

# INFOSOFT IT SOLUTIONS

## Training | Projects | Placements

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## Cisco UCS Training Course Content

### **Module 1: Overview about data center server Management:**

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

### **Module 2: 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

### **Module 3: 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

## **Module 4: 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

## **Module 5: 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

## **Module 6: Describing Unified Connectivity :**

- 1. Hardware component connectivity
- 2. Connectivity between Fabric Interconnects for High availability
- 3. Fabric Interconnect network configuration

## **Module 7: 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

### **Module 8: 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

### **Module 9: 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

## **Module 10: 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

## **Module 11: 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

## **Module 12: 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

### **Module 13: Operating System Provisioning :**

- 1. SAN-based operating System installation
- 2. Local disk operating system installation
- 3. Network based operating system installation

### **Module 14: 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

## **Module 15: 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

## **Module 16: Backup and Restore :**

- 1. Supported backup types
- 2. Backup and Inport Jobs
- 3. Configure Backup job
- 4. Configure import job

## **Module 17: 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

### **Module 18: 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

### **Module 19: 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