

Monitoring and Troubleshooting Network Performance using Cisco DNA Center with

Course#:DNACAM

Duration:3 Day

Price:0.00

Course Description

Monitoring and Troubleshooting Network Performance using Cisco DNA Center with Assurance is a 3-day course which provides students with the skills to implement, monitor, troubleshoot, and remediate network infrastructure, applications, and devices using Cisco DNA Center Assurance tools and techniques.

Objectives

Upon completion of this course, you should be able to:

- Explain the role of Cisco DNA Center Assurance, its key features, use cases, and how it supports intent-based networking

- Configure Cisco DNA Center Assurance to collect network telemetry data and monitor the network devices, clients, and applications

- Interpret health scores of network devices, clients, and applications and plan remediation actions

- Use Cisco DNA Center Assurance to explore common troubleshooting issues of client onboarding and application QoS concerns

Audience

Anyone interested in DNA Center.

Prerequisites

The knowledge and skills that a learner must have before attending this course are as follows:

- CCNP Level Routing

- Understanding of Identity Services Engine

- Practical network and LAN or WAN management experience.

Content

Module 1:

Introduction to Cisco DNA Center Assurance

Introduction to DNA Center

System Architecture

Key Features and Use Cases

Getting Started

Navigating the GUI

Module 2:

Assurance System Architecture and Data Analytics

DNAC Assurance Concepts

Assurance Data and Metrics

Assurance Health Scores

Assurance Time Stamps and Data Refresh Concepts

Module 3:

Monitoring Device, Client, and Application Health

Monitoring Network Device Health and Performance

Monitoring Wired and Wireless Client Health and Performance

Monitoring Application Health and Performance

Module 4:

Analyzing Issues using Cisco DNA Center Assurance

Detecting Issues

View and Mediate Issues

Module 5:

Troubleshooting using Cisco DNA Center Assurance Tools

DNAC Assurance Troubleshooting Tools

Using Sensor Tests

Using Intelligent Capture

Labs

Hands-On Labs:

Lab 1: Navigate the Cisco DNA Center GUI

Lab 2: Integrating ISE with Cisco DNA Center

Lab 3: DNA Center Network Design, Hierarchy, Discovery and Inventory (Integrate Collectors: SNMP, Syslog and CMX Server)

Lab 4: Discovering the Catalyst 9500 Seed Switch

Lab 5: Configuring the Catalyst 9500 Seed Switch for the DNA Center PnP Provisioning Process

Lab 6: DNA Center Automation: Day0 Network Provisioning using Plug and Play(PnP) Template Editor

Lab 7: Discover Pod CSR Router in Cisco DNA Center

Lab 8: Provisioning Devices and Assigning them to Site in Cisco DNA Center

Lab 9: Configuring DNA Center Assurance Telemetry Profiles

Lab 10: Configuring DNA Center Assurance Maximum Visibility Telemetry Profile For Application Visibility

Lab 11: Connecting TFTP Server and TFTP Clients to the Network and Monitoring Application Traffic

Lab 12: Monitoring and Troubleshooting the Cisco DNA Center Assurance Network Health and Assurance Issues

Lab 13: DNA Center Assurance: Client Assurance, Health and Application Experience

Lab 14: DNA Center Assurance: Application Experience and Application Health

Lab 15: DNA Center Wireless Assurance