

Migrating to VMware Cloud Foundation [v5.0]

Duration: 3 Days

Course Overview

This three-day course is designed to provide VMware vSphere® administrators with the knowledge and hands-on experience in managing VMware Cloud Foundation™ in a hybrid cloud environment and utilizing VMware HCX® for workload migration.

Product Alignment

- VMware Cloud Foundation 5.0 • VMware HCX 4.7

Who should attend

- Experienced System Administrators • System Engineers
- System Integrators • Migration Engineers • Migration Architects

Prerequisites

This course requires the following knowledge/experience;

- Experience administering vSphere environment
- Experience administering VMware Cloud Foundation environment

This knowledge/experience can be acquired by completion of the following courses:

- [VMware vSphere: Install, Configure, Manage \[V8\]](#)
- [VMware Cloud Foundation: Deploy, Configure, Manage \[V5.0\]](#)

Course Objectives

By the end of the course, you should be able to meet the following objectives:

- Describe the components and architecture of VMware Cloud Foundation
- Describe the key features and capabilities of VMware HCX
- Explain the architecture of VMware HCX and its components
- Understand the migration types that VMware HCX supports, including VMware HCX® vMotion®, HCX Bulk migration, and HCX Replication Assisted vMotion
- Plan and execute migrations using VMware HCX migration plans
- Describe how VMware HCX addresses migration challenges through its network extension capabilities
- Define the concept of network extension within the context of VMware HCX

Course Outline

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 VMware Cloud Foundation Overview

- Describe the components and architecture of VMware Cloud Foundation
- Explain the benefits of VMware Cloud Foundation in a hybrid cloud environment
- Identify the features of VMware Cloud Console

3 Introduction to VMware HCX

- Describe the key features and capabilities of VMware HCX
- Explain the architecture of VMware HCX and its components
- Discuss the purpose of HCX Manager, HCX Interconnect, and HCX mobility components
- Install and configure HCX Manager
- Set up interconnects between a legacy vSphere environment and VMware Cloud Foundation
- Manage VMware HCX services and networks

4 Workload Migration with VMware HCX

- Describe the migration types that VMware HCX supports, including vSphere vMotion, HCX Bulk migration, and HCX Replication Assisted vMotion
- Perform live migration of workloads between legacy vSphere and VMware Cloud Foundation environments using VMware HCX
- Plan and execute migrations using VMware HCX migration plans
- Explain how VMware HCX enables seamless connectivity between on-premises data centers and cloud environments
- Identify common challenges associated with establishing network connectivity in hybrid cloud scenarios
- Describe how VMware HCX addresses these challenges through its network extension capabilities
- Define the concept of network extension in the context of VMware HCX