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Learning Style: Virtual Classroom

Technology: Cisco

Difficulty: Intermediate

Course Duration: 3 Days

Cisco CloudCenter Deployment & Administration Workshop (CCDAW)

About this course:

This is an instructor-led Cisco training course that will help you become familiar with the Cisco CloudCenter cloud management automation platform, with application modeling, deployment automation across multiple clouds, and other cloud

automation features. This CCDAW learning course will also provide you with CloudCenter use cases and solutions, as well as management integration with Cisco UCS Director, Cisco ACI fabric and other management tools. For learners seeking to understand the architecture, component, and operation of Cisco CloudCenter, we recommend reaching out to us at QuickStart for additional information. Course details and objectives can be found below.

Course Objective:

After you complete this course the learner will be able to meet these overall objectives:

- Understand the architecture, component and operation of Cisco CloudCenter
- Understand Cisco CloudCenter Use Cases and Solutions for Management Automation
- Understand the architecture of cloud infrastructure management
- Configure and integrate Public, Private and Hybrid Cloud services using Cisco CloudCenter
- Model N-Tier Application across multiple clouds using Cisco CloudCenter
- Deploy Advanced Application Services and Workflows using Cisco CloudCenter
- Configure the Cisco CloudCenter integration with Cisco ACI fabric, Cisco UCS Director and CICD
- Configure Application Scheduling, Benchmarking and Publishing using Cisco CloudCenter
- Configuring Hybrid Cloud services using Cisco CloudCenter
- Configuring Object sharing, policies and tagging in Cisco CloudCenter

Audience:

The primary audience for this course is as follows:

- Cisco Field Engineers
- Channel Partner Field Engineers
- Systems Administrators
- Systems Engineers

Prerequisite:

The knowledge and skills that the learner should have before attending this course are as follows:

- Familiarity with Cisco Data Center storage, networking and server virtualization and management technologies
- Understanding of Cisco Routing and Switching technologies

Course Outline:

Module 1: Cisco CloudCenter Fundamentals

- Lesson 1: Cloud Computing with CloudCenter

    - Cloud Computing Overview
    - What is Cisco CloudCenter?
        - Cloud Computing Management Automation Platform
        - Application-Centric Cloud Management Platform
        - Cisco Cloud Center Services, Functions and Values
        - Cisco CloudCenter Service Methodology
        - Cisco CloudCenter Integration, Capabilites and Use Cases
            - Deploy OS or VM in Data Center
            - Deploy workloads for multitenant orchestration
            - Model multi-tier application in cloud
            - Deploy end-to-end orchestration for multi-cloud
            - Hybrid IT as a Service
            - IT as a Service, DevOps, Capacity Augementation
            - Extend Integration with DevOps tools, APIC controller, UCS Director

- Lesson 2: Cisco CloudCenter Solution Overview

    - Cisco CloudCenter Use Cases
        - Application and Migration Management
        - Dynamic Capacity Augmentation
        - IT as a Service with Governance
        - DevOps and Continuous Delivery
    - Cisco CloudCenter Architecture and Core Components
        - Manager
        - Orchestrators
        - Application Profiles
        - AMQP
    - Cisco CloudCenter Deployment Models
        - Dedicated On-Premise
        - Dedicated On Public Cloud
        - Cloud-Center-as-a-Service

- Lesson 3: Public Cloud Provider Overview

    - Region Cloud Providers
    - Regions and Availability Zones
    - AWS Global Infrastructure
    - Core Services
    - Machine Images and Instance Type
    - Connecting to AWS EC2 Instance

- Lesson 4: Cisco CloudCenter Administration

- Cloud Configuration
- Configuring Repository
- Configuring Deployment Environments
- Configuring Usage and Fees
- User Administration

Module 2: Deploying and Configuring Cisco CloudCenter Applications

- Lesson 1: Application Modeling with Cisco CloudCenter

  - Gathering Application requirements
  - Modeling Applications
  - Deploying Applications
  - Deploy a Single VM

- Lesson 2: Deploying Advanced Application with Cisco CloudCenter

  - Configuring Application Parameters
    - Types of Parameters, Custom Parameters
    - Using Macros
    - Passing Parameters within Scripts
  - Deployment Lifecycle
    - Scripting automation
    - Workflow automation

- Lesson 3: Deploying Cisco CloudCenter Custom Services

  - CloudCenter Services Types
  - Custom Service Deployment

- Lesson 4: Hybrid Cloud Deployment using Cisco CloudCenter

  - Deploying Hybrid Cloud Application

- Lesson 5: Integrating Cisco CloudCenter with Cisco ACI

  - Cisco ACI with Cisco CloudCenter Integration Overview
  - Configuring Cloud for Cisco ACI

- Lesson 6: Integrating Cisco CloudCenter with CICD

  - CICD Project Board
  - Creating Projects
  - Access Control and Permission

○ Promoting Applications

Module 3: Management Integration with Cisco CloudCenter

- Lesson 1: Cisco UCS Director Integration with Cisco CloudCenter
- Lesson 2: CICD Integration with Cisco CloudCenter
- Lesson 3: Sharing Objects in Cisco CloudCenter
- Lesson 4: Managing Policies in Cisco CloudCenter
    - Configuring Action Polices
    - Configuring Scaling Polices
    - Configuring Aging Policies
- Lesson 5: Application Scheduling, Benchmarking and Publishing

Lab Outline

- Cisco CloudCenter GUI Navigation
- Cisco CloudCenter Application Consumption
- Configurig Cisco CloudCenter Cloud Repository, Deployment Environments and Administration
- Configuring Usages, Fees and Subtenant Administration
- Deploying Single-Tier OS Services
- Deploying Multi-Tier Application in Private Cloud
- Deploying Multi-Tier Application in Public Cloud
- Deploying Multi-Tier Application with integrated Cisco ACI fabric
- Configuring Cisco UCS Director Integration with Cisco CloudCenter
- Configuring Application Benchmarking
- Configuring sharing objects in Cisco CloudCenter
- Publishing Applications with Cisco CloudCenter
- Managing Policies with Cisco CloudCenter
- Tagging and Government with Cisco CloudCenter