



# VMware HCX 4.2.0 Release Notes

**Updated on: 05 Aug 2021**

VMware HCX 4.2.0 | 05 AUG 2021 | Build 18422311 (Connector), Build 18422312 (Cloud)

Check for additions and updates to these release notes.

## What's in the Release Notes

The release notes cover the following topics:

- [About VMware HCX](#)
- [Before You Begin](#)
- [What's New in this Release](#)
- [Resolved Issues](#)

## About VMware HCX

VMware HCX delivers secure and seamless app mobility and infrastructure hybridity across vSphere 6.0 and later versions, 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. The 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.

## Before You Begin

### Upgrading to HCX 4.2

Review the following information prior to upgrading from R-based releases to HCX 4.2:

- Upgrading to HCX 4.2.0 is supported only from HCX 4.0.x.
- HCX 4.0.0 is the oldest version suitable for upgrade. Customers running older releases are required to upgrade to HCX 4.0.X to support upgrading to HCX 4.2.0
- Assistance with upgrading from out-of-support releases will be on a best-effort basis.
- 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](#)

## Early Adoption Features

Early Adoption (EA) denotes an initial release phase of a critical service feature with limited field exposure. While the feature has completed its entire development cycle and it is fully supported in production, due to strong dependencies on the deployment environment, thorough validation and qualification is recommended before activating it.

## What's New in this Release

VMware HCX 4.2.0 is a minor release that provides new features, UI enhancements, and fixed issues.

### Interoperability Enhancements

- **HCX Enterprise feature set** is now GA with these environments:
  - Azure VMware Solution
  - Google Cloud VMware Engine
  - Oracle Cloud VMware Solution

Consult with your cloud provider for feature availability and requirements.

- **HCX for VMware Cloud Director with NSX-T**– With this release HCX supports VMware Cloud Director 10.2 with NSX-T 3.1. This feature is supported at destination sites with VMware Cloud Director and a single vCenter Server running NSX-T. For more information, see [HCX for VMware Cloud Director with NSX-T](#).

**Note:** HCX integration with VMware Cloud Director has dependencies with both vCenter Server and VMware Cloud Director operations and currently has the following caveats:

- Cloud side VMs do not get an IP lease from the on-premises DHCP server over the network extension in a cloud environment with VMware Cloud Director and NSX-T. See [KB 85093](#). (PR/2784080)
- Import of HCX vMotion and RAV migrated virtual machines to VMware Cloud Director 10.2.x may not succeed if the virtual machine is using static IP addressing mode and the IP addresses do not match the destination org VDC network IP pool/subnet.(PR/2737097)
- After HCX Cold migration into a VMware Cloud Director 10.2.x environment, the VM will have all network interfaces disconnected after power on. Refer to [KB 85392](#) for more details.
- For information about supported versions, see [Preparing for HCX Installations](#) and [VMware Product Interoperability Matrix](#).

### Migration Enhancements

- **Real-time Estimation of vMotion and Replication Assisted vMotion Migration**– HCX analyzes migration metrics and provides an estimation of the time required to complete the relocation phase for every configured vMotion, and the time required to complete the transfer phase for every RAV migration. The estimate is shown in the progress bar displayed on the Migration Tracking and Migration Management pages for each virtual

machine migration while the transfer is in underway. For more information, see [Monitoring Migration Progress for Mobility Groups](#).

- **Predictive Estimation of Replication Assisted vMotion (RAV) Migrations**– For RAV migrations in Draft state, HCX uses machine learning to get an estimate of the time that may be required to complete the migration. The estimate is shown in the progress bar displayed on the Migration Management page. Predictive estimation is available for Early Adoption (EA) with both RAV and Bulk migration. For more information, see [Monitoring and Estimating Migration with Mobility Groups](#).
- **OSAM GA Support** – HCX OS Assisted Migrations now can be run in any HCX deployment supporting Enterprise level features. For more information, see [Migrating Virtual Machines with VMware HCX](#).
- **Migrate Custom Attributes for Bulk, RAV, and Cold Migrations**– The option **Migrate Custom Attributes** is added to the Extended Options selections for Bulk, RAV, and Cold migrations. Values associated with the attributes are included in the migration. See [Additional Migration Options](#).
- **UUID Retention**  
For Bulk and RAV migrations, disk UUIDs are retained after migration of the virtual machine. This removes the requirement to use only HCX vMotion to retain disk UUIDs.

## User Interface Enhancements

- **Migration Management** – The Migration Management page now displays 50 VM migrations per page load. Previously, pages displayed only 15 VM migrations.
- **HCX Release Versioning** – HCX releases now include a patch release identifier in the version number. Previously, HCX builds followed an *x.y.z-build* naming scheme. With this release, HCX releases are identified in the UI as *x.y.z.p*.

**Note:** HCX systems will continue to show the *x.y.z-build* terminology until both the systems (HCX Connector and HCX Cloud) are upgraded to HCX version 4.2.0.0 or higher. If only one side has been upgraded, then any data that references the remote side is shown with the older, *x.y.z-build* terminology.

## HCX User Guide Revision

- **Network Underlay Minimum Requirements** has been added to the "Preparing for HCX Installations" section of the *HCX User Guide*. The new information is related to bandwidth, MTU, latency and packet loss tolerance and other network characteristics. This new guidance must be observed by any users deploying HCX with network underlays that include VPN, SD-WAN or tunneling configurations. See [Network Underlay Minimum Requirements](#).

## Resolved Issues

### Resolved Interconnect Issues

- PR/2536111 – In some VMware Cloud Director deployments, loading of the Compute Profile, Network Profile, and Service Mesh Pages on HCX UI is unsuccessful, and HCX Interconnect operations do not complete.
- PR/2721246 – Creation of the HCX Service Mesh might not succeed during fleet network creation with NSX-T and CVDS on the cloud side with WAN-OPT deployed.
- PR/2779863 – In a multiple Service Mesh scenario, deletion of a Service Mesh with no ongoing migrations is unsuccessful if there are migrations ongoing for a different Service Mesh.
- PR/2791809 – In some SDDCs enabled with Workload Control Plane (WCP), creating an HCX Compute Profile is unsuccessful.
- PR/2798400 – Resyncing the Service Mesh fails while deploying the appliances with the error "OvfNetworkMappingNotSupported."
- PR/2804552 – Editing the Service Mesh to add Network Extension service with switches is unsuccessful and displays an error.

## **Resolved Network Extension Issues**

- PR/2786012 – When upgrading a Network Extension appliance, the In-service redeploy option is unsuccessful if the Network Extension appliance has 8 extended networks with NSX-T.

## **Resolved Management Issues**

- PR/2728177 – Alert messages do not distinguish between Interconnect and Network Extension tunnel status messages.
- PR/2672401 – Mongo DB size continually increases.
- PR/2726311 – Telco cloud automation product API's are shown in the HCX API explorer.
- PR/2726316 – Deprecated API's appear in the HCX API explorer.
- PR/2748144 – DNS suffix is not automatically retained on the migrated VM at the target side when a re-IP is done.
- PR/2795321 – Bulk or RAV migration for a VM may become stuck in the initial base sync state.
- PR/2805600 – RAV migration of a VM with 2TB+ VMDKs to a vSAN datastore is unsuccessful and displays the message "The specified delta disk format 'redoLogFormat' is not supported."
- PR/2807008 – HCX vMotion, RAV, or Cold migration of a VM with guest integrity enabled is unsuccessful.
- PR/2809378 – HCX vMotion does not retain values for migrated custom attributes.