

# INFOSOFT IT SOLUTIONS

## Training | Projects | Placements

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## Cisco UCS Administration Training

### Overview about data centre server Management:

- 1 Evolution of server scalability
2. Management challenges that exist in modern data centers
3. Challenges faced by traditional blade server deployments

### The Cisco Unified Computing System:

1. Components of Cisco UCS
2. Logical view of the Cisco UCS
3. Standards and processes for the I/O Consolidation

### Defining Cisco UCS hardware Components:

1. Major Cisco UCS Hardware Components
2. Cisco UCS chassis hardware Components
3. Cisco UCS fabric Interconnect models
4. Cisco UCS Blade Servers and options

### Cisco UCS Architecture and installation Architectural and feature Overview :

1. Cisco UCS management Architecture

2. Various responsibility assignments within the cisco UCS environment

3. Diagnostic information available in Cisco UCS

4. High availability and disaster recovery capabilities of the Cisco UCS Manager

### **Installing Cisco UCS Hardware :**

1. Installation guidelines for the Cisco UCS Platform

2. Power supply configuration options for the Cisco UCS chassis

3. Install the various modules of a Cisco UCS Chassis

### **Describing Unified Connectivity :**

1. Hardware component connectivity

2. Connectivity between Fabric Interconnects for High availability

3. Fabric Interconnect network configuration

### **Cisco UCS Interaction and management Exploring the Unified computing User Interfaces :**

1. Graphical User Interface

2. Command Line Interface

3. Connect Commands

4. Cisco UCS startup and shutdown Procedures

### **Cisco UCS Manager Fundamentals :**

1. Resources managed by Cisco UCS

2. Cisco UCS resource Pools

3. Cisco UCS Service Profiles

4. Cisco UCS Service Profile Policies

5. Service Profiles in the basic opt-in model

6. Service Profile in the logical server model

### **LAN & SAN Connectivity Compute Node LAN Connectivity :**

1. Server and Uplink Ethernet ports in Cisco UCS

2. Ethernet Host Virtualizer mode

3. Ethernet switching mode

4. Configuration and use of VLANs in the Cisco UCS environment

5. Virtual Network Interface cards

6. Provisioning VLANs

7. Port channel configuration

8. How pin Groups function

9. LAN tools

### **Compute Node SAN Connectivity :**

1. NPIV

2. Configuration and Use of VSANs

3. Virtual host bus adapters

4. SAN uplink and server Fibre Channel ports

5. How Pins Group function

6. Provisioning VSANs

### **Service Profiles, Resource pools & Policies Resource Pools :**

1. Use of Mobile Service Profiles

2. MAC addresses and pools

3. Worldwide names and pools

4. UUID pools

5. Management IP Pools

6. Server Pools

7. Pool qualifier and policies

### **Creating & Managing Service Profiles :**

1. Create a Service Profile

2. Expert wizard to create a Service Profile

3. Create & Update Service Profile template

4. Scrub Policies

5. Associating Service Profiles with computer nodes

6. Process for moving a logical server

7. Use KVM and virtual media utilities to access a computer node

8. vNIC & vHBA creation and templates

### **Operating System Provisioning :**

1. SAN-based operating System installation

2. Local disk operating system installation

3. Network based operating system installation

### **Policies :**

1. MAC Policies

2. Ethernet Policies

3. WWNN Policies Scrub Policies

4. UUID policies

5. RAID Policies

6. Boot Policies

7. Power Policies

8. Equipment Policies

### **Securing Cisco UCS Role-Based Access Control :**

1. Cisco UCS Management Groups

2. Create Organizations

3. Create Locales

4. Create UsersCreate

5. RolesRole-Based Access Control

6. RBAC configuration

7. Remote RBAC Configuration

8. Configuration of AAA features and options

9. Integrating with Active Directory

### **Backup and Restore :**

1. Supported backup types

2. Backup and Inport Jobs

3. Configure Backup job

4. Configure import job

### **Maintenance of Cisco UCS Environment Managing High Availability**

1. High availability connectivity of Fabric interconnects

2. Cisco UCS regarding high availability
3. How to configure high availability
4. How to manage high availability

#### **Monitoring System Events :**

1. Event and failure monitoring using the GUI
2. Options for monitoring of Cisco UCS remotely
3. Monitoring of Cisco UCS from the CLI
4. Cisco UCS threshold policies
5. Configuration of call Home Policies
6. Data export capabilities of the Cisco UCS manager

#### **Upgrading Software in the Cisco Unified Computing System :**

1. Cisco UCS software upgrade process
2. Upgrade Cisco UCS fabric interconnect software
3. Upgrade CMC software
4. Upgrade BMC Software
5. Upgrade adapter software