

# vCloud Availability for vCloud Director 2.0 Upgrade Guide

vCloud Availability for vCloud Director 2.0



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# About the vCloud Availability for vCloud Director 2.0 Upgrade Guide

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The *vCloud Availability for vCloud Director 2.0 Upgrade Guide* contains information about upgrading vCloud Availability for vCloud Director to version 2.0 or 2.0.1.

To install a new instance of vCloud Availability for vCloud Director without preserving the existing configuration, see the *vCloud Availability for vCloud Director Installation and Configuration Guide*.

## Intended Audience

This information is intended for VMware Cloud Provider Program service providers and experienced system administrators who are familiar with virtual machine technology and data center operations including but not limited to the following areas:

- VMware vSphere<sup>®</sup>
- VMware vCloud Director<sup>®</sup>
- Virtual Infrastructure
- Secure Shell (SSH)
- Bash

## VMware Technical Publications Glossary

VMware Technical Publications provides a glossary of terms that might be unfamiliar to you. For definitions of terms as they are used in VMware technical documentation, go to

<http://www.vmware.com/support/pubs>.

# Updated Information

This *vCloud Availability for vCloud Director 2.0 Upgrade Guide* is updated with each release of the product or when necessary.

This table provides the update history of the *vCloud Availability for vCloud Director 2.0 Upgrade Guide*.

Revision	Description
22 FEB 2018	<ul style="list-style-type: none"><li>■ Introduced <i>vCloud Availability</i> as the new short name for the <i>vCloud Availability for vCloud Director</i> solution.</li><li>■ The name of the <i>vCloud Availability for vCloud Director Portal</i> changes to <i>vCloud Availability Portal</i>.</li><li>■ The name of the <i>vCloud Availability for vCloud Director Service Manager Portal</i> changes to <i>vCloud Availability Administration Portal</i>.</li><li>■ Updated the information in the following topics:<ul style="list-style-type: none"><li>■ <a href="#">Chapter 1 About the vCloud Availability for vCloud Director 2.0 Upgrade Guide</a></li><li>■ <a href="#">Chapter 2 Upgrading vCloud Availability</a></li><li>■ <a href="#">Upgrading vSphere Replication Components of vCloud Availability</a></li><li>■ <a href="#">Upgrade vSphere Replication Components of vCloud Availability</a></li></ul></li></ul>
19 OCT 2017	Initial release.

# Upgrading vCloud Availability

To upgrade to vCloud Availability 2.0 or 2.0.1, you upgrade the vSphere Replication components and redeploy the vCloud Availability Installer Appliance, the vCloud Availability Portal, and the vCloud Availability Administration Portal.

Upgrading to vCloud Availability does not require you to upgrade existing vCenter Server and vCloud Director instances. If you decide to upgrade your vCenter Server or vCloud Director instances, make sure that you do before upgrading the vCloud Availability solution. For more information about upgrading vCenter Server, see [vSphere Upgrade](#). For more information about upgrading vCloud Director, see [Upgrading vCloud Director](#) in the *vCloud Director Installation and Upgrade Guide*. For more information about vCloud Availability 2.0 interoperability, see the [Interoperability Pages for vCloud Availability for vCloud Director 2.0](#).

There should be no or minimal impact on Recovery Point Objectives (RPO) for existing replications. Existing replications might be impacted when vSphere Replication Server is down.

Configuring a new or performing a failover of existing replications is not possible when the vSphere Replication Cloud Service or the vSphere Replication Manager are down.

## Upgrading vSphere Replication Components

The downloadable ISO file is the only means of upgrading the vSphere Replication components. It is important to follow the correct sequence of upgrading the individual vSphere Replication components of the vCloud Availability solution.

For more information, see [Upgrading vSphere Replication Components of vCloud Availability](#).

## Upgrading the vCloud Availability Installer Appliance

Download the latest version of the vCloud Availability Installer Appliance as an OVA file. Deploy, and configure a new appliance. By redeploying the appliance, you lose all previously created registry records, passwords, and trusted certificates.

For more information about deploying vCloud Availability Installer Appliance, see *Create vCloud Availability Installer Appliance* in the *vCloud Availability for vCloud Director 2.0 Installation and Configuration Guide*.

For more information about creating registry records, password files, and adding trusted thumbprints, see *Creating a Registry File for an Automated Installation*, *Create Password Files on Your vCloud Availability Installer Appliance*, and *Add Trusted Thumbprints to the vCloud Availability Installer Appliance* in the *vCloud Availability for vCloud Director 2.0 Installation and Configuration Guide*.

For more information about reconnecting the vCloud Availability Installer Appliance to the remaining vCloud Availability components, see *Reconnecting to a vCloud Availability Component* in the *vCloud Availability for vCloud Director 2.0 Administration Guide*.

## Upgrading the vCloud Availability Portal Host

To upgrade the vCloud Availability Portal to version 2.0 or 2.0.1, you create and configure a new host.

For more information, see *Create vCloud Availability Portal Host* and *Configure vCloud Availability Portal Host* in the *vCloud Availability for vCloud Director 2.0 Installation and Configuration Guide*.

## Upgrading the vCloud Availability Administration Portal Host

To upgrade the vCloud Availability Administration Portal to version 2.0 or 2.0.1, you create and configure a new host.

For more information, see *Create vCloud Availability Administration Portal* and *Configure vCloud Availability Administration Portal* in the *vCloud Availability for vCloud Director 2.0 Installation and Configuration Guide*.

## Upgrading Third-Party Components

Upgrading to vCloud Availability 2.0 or 2.0.1 does not require you to upgrade existing Cassandra and RabbitMQ instances. If you decide to upgrade your Cassandra and RabbitMQ instances, follow the instructions provided by the respective vendor. For more information about upgrading Cassandra, see the [Apache Cassandra Documentation](#). For more information about upgrading RabbitMQ, see the [RabbitMQ Documentation](#) provided by Pivotal.

## Upgrading vSphere Replication Components of vCloud Availability

You upgrade all vSphere Replication components of vCloud Availability by using a pre-downloaded ISO image.

The downloadable ISO image is the only available method of upgrading the vCloud Availability vSphere Replication components to version 2.0 or 2.0.1.

You cannot downgrade to an earlier version of vSphere Replication.

You must upgrade the vSphere Replication components of the vCloud Availability solution in the following order.

- 1 Upgrade the vSphere Replication Cloud Service hosts.
- 2 Upgrade the vSphere Replication Manager instances.
- 3 Upgrade the vSphere Replication Server instances.

## Upgrade vSphere Replication Components of vCloud Availability

You upgrade all vSphere Replication components and by using a downloadable ISO image.

Repeat this procedure for all vSphere Replication Cloud Service, vSphere Replication Manager, and vSphere Replication Server instances in your environment.

### Prerequisites

If you are upgrading from version 1.x to version 2.0.1, download the VMWare–vCloud\_Availability\_4vCD–6.5.0–7817304–sles11–upgrade.iso file from the vCloud Availability download page.

If you are upgrading from version 2.0.0 to version 2.0.1, download the VMWare–vCloud\_Availability\_4vCD–6.5.0–7817304.iso file from the vCloud Availability download page.

If you are upgrading from version 1.x to version 2.0.0, download the VMWare–vCloud\_Availability\_4vCD–6.5.0–6917958–sles11–upgrade.iso file from the vCloud Availability download page.

Copy the corresponding ISO image file to a datastore that is accessible from the vCenter Server instance that you use with the vSphere Replication component you are upgrading.

### Procedure

- 1 In the vSphere Web Client, right-click the vSphere Replication virtual machine and select **Edit Settings**.
- 2 On the **Virtual Hardware** tab, select **CD/DVD Drive > Datastore ISO File**.
- 3 Browse to the ISO image in the datastore.
- 4 For **File Type**, select **ISO Image** and click **OK**.
- 5 Select **Connected** and **Connect At Power On** check boxes and follow the prompts to add the CD/DVD drive to the vSphere Replication virtual machine.
- 6 In a Web browser, log in to the virtual appliance management interface (VAMI).  
The URL for the VAMI is [https://vr\\_appliance\\_address:5480](https://vr_appliance_address:5480).
- 7 Click the **Update** tab.
- 8 Click **Settings**, select **Use CDROM Updates**, and click **Save Settings**.
- 9 Click **Status** and click **Check Updates**.

The appliance version 2.0.1 appears in the list of available updates.



- 10 Click **Install Updates** and click **OK**.
- 11 After the update completes, click the **System** tab and click **Reboot**.
- 12 After the appliance reboots, start the console of the vSphere Replication virtual machine to monitor the process.  
  
The vSphere Replication appliance reboots two more times for the upgrade procedure to complete.
- 13 To prevent caching issues, log out of the VAMI and close the VAMI Web browser window.
- 14 Register the vSphere Replication Manager with vCenter Single Sign-On.

After the vSphere Replication Manager reboots, log in to the VAMI and repeat the steps to register the vSphere Replication appliance with vCenter Single Sign-On. For more information, see [Register the vSphere Replication Appliance with vCenter Single Sign-On](#). This registers the vSphere Replication Manager in the Lookup Service and SSO, or updates an existing vSphere Replication registration. The Lookup Service registration contains version and build information.

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**Note** Perform this step only for the vSphere Replication Manager instances that you are upgrading. If you are upgrading vSphere Replication Cloud Service hosts or vSphere Replication Server instances, you can skip this step.

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- 15 Unmount the ISO image.
  - a In the **System** tab of the VAMI, shut down the VM.
  - b In the vSphere Web Client, right-click the vSphere Replication virtual machine and select **Edit Settings**.
  - c In the **Virtual Hardware** tab, select **CD/DVD Drive** and deselect **Connected** and **Connect At Power On**.
  - d Power on the VM.

## Update the vCenter Server IP Address in the vSphere Replication Manager

After you upgrade the vCenter Server and the vSphere Replication appliances, if the vCenter Server certificate or the IP address changed during the upgrade, you must perform a few additional steps.

To update the vCenter Server certificate, see vSphere Replication is Inaccessible After Changing vCenter Server Certificate of the *Using vSphere Replication* document.

If vCenter Server uses a static IP address, it preserves the IP address by default after upgrade. If the vCenter Server uses a DHCP address that changed during the upgrade, and the vSphere Replication Manager is configured to use the vCenter Server IP address and not FQDN, update the IP address in the vSphere Replication Manager.

### Procedure

- 1 Upgrade vCenter Server to the new appliance.

- 2 Upgrade vSphere Replication components.
- 3 In the vSphere Web Client, power off the vSphere Replication Manager and power it on to retrieve the OVF environment.
- 4 Use a supported browser to log in to the vSphere Replication Manager VAMI.  
The URL for the VAMI is `https://hms-IP-Address:5480`.
- 5 On the **Configuration** tab, enter the new IP address of the vCenter Server.
- 6 Click **Save and Restart**.