VMware HCX: Management and Operations (HCXMO)

ID HCXMO   **Prix** 2 760,– € (Hors Taxe)   **Durée** 4 jours

A qui s'adresse cette formation

- System administrators
- System engineers
- Migration engineers
- Migration architects

Pré-requis

This course has the following required prerequisites:

- VMware NSX-T Data Center: Troubleshooting and Operations [V3.2] (NSXTTO32) or equivalent strong networking experience
- VMware vSphere: Install, Configure, Manage [V7] (VSICM8)
- Disaster recovery and business continuity fundamentals

Objectifs

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

- Describe core VMware HCX use cases and common triggers for mobility
- Describe the core components and features of VMware HCX
- Describe a real-life example of a VMware HCX project
- Identify all major Cloud Providers offering and supporting VMware HCX
- Describe the features of VMware HCX services
- Explain the different deployment types for VMware HCX and choose the correct components to deploy for a particular use case
- Understand the resource, network, and VMware ESXi™ and VMware vCenter® requirements for VMware HCX
- Install and configure VMware HCX
- Understand, deploy, and manage the HCX Service Mesh
- Understand Network Extension and Traffic Engineering
- Create Network Extension and enable Mobility Optimized Networking
- Understand WAN Optimization
- Understand the different migration types and be able to choose the best one for different applications and

workloads
- Incorporate VMware HCX into a disaster recovery strategy
- Design a VMware HCX deployment for different use cases
- Manage the lifecycle of VMware HCX

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Course Introduction

- Introductions and course logistics
- Course objectives

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

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

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

Network Extension

- Describe network extension use case and benefits

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- 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

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

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
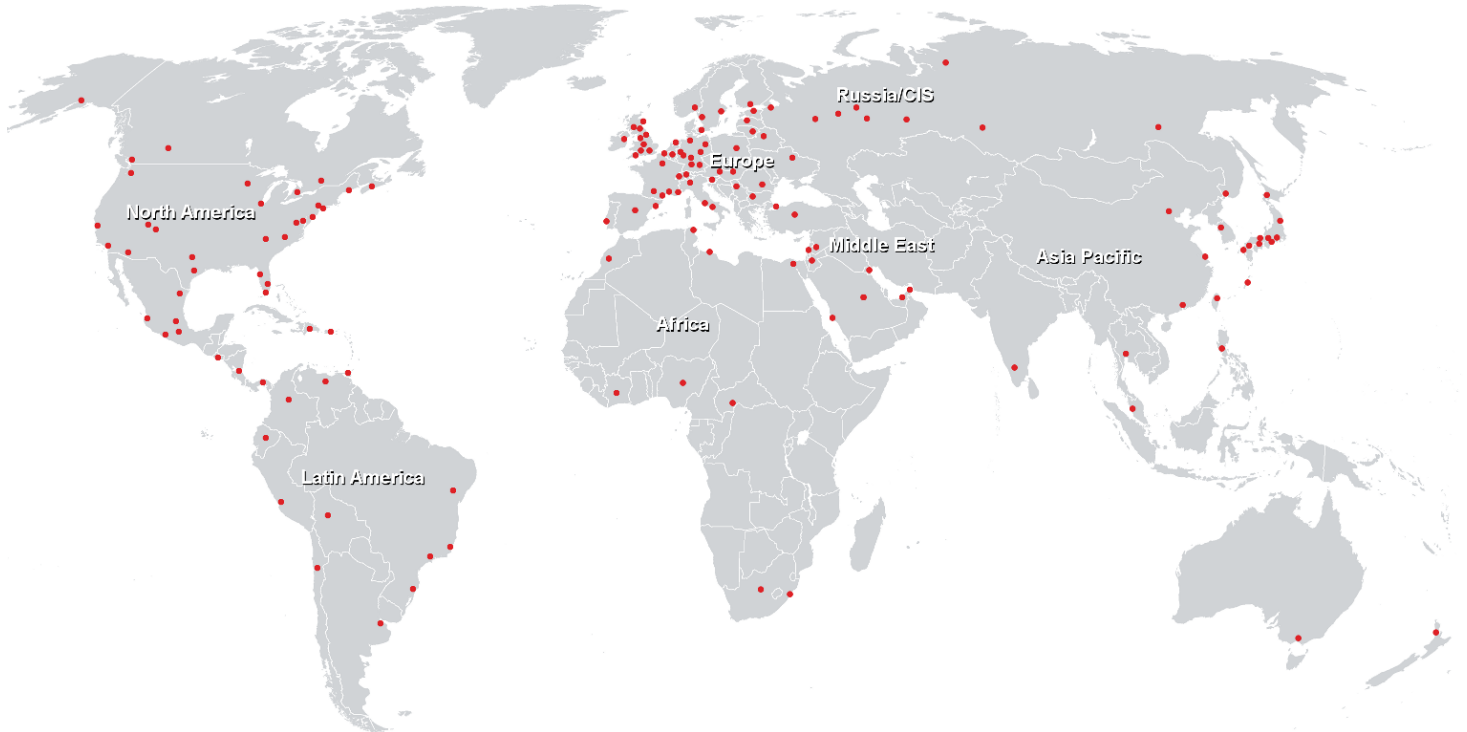
HCX Lifecycle Management

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

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

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