VMware HCX: Deploy, Configure, Manage (HCXDCM)

ID HCXDCM   **Price** 2,070.— €(excl. VAT)   **Duration** 3 days

Who should attend

System administrators, system engineers, migration engineers, and migration architects.

Prerequisites

The course has the following required prerequisites:

- VMware NSX: Install, Configure, Manage [V4.0] (NSXICM4) or equivalent strong networking experience.
- VMware vSphere: Install, Configure, Manage [V8] (VSICM8)
- Disaster recovery and business continuity fundamentals.

Course Objectives

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

- Describe the workload mobility challenges that VMware HCX addresses.
- Recognize uses cases for VMware HCX.
- Describe the HCX management plane and data plane components.
- Describe the services provided by HCX and recognize the HCX appliances deployed to support each service.
- Deploy HCX Cloud and HCX Connector and configure site-pairing.
- Use network and compute profiles to deploy the HCX Service Mesh.
- Explain the use cases and benefits of HCX+.
- Perform site onboarding and configuration on HCX+
- Describe and configure HCX Network Extension.
- Describe the WAN Optimization and Traffic Engineering capabilities of HCX.
- Differentiate between HCX migration types and their use cases.
- Use VMware HCX to implement a business continuity strategy.
- Manage the lifecycle of VMware HCX.

Course Content

Course Introduction

- Introductions and course logistics
- Course objectives

Introduction to VMware HCX

- Describe the workload mobility challenges that VMware HCX addresses.
- Recognize uses cases for VMware HCX.
- Describe the VMware HCX uses cases related to application migration, upgrades or re-platforms, workload rebalancing, and business continuity and protection.

HCX Architecture

- Describe the HCX management plane and data plane components.
- Distinguish between the types of HCX Manager deployments.
- Explain the role of HCX Cloud and HCX Connector.
- Describe site-pairing at the management plane level.
- Describe the services provided by HCX.
- Recognize the HCX appliances deployed to support each HCX service.
- Explain HCX Service Mesh and its benefits.

HCX Deployment

- Identify the type of environments that can be interconnected in HCX.
- Explain the different deployment topologies for HCX.
- Deploy HCX Cloud on SDDC and on the public cloud.
- Deploy HCX Connector on-premises.
- Establish site pairing between the source and destination sites.
- Troubleshoot common HCX Manager deployment and site pairing problems.

Service Mesh Deployment

- Use network and compute profiles to deploy the HCX Service Mesh.
- Recognize different types of Service Mesh topologies.
- Identify and troubleshoot common issues with Service

Mesh deployments.

HCX+ Overview

- Explain the use cases and benefits of HCX+.
- Perform site onboarding and configuration on HCX+

HCX Network Extension

- Explain the functionality, benefits and use cases of HCX Network Extension.
- Compare HCX Network Extension with other L2 extension solutions.
- Distinguish between HCX Network Extension topologies.
- Describe the benefits of HCX Network Extension High Availability.
- Create a network extension and validate its configuration.
- Describe the benefits of Mobility Optimized Networking (MON).
- Configure a HCX Network Extension with MON.
- Identify and troubleshoot common issues with HCX Network Extension and MON.

WAN Optimization and Traffic Engineering

- Describe the benefits and used cases of WAN Optimization and Traffic Engineering.
- Configure WAN Optimization and Traffic Engineering.
- Identify and troubleshoot common issues with WAN Optimization and Traffic Engineering.

Workload Mobility

- Identify the different phases of an HCX migration.
- Differentiate between HCX migration types and their use cases.
- Describe the workflow for HCX Cold and vMotion migrations.
- Explain the considerations and limitations of HCX Cold and vMotion migrations.
- Perform HCX Cold and vMotion migrations.
- Identify and troubleshoot common issues with HCX Cold and vMotion migrations.
- Describe the workflow for Bulk Migrations and Replication Assisted vMotion migrations.
- Explain the considerations and limitations of Bulk Migrations and Replication Assisted vMotion migrations.
- Perform Bulk Migrations and Replication Assisted vMotion migrations.
- Identify and troubleshoot common issues with Bulk Migrations and Replication Assisted vMotion migrations.
- Describe the workflow for HCX OS Assisted migrations.
- Explain the considerations and limitations of HCX OS Assisted migrations.

- Perform HCX OS Assisted migrations.
- Identify and troubleshoot common issues with HCX OS Assisted migrations.

Business Continuity and Disaster Recovery

- Explain disaster recovery concepts and considerations.
- Use VMware HCX to implement a business continuity strategy.

HCX Lifecycle Management

- Backup and restore the HCX Manager.
- Upgrade HCX components.

Training Centres worldwide

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