

VMware HCX 4.5.2 Release Notes

VMware HCX 4.5.2

You can find the most up-to-date technical documentation on the VMware website at:

<https://docs.vmware.com/>

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Contents

- 1** Introduction 4
- 2** About VMware HCX 5
- 3** System Requirements and Compatibility 6
- 4** Installation and Upgrade 7
- 5** What's New 8
- 6** Resolved Issues 9
- 7** Security Issues 10
- 8** Product Support Notices 11

Introduction

1

VMware HCX 4.5.2 | 14 DEC 2022 | Build 20914338 (Connector), 20914430 (Cloud)

Check for additions and updates to these release notes.

About VMware HCX

2

VMware HCX delivers secure and seamless application mobility and infrastructure hybridity across both on-premises and in the cloud. HCX abstracts the distinct private or public vSphere resources and presents a Service Mesh as an end-to-end entity. HCX Interconnect can then provide high-performance, secure, and optimized multi-site connectivity to achieve infrastructure hybridity and present multiple options for bi-directional virtual machine mobility with technologies that facilitate the modernization of legacy data centers.

For more information, see the [VMware HCX User Guide](#) in the VMware Documentation Center.

System Requirements and Compatibility

3

For HCX deployment requirements, see [Preparing for HCX Installation](#).

The following resources provide information related to HCX deployments:

- For information regarding VMware product compatibility by version, see [Product Interoperability Matrix](#).
- For appliance limit information, see [VMware Configurations Maximums](#).
- For more information on where you can view port and protocol information for various VMware products in a single dashboard and to export an offline copy of the selected data, see [VMware Ports and Protocols](#).
- For information about General Availability (GA), End of Support (EoS), End of Technical Guidance (EoTG) for VMware software, see [VMware Product Lifecycle Matrix](#).

Installation and Upgrade

4

Installing HCX 4.5.2

For sample installation workflows by deployment type, see [Installing the HCX Manager Appliance](#).

Upgrading to HCX 4.5.2

■ Requirements:

- Upgrading to HCX 4.5.2 from HCX 4.2 or above is supported.
- Upgrading to HCX 4.5.2 from all versions less than 4.2 requires a full upgrade to 4.3.3 first.
- All site paired systems must be upgraded.
- All Service Mesh appliances must be upgraded to 4.5.2.

■ Upgrade snapshots

- During upgrades to HCX 4.5.2, HCX Manager snapshots are taken automatically.
- Upgrade snapshots are only taken when an HCX Manager is deployed on the same vCenter Server registered to it. For other deployments, manual snapshots can be taken.
- HCX retains automatic snapshots for 24 hours before deleting them.

Note: To restore the HCX Manager from a snapshot, contact VMware Support.

- VMware sends administrative messages to HCX systems that are running out of support and require upgrade.
- Upgrade compatibility information is available as a table in [VMware Product Interoperability Matrix - Upgrade Path](#).

Important HCX 4.5.2 introduces new security requirements for OS Assisted Migration (OSAM). If you have OSAM running in your environment, you must upgrade HCX Connector, HCX Cloud Manager, and the HCX OSAM data plane appliances (Sentinel Gateway, Sentinel Data Receiver) to HCX 4.5.2. Additionally, you must upgrade Sentinel agents running on the source workload to HCX 4.5.2. If all appliances are not upgraded to 4.5.2, migrations can stall and must be started again after upgrade.

What's New

5

VMware HCX 4.5.2 is a maintenance release that includes a Network Extension enhancement, resolves issues reported in prior releases, and provides important security enhancements.

Network Extension Support for Custom DLR MAC Addresses

Previously, HCX did not support network extension where the source environment has a non-default [VDR MAC](#). With this release, HCX now supports extending a network where the source VDR MAC has been changed from the default.

Resolved Issues

6

Resolved Migration Issues

PR/3050235 - After canceling a vMotion migration, the upcoming vMotion and RAV migrations get stuck and do not complete.

PR/3066628 - During migration, error messages stated a vmdk disk size of 1024 by default. HCX now displays the vmdk disk multiplication factor based on the actual source disk size.

Resolved Management Issues

PR/3052371 - The HCX Manager appliance experiences high CPU loads in environments with large numbers of hosts.

PR/3062011 - HCX Network Extension (NE) appliance might experience a system/kernel crash during data traffic forwarding.

PR/3053735 - Viewing the Network Extension High Availability APIs in the HCX API Explorer (<https://<hcxmgr-ip-or-fqdn>/hybridty/docs>) displays errors.

Resolved Network Extension Issues

PR/3062905 - Updating or redeploying the Network Extension service mesh appliance can disrupt traffic on the extended network.

PR/3075309 - The status for MON-enabled virtual machines on a stretched network shows "Waiting for IP" when the VM is correctly located within the stretched network subnet.

Security Issues

7

- This release includes important security enhancements and updates.

Product Support Notices



Non-compatibility with VSAN 8 ESA

- Currently available HCX releases are not compatible with VSAN 8 Express Storage Architecture (ESA). Interoperability with VSAN 8 ESA is planned for an upcoming release.

Non-compatibility of HCX MON with Onprem Gateway using first hop redundancy protocols (HSRP/VRRP)

- This HCX release is not compatible with Onprem Gateway/Router using FHRP when using MON (Mobility Optimized Networking). Interoperability of MON with Onprem Gateway/Router using FHRP is planned for an upcoming release. Refer to VMware Knowledge Base [85849](#) for more information.

About NSX for vSphere systems in Extended Support

- NSX for vSphere General Support ended on January 16, 2022.
- NSX for vSphere systems in Technical Guidance (under Extended Support contracts) are only supported at the evacuation site (source), with HCX Connector.
- To determine the HCX Connector version for evacuation, refer to VMware KB articles [82702](#) and [71398](#).

Note that HCX Cloud installations require current (Generally Available) VMware software components. NSX for vSphere is not suitable or supported for HCX Cloud installations.