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UCS Director (Non-ACI) Advanced Developer
Course ID: UCSDDDC

Course Time:
3 Days

Course Description

This three-day hands-on course covers design, implementation, operation, and advanced configuration of Cisco UCS Director, and is designed to serve the needs of engineers seeking to understand the capabilities of UCS Director from a pre- and post-deployment perspective.

Learning Objectives

After this course you should be able to understand:

+ UCS Director Architecture
+ UCS Director Setup and Configuration
+ Discovery and Catalog Creation
+ Self Service Provisioning
+ Application Containers
+ Advanced Configuration Options – Tasks, REST API, Open Automation

Who Should Attend

+ Data Center Architects
+ Cloud Infrastructure Architects
+ Network Engineers
+ System Administrators
+ Storage Administrators
+ Engineers Requiring Advanced Configuration Skills

Prerequisites

+ Understanding of server design and architecture
+ Familiarity with Cisco UCS
+ Familiarity with Ethernet and TCP/IP
+ Familiarity with server virtualization
+ Familiarity with storage concepts

Course Content (continued on next page)

Module 1: Introduction
Lesson 1: Overview
+ Data Center Challenges
+ Cloud Layer Overview
+ UCSD Overview
+ Support Matrix
+ Management Feature

Module 2: UCSD Components
Lesson 1: Architecture
+ UCSD Architecture
+ BMA Architecture
+ Deployment Models

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Course Content

Module 3: UCSD Deployment
Lesson 1: Deployment
+ UCSD Installation
+ OVF Deployments
+ UCSD Shell Admin
+ UCSD – BMA Configuration

Lesson 2: Global System Settings
+ Licensing
+ Mail Setup
+ System Preferences
+ Support Information

Lesson 3: Site and POD Management

Module 4: UCSD Infrastructure Elements Management
Lesson 1: Discovery
+ Discovery Overview
+ Virtual Infrastructure Discovery
+ Physical Infrastructure Discovery

Module 5: UCSD Design
Lesson 1: Policies
+ Computing
+ Network
+ Storage
+ Service Delivery

Lesson 2: User Groups
+ Group Budget Policy
+ Resource Limits

Lesson 3: Users
+ User Roles
+ Manage User Profiles

Lesson 4: Virtual Data Center (vDC)

Lesson 5: Catalog

Module 6: Deploy
Lesson 1: Policies
Manage the system
+ Self Service Provisioning
+ Service Request

Module 7: Orchestration
Lesson 1: Orchestration
+ Tasks and Workflows
+ Workflow Templates

Module 8: Operate
Lesson 1: Operate
+ Chargeback
+ Reporting
+ Building custom reports using the report builder

Module 9: Application Containers
Lesson 1: Understanding Application Containers

Module 10: Tasks
Lesson 1: Understanding Tasks
+ Understanding Task Library
+ Understanding Task Inputs
+ Understanding SSH Task
+ Understanding CLI Tasks
+ Understanding Compound Tasks
+ Understanding Powershell Scripting
+ Understanding Cloupia Script
+ Custom Tasks

Module 11: REST API - Northbound
Lesson 1: REST API – Northbound
+ Overview
+ UCS Director Developer Menu
+ Accessing REST using a REST client
+ Accessing REST using the REST API browser

Module 12: Open Automation SDK
Lesson 1: Open Automation SDK
+ Overview
+ Open Automation Vs Custom Tasks
+ Use Cases

Lab 1: UCSD and BMA Installation
Lab 2: Discovery
Lab 3: UI Familiarization
Lab 4: Services Design
Lab 5: Catalog
Lab 6: Self Service Portal
Lab 7: Advanced Catalog
Lab 8: Workflow Design
Lab 9: Setting up Application Containers with a Linux firewall
Lab 10: SSH Script
Lab 11: Compound Task
Lab 12: Powershell Script
Lab 13: Cloupia Scriptab
Lab 14: Custom Tasks
Lab 15: Perform Read Operations, Write, Create SR through API

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