

# Cisco Unified Computing System for Implementation Professionals v5.2

UCS-IP



**Delivery Type:** Classroom

**Duration:** 5 days

## Overview

The Cisco Unified Computing System for Implementation Professionals is a five-day, hands-on course designed for system engineers, datacenter administrators, technicians, and architects implementing Cisco Unified Computing System B- and C-Series Servers.

The course teaches how to deploy, configure, and manage UCS servers with consolidated I/O networking for LAN and SAN connectivity including multi-hop FCoE. It teaches how to virtualize server properties with the goal of enabling simple and rapid mobility of service profiles between physical servers.

In the lab students will configure mobile service profiles, upgrade firmware, configure a multi-tenant management model, enable high availability and fault tolerance as well as perform back-ups and restore system configurations.

Students will learn to use the built-in monitoring and troubleshooting tools. They will also install and

configure VMware VM-FEX and VM-FEX Universal Pass-Through Mode with the Cisco Virtual Interface Card on the Cisco UCS infrastructure in four separate lab exercises.

## Target Audience

This course prepares students for exam 642-999, Implementing Cisco Data Center Unified Computing. Upon passing this exam, the student will be a certified Cisco Data Center Unified Computing Support Specialist and be able to configure, implement, and manage UCS environments.

## Pre-Requisites

Attendees should meet the following prerequisites:

- ✓ Understanding of server system design and architecture
- ✓ Familiarity with Ethernet and TCP/IP Networking
- ✓ Familiarity with LAN/SAN Technology
- ✓ Familiarity with Fibre Channel Protocol
- ✓ Understanding of Cisco Enterprise Data Center Architecture
- ✓ Familiarity with server virtualization technologies (VMware vSphere, Microsoft Hyper-V, Red Hat KVM, Citrix Xen)

## Objectives

After completing this course, you should be able to:

- ✓ Describe the Cisco UCS B-Series Management and System Architecture in UCS Manager 2.1.
- ✓ Implement system management, maintenance, and high-availability services for Cisco UCS B- and C-Series Servers.
- ✓ Configure Cisco UCS Stateless Computing using resource pools, templates, and policies with Cisco Unified Fabric.
- ✓ Discuss how to manage firmware upgrades.
- ✓ Describe how to provision the Cisco UCS Compute Resources.
- ✓ Discuss how to troubleshoot errors and faults using the built-in logging systems.
- ✓ Describe how to monitor performance statistics using the built-in tools.
- ✓ Install Cisco R-Series rack enclosures in the data center.
- ✓ Describe Cisco UCS C-Series System architecture and hardware components in UCS Manager 2.1.
- ✓ Describe Cisco C-Series stand-alone operations.
- ✓ Describe Cisco UCS C-Series Integration with UCSM 2.1.
- ✓ Implement Stateless Computing on B- and C-Series Servers.
- ✓ Explain and configure Cisco UCS VM-FEX technology in UCS Manager 2.1 in a VMware environment.

## Certification

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