



VMware HCX: Management and Operations

1 Course Introduction

- Introductions and course logistics
- Course objectives

2 Introduction to VMware HCX

- Describe workload mobility challenges that VMware HCX addresses
- Recognize use cases for VMware HCX
- Identify all major Cloud providers offering and supporting VMware HCX

3 HCX Services and Deployment Types

- Describe the functions of VMware HCX components
- Recognize the services provided by VMware HCX
- Recognize when to use different deployment types for VMware HCX
- Be able to choose which components to install and configure for a different VMware HCX service

4 HCX Deployment

- Identify the resource, network, and ESXi/VMware vCenter server requirements for VMware HCX
- Understand the VMware vCenter user roles and access requirements
- Describe the installation workflow
- Install, activate, and configure VMware HCX manager
- Understand the compute and network profile requirements for VMware HCX and its services
- Create site pair, compute, and network profiles
- Describe and manage the HCX Service Mesh
- Create and configure a HCX Service Mesh

5 Network Extension

- Describe network extension use case and benefits



- Compare the HCX-Network extension service with other solutions
- Examine Network Extension capabilities and topology
- Create a Network Extension
- Describe network traffic packet flow
- Describe Mobility Optimized Networking
- Enable Mobility Optimized Networking
- Describe the TCP Flow Conditioning and Application path resiliency feature of VMware HCX
- Recognize the key benefits of TCP flow conditioning and Application path resiliency
- Describe WAN optimization

6 Workload Mobility

- Describe different migration types
- Recognize the limitation of each migration method and consideration when planning a migration
- Understand Bulk and Replication Assisted VMware HCX® vMotion® migration methods
- Migrate a VM using Bulk migration
- Describe cold and vMotion migration method
- Migrate a VM using HCX vMotion migration
- Examine non VMware vSphere® workload migration
- Migrate a VM using an OS assisted migration method

7 Business Continuity and Disaster Recovery

- Examine disaster recovery concepts
- Describe disaster recovery networks
- Plan and create disaster recovery networks
- Describe VM protection operations
- Protect, recover, and test recovery and reverse replication of a VM
- Understand VMware HCX and SRM integration and value

8 HCX Lifecycle Management

- Backup and restore the VMware HCX manager



- Locate and access VMware HCX logs
- Troubleshoot VMware HCX
- Plan for VMware HCX manager and component updates

9 Customer Design Scenarios

- Design a VMware HCX deployment
- Choose workload mobility methods for the migration
- Discuss customer requirements and proposed design
- Discuss components, services, and migration methods for the scenario