Prime Data Center Network Management for Storage v7.2 - (DCNMSAN)

Course Details

Course Outline

1. **DCNM Functions for Storage Administration**
   - Cisco Prime Data Center Network Manager
   - Cisco Prime DCNM's End to End Visibility
   - Resource Management Scope and Capabilities in DCNM Manage Events and Troubleshoot
   - Tools Available for Configuration and Provisioning
   - DCNM Integration with Other Tools for End-to-End Visibility in Your Data Center

2. **DCNM Architecture/Components**
   - Cisco Prime DCNM Evolved Management Tool Cisco Prime DCNM Components
   - Characteristics of the DCNM Database
   - DCNM Product Support
   - Differences in features and how to use them
   - Changes from Features in 6 and Features in 7.

3. **DCNM High Availability**
   - Federated Server Architecture in HA Architecture
   - Server Federation Implementation
   - Automatic Fabric Failover Process

4. **DCNM Deployment**
   - DCNM Management Applications
   - DCNM Deployment Procedures
   - Initial Switch Setup
   - DCNM Installation Requirements
   - DCNM Server Installation Process
   - Upgrade Checklist for DCNM
   - DCNM-SAN Client Configuration Tool
   - DCNM SAN Licensing

5. **Administering Data Sources**

- Unified Discovery

- DCNM Fabric Discovery

- UCS Server Discovery

- DCNM and vCenter Integration

- Storage Discovery in DCNM and the SMI-S Feature

- Managing DCNM Licenses

- Configure AAA Properties

6. **Performance Administration**

- Historical Functions of Cisco Prim DCNM Performance Manager

- Methods of Real Time Performance Monitoring

- DCNM's Ability to Monitor Traffic and Forecast Trends

- Configure Flows and Collections using DCNM-SAN

- Client and Device Manager

- Methods of Real Time Performance Monitoring

- DCNM's Ability to Monitor Traffic and Forecast Trends

- Create Switch and Custom Port Groups

7. **Labs:**

- Lab: Launch DCNM Client and Setup MDS Switches

- Lab: Administering Data Sources

- Lab: DCNM Performance Administration

- Lab: Diagnostics and Event Management

- Lab: Troubleshooting and Diagnosing

- Troubleshoot tools with DCNM, to identifying a Slow Drain condition, pro-actively.

    - A host that cannot access its allocated storage.

    - An application that does not respond after attempting to access the allocated storage.

o **Lab: Installation and Upgrade Training**

- Updated features in DCNM 7.2 for reducing network congestion and slow drain devices.

- Slow Drain and Congestion Avoidance

- Port monitoring "templates" selection of the template