

UCS Director (Non-ACI) Advanced Developer

Course ID: UCSDDDC



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
- + UCS Director Overview
- + Support Matrix
- + Management Feature

Module 2: UCS Director Components

Lesson 1: Architecture

- + UCS Director Architecture
- + BMA Architecture
- + Deployment Models

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(3 Days)

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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