learn why we are implementing Assurance, what it looks like and key features. We will also discuss the Cisco DNA Center appliance and workflow and tasks associated with an implementation.

Målgruppe:

The primary audience for this course is as follows: IT Solution Architects Network Security Architects Networking Admin and OperationsNetworking Field Engineers

Agenda:

- After completing this course you should be able to:
- Know and understand Cisco DNA Center concepts, features, benefits, role, terminology and the way this solution innovates common administrative tasks on today's networks
- Be familiar with workflow approach in DNA Center, DNA Center dashboard and its 4 Steps: Design, Policy, Provision and Assurance
- List, describe and use the tools provided by Cisco DNA Center
- Prepare, Install and Setup a Cisco DNA Center Appliance
- Use DNA Center for network discovery, design and provision telemetry profiles

- Realize the concepts, benefits and capabilities of DNA Center Assurance
- Implement Assurance Services on Cisco DNA Center
- Use DNA Center to monitor, troubleshoot and assure network, client and applications health
- Use DNA Center to Integrate with ThousandEyes and Umbrella
- Use DNA Center to for AI and Analytics and Machine Learning (ML)

Forudsætninger:

Attendees should meet the following pre-requisites:

Practical network and LAN or WAN management experience
Cisco Inter-network Operating System (IOS) concepts

Test og certificering

Recommended as preparation for the following exams:

There are no exams currently aligned with this course

Indhold:

Day 1: Day 3: Module 1: Introduction to Cisco DNA Center Module 4: Monitoring Device, Client, and Assurance Application Health Introduction to DNA Center DNAC Telemetry System Architecture Monitoring Network Device Health and Key Features and Use Cases Performance Introduction to Cisco ISE and DNAC-ISE Monitoring Wired and Wireless Client integration Health and Performance Monitoring Application Health and Module 2: Design Performance Network design options Module 5: Application Visibility and DNAC Integration with Umbrella Sites Creating Enterprise and Sites Hierarchy Configuring General Network Settings Monitoring Application Visibility in DNA Loading maps into the GUI Center IP Address Management Umbrella Introduction Software Image Management – Lab on Day DNA Center Umbrella Integration and Use Cases 5 Network Device Profiles AAA Module 6: Troubleshooting Issues, Observing SNMP Insights and Trends Syslog IP address pools Detect Issues, Insights, and Trends in the Creating Enterprise and Guest SSIDs – Lab Network on Day 2 DNA Center Integration with other tools Creating the wireless RF Profile for Monitoring and Management

Day 4:

Module 7: Troubleshooting using Cisco DNA Center Assurance Tools

- DNAC Assurance Troubleshooting Tools
- Using Sensor Tests
- Using Intelligent Capture
- Spectrum Analysis

Module 8: DNAC and Thousand Eyes

- Introduction to ThousandEyes
- ThousandEves Use Cases
- DNA Center and ThousandEyes Integration

Day 5:

Module 9: AI Analytics and Machine Learning in DNA Center

- Overview of AI Analytics and ML (Machine Learning)
- DNA Center AI and ML Use Cases

Module 10: DNA Center Maintenance

- DNA Center Reports
- DNA Center Backup and Restore

Lab Outline:

Labs are designed to assure learners a whole practical experience, through the following practical activities:

- Lab 1: Navigate the Cisco DNA Center GUI
- Lab 2: Integrate Cisco ISE with Cisco DNA Center –Instructor Demo
- Lab 3: Design the Network Hierarchy and **Configure Network Settings**
- Lab 4: Discover Wired Manually in the Inventory, Assign to Site, and Provision
- Lab 5: Discover Wired Device using Plug and Play(PnP) using Template Editor
- Lab 6: Discover and Provision C9800 WLC, Configure Wireless SSIDs and **Network Profiles**
- Lab 7: Configure C9800 WLC using **Template Editor**
- Lab 8: Configure Cisco DNA Center Assurance Telemetry Profiles and Apply to Devices
- Lab 9: Generate and Monitor Application Traffic on DNAC for Clients
- Lab 10 : Application Visibility and Generate **Client Traffic to Monitor Top Applications** on DNAC
- Lab 11: DNAC Umbrella Integration for DNS or SIG(Secure Internet Gateway)
- Lab 12: Assurance Dashboards Health, Issues and Wi-Fi 6 on DNAC
- Lab 13: Intelligent Packet Capture and Spectrum Analysis
- Lab 14: 1800s AP as Sensor Instructor Demo
- Lab 15: Application Visibility With ThousandEyes and DNAC
- Lab 16: AI Endpoint Analytics on DNAC

- Cresting the Guest Portal for the Guest SSIDs
- Network profiles Lab on Day 2
- Authentication templates

Module 3: Discovery and Provision

- Device Discovery and Protocols
- Devices Onboarding
- Assigning Devices to a site
- Provisioning device with profiles
- Plug and Play
- Templates

Templates for Day-0

Templates for Day-N operations

Day 2:

Module 3: Discovery and Provision

- Device Discovery and Protocols
- Devices Onboarding
- Assigning Devices to a site
- Provisioning device with profiles
- Plug and Play
- Templates
- Templates for Day-0

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Templates for Day-N operations

Lab 17: Reporting on Cisco DNAC
Lab 18: IOS-XE Device Upgrade /

Downgrade using SWIM via DNAC

Lab 19: DNAC Configuration Backup on External Server – Instructor Demo

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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