Cisco Nexus Dashboard Advanced

Duration: 180 Days **Course Code: DCNDA** **Version: 1.0** **Delivery Method: Elearning (Self-paced)**

Overview:

The **Data Center Nexus Dashboard Advanced (DCNDA)** training focuses on how to deploy and use Cisco Nexus Dashboard Insights (NDI) and Cisco Nexus Dashboard Orchestrator (NDO) to successfully monitor data center networks, and to provision a Cisco Application Centric Infrastructure (ACI)-based multisite network. The training is three days long and includes several activities that are either lab simulations or live labs. Activities that pertain to Nexus Dashboard Insights are implemented with lab simulations based on a real-world lab environment, while the lab activity related to Nexus Dashboard Orchestrator uses live software.

This course is worth 24 Continuing Education (CE) credits.

Target Audience:

Individuals who are involved in the deployment and use of Cisco Nexus dashboard Insights and Cisco Nexus dashboard Orchestrator

Objectives:

- **After completing this course you should be able to:**
- Describe Cisco Nexus Dashboard Insights
- Describe day-2 operational needs
- Describe the Cisco Nexus Dashboard Insights installation on Cisco Nexus Dashboard
- Describe Cisco Nexus Dashboard Insights switch telemetry
- Describe assurance analysis including multisite assurance
- Describe resource analysis
- Describe alerts analysis
- Describe Cisco NDI dashboards
- Describe the options for exporting data from NDI
- Describe Cisco NDI use cases
- Explore Cisco Nexus Dashboard Insights
- Explore vCenter Integration with Cisco NDI
- Explore Cisco NDI Assurance functions
- Describe Cisco Nexus Dashboard Orchestrator
- Describe Cisco NDO features and use cases
- Describe Cisco NDO platform support and the installation process
- Describe Cisco intersite connectivity
- Describe multisite schemas and templates
- Describe multipod and multisite integration
- Orchestrate Cisco NDO policies

Prerequisites:

Attendees should meet the following prerequisites:

- Understanding of Cisco routing and switching in a data center
- Fundamentals of network management and network operation
- Understanding of Cisco ACI
- DCFNDU - Understanding Cisco Data Center Foundations
- DCACI - Implementing Cisco Application Centric Infrastructure

Testing and Certification

Recommended as preparation for the following exams:

- There is no exam currently aligned to this course

Content:

Cisco Nexus Dashboards Insights Overview

- Cisco NDI Day-2 Operations
- Benefits of Using Cisco NDI

Day-2 Operational Needs

- Typical Needs of Day-2 Operations
- Day-2 Operational Tasks
- Challenges with Legacy Operational Tools

Cisco Nexus Dashboard Insights Installation on Cisco Nexus Dashboard

- Cisco NDI Application Installation Process
- Cisco NDI Installation on a Physical Cluster
- Cisco NDI Installation on a Virtual Cluster
- Cohosting Cisco NDI and Other Services

Cisco Nexus Dashboard Insights Switch Telemetry

- Telemetry Benefits
- Cisco NDI Persistent IP Addresses
- Flow Telemetry
- Flow Telemetry Events
- Software Telemetry

Assurance Analysis Including Multisite Assurance

- Service Assurance with Cisco NDI
- Assurance Analysis
- Connectivity Explorer
- Delta Analysis
- Pre-Change Analysis
- Compliance Analysis

Resource Analysis

- Browsing Resources
- Browsing Environmental Data
- Browsing Flows
- Browsing Endpoints
- Browsing Interfaces
- Browsing Events
- Browsing vCenters

Alerts Analysis

- Anomalies Analysis
- Advisories Analysis

Explore Cisco Nexus Dashboard Insights

- Discovery Lab 1: Explore Cisco Nexus Dashboard Insights

Cisco Nexus Dashboard Insights Dashboards

- Overview Dashboard and Central Dashboard
- Topology View
- Custom Dashboards in Cisco NDI

Options for Exporting Data from Cisco Nexus Dashboard Insights

- Operational Data Export from Cisco NDI
- Reports Export via Email
- Events Export through the Kafka Message Bus
- Syslog Messages Export
- Log Collection

Cisco Nexus Dashboard Insights Use Cases

- Is Efficient Troubleshooting Possible?
- Does Your Network Comply with the Business Intent?
- Is a Hardware Refresh Due Soon?
- Should I Expect Any Problem with the Upcoming Software Upgrade?
- Something Stopped Working - What Was the Cause?
- Does the Configured Policy Allow for an Endpoint to Reach a Specific Destination IP?
- If I make a Change in the Network, What would be the Consequences?

Cisco Nexus Dashboard Insights Integration with vCenter

- Discovery Lab 2: Configure and Explore vCenter Integration with Cisco NDI

Explore Cisco NDI Assurance Functions

- Discovery Lab 3: Explore Cisco NDI Assurance Functions

Cisco NDO Overview

- Need for Day2Ops Tools
- Cisco Nexus Dashboard as a Platform for Cisco NDO
- Cisco NDO Introduction

Cisco NDO Features and Use Cases

- Cisco NDO Key Features and Benefits
- Cisco NDO Use Cases
- Cisco NDO Licensing

Cisco NDO Platform Support and Installation

- Cisco NDO Installation
- Adding Sites to Cisco Nexus dashboard and Cisco NDO
- ISN Connectivity Provisioning

Cisco NDO with Cisco ACI Multisite

- Evolution to Multisite
- Cisco Multisite Architecture
- Namespace Normalization

Intersite Connectivity

- Intersite Control Plane
- Per BD Behavior
- Intersite BUM Traffic Data Plane
- Intersite Unicast Data Plane

Multisite Schemas and Templates

- Cisco NDO Schema and Templates
- Template and Policy Deployment Plan
- Multisite Connections to External Layer 3 Domains
- Template Versioning
- Template Disassociation

Multipod and Multisite Integration

- Cisco ACI Multipod and Multisite
- IPN and ISN Connection

Orchestrate Cisco NDO Policies

- Discovery Lab 4: Orchestrate Cisco NDO Policies

Labs

- Discovery Lab 1: Explore Cisco Nexus Dashboard Insights
- Discovery Lab 2: Configure and Explore vCenter Integration with Cisco NDI
- Discovery Lab 3: Explore Cisco NDI Assurance Functions
- Discovery Lab 4: Orchestrate Cisco NDO Policies

- Site Connectivity Configuration Using Cisco NDO

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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