
Implementing Cisco Unified Communications Manager on a Virtual Infrastructure

Duration: 5 Days **Course Code: UCV-DEPLOY** **Version: 8.7**

Overview:

Jointly developed by the world's leading educators in Cisco UCS and Unified Communications, this course will teach you how to deploy Cisco UC applications on the Cisco UCS and VMware ESXi platforms to more easily manage and scale Voice over IP applications. The course includes a broad and detailed examination of the end-to-end virtual infrastructure for virtualized UC, starting with an overview of the UCS stateless computing model, VMware virtualization, and storage options, and proceeding to detailed deployment and migration planning guidelines. Important enhancements to Cisco Unified Call Manager 8.6, such as SME, are also discussed. SME provides a central point of aggregation for IP PSTN access, UC applications, and third-party PBX integration.

Target Audience:

This course is designed for experienced Unified Communications engineers and administrators who will be deploying or managing Cisco Unified Communications applications in a virtualized Cisco Unified Computing System environment.

Objectives:

- Describe the unique characteristics of the Cisco Unified Computing environment
 - Identify the benefits of application virtualization on the UCS server platform
 - Understand the storage and VMware concepts associated with UC on UCS
 - Describe requirements for running Cisco Unified Communications in a virtual environment
 - Configure the Cisco Unified Computing System, including LAN and SAN connectivity
 - Configure VMware for UC on UCS deployments
 - Create, deploy, and manage stateless server profiles
 - Install VMware ESXi on UCS and create and manage virtual machines
 - Deploy Cisco Unified Communications Manager (CM) v8.6 on UCS
 - Migrate Unified CM from a physical to a virtual environment
 - Describe and implement new features in Unified CM v8.6
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Prerequisites:

You will gain the most from this course if you have experience deploying and managing previous versions of Cisco Unified Communications applications.

Content:

Module 1: Cisco Unified Computing System Overview

- Lesson 1: Cisco Virtualized Data Center Architecture
- Lesson 2: Virtualization Technologies and Benefits
- Lesson 3: Storage and VMware Concepts for UC on UCS
- Lesson 4: Cisco Unified Computing System Architecture

Module 2: Implementing Cisco UCS

- Lesson 1: Hardware Components
- Lesson 2: Hardware Installation and Startup
- Lesson 3: UCS Management Architecture
- Lesson 4: Managing System Software
- Lesson 5: LAN Connectivity
- Lesson 6: Software and Hardware VN-Link
- Lesson 7: SAN Connectivity

Module 3: Cisco UCS Service Profiles

- Lesson 1: Stateless Server Provisioning
- Lesson 2: Creating Service Profiles
- Lesson 3: Creating Identity and Resource Pools
- Lesson 4: Managing Service Profiles

Module 4: Configuring VMware ESXi on UCS

- Lesson 1: Server Virtualization Primer
- Lesson 2: Configuring VMware Networking and Storage
- Lesson 3: Creating and Managing Virtual Machines

Module 5: Cisco Unified Communications Manager Virtualization

- Lesson 1: Deploying Virtualized Unified Communications
- Lesson 2: Installing Unified Communications Applications
- Lesson 3: Migrating a Physical Unified CM to a Virtual Unified CM

Module 6: Cisco Unified Communications Manager

- Lesson 1: Unified Call Manager Updates

Lab 1: UCS Initial Configuration

Lab 2: Backing Up and Importing Data

Lab 3: Service Profile with ESXi Installation and VMware Datastore on DAS

Lab 4: Configuring Resource Pools

Lab 5: Mobile Service Profile with ESXi Installation and VMware Datastore on SAN

Lab 6: VMware Networking and Storage Configuration

Lab 7: Installing Cisco Unified CM on UCS

Lab 8: Physical to Virtual Migration

Lab 9: Virtualized Applications Deployment Case Study

Lab 10: Configuring SIP Early Offer

Lab 11: Configuring Unified CM SME

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 01113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.co.uk

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK