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.

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®
- VMware vCloud Director®
- 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.

Upgrading vCloud Availability for vCloud Director

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To upgrade to vCloud Availability for vCloud Director 2.0, you upgrade the vSphere Replication components and redeploy the vCloud Availability Installer Appliance, the vCloud Availability for vCloud Director Portal, and the vCloud Availability for vCloud Director Service Manager Portal.

Upgrading to vCloud Availability for vCloud Director 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 for vCloud Director 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 for vCloud Director 2.0 interoperability, see the Interoperability Pages for vCloud Availability for vCloud Director 2.0.

The seamless vCloud Availability for vCloud Director upgrade does not affect existing replications and user data.

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 for vCloud Director solution.

For more information, see Upgrading vSphere Replication Components of vCloud Availability for vCloud Director.

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 for vCloud Director components, see *Reconnecting to a vCloud Availability for vCloud Director Component* in the *vCloud Availability for vCloud Director 2.0 Administration Guide*.

Upgrading the vCloud Availability for vCloud Director Portal Host

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

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

Upgrading the vCloud Availability for vCloud Director Service Manager Portal Host

To upgrade the vCloud Availability for vCloud Director Service Manager Portal to version 2.0, you create and configure a new host.

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

Upgrading Third-Party Components

Upgrading to vCloud Availability for vCloud Director 2.0 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 for vCloud Director

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

The downloadable ISO image is the only available method of upgrading the vCloud Availability for vCloud Director 1.0.X vSphere Replication components to version 2.0.

You cannot downgrade to an earlier version of vSphere Replication.

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

1 Upgrade the vSphere Replication Cloud Service hosts.

2 Upgrade thevSphere Replication Manager instances.

3 Upgrade the vSphere Replication Server instances.

Upgrade vSphere Replication Components of vCloud Availability for vCloud Director

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

- Download the `iso` image from the vCloud Availability for vCloud Director download page. Copy the ISO image file to a datastore that is accessible from the vCenter Server instance that you use with thevSphere Replication component you are upgrading.
- Shut down and power off the vSphere Replication guest virtual machine.

Procedure

1. In the vSphere Web Client, right-click the vSphere Replication virtual machine and select **Edit Settings**.
2. If you are upgrading a vSphere Replication Server appliance, increase the RAM memory of the virtual machine from 512 MB to 716 MB.
3. On the **Virtual Hardware** tab, select **CD/DVD Drive > Datastore ISO File**.
4. Browse to the ISO image in the datastore.
5. For **File Type**, select **ISO Image** and click **OK**.
6. Select the check box to connect at power-on and follow the prompts to add the CD/DVD drive to the vSphere Replication virtual machine.
7. Power on the vSphere Replication virtual machine.
8. In a Web browser, log in to the virtual appliance management interface (VAMI).

   The URL for the VAMI is https://*vr_appliance_address*:5480.
9. Click the **Update** tab.
10. Click **Settings**, select **Use CDROM Updates**, and click **Save Settings**.
11. Click **Status** and click **Check Updates**.

    The appliance version 2.0 appears in the list of available updates.

12 Click **Install Updates** and click **OK**.

13 After the update completes, click the **System** tab and click **Reboot**.

14 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.

15 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.

16 Log out of the vSphere Web Client, clear the browser cache, and log in again to see the upgraded appliance.

What to do next

Note If you omit Step 15, the status of the vSphere Replication server changes to `Enabled (Configuration issue)`. You must log in to VAMI and register the vSphere Replication Manager with the Lookup Service and SSO. See Register the vSphere Replication Appliance with vCenter Single Sign-On.

If your infrastructure uses more than one vSphere Replication Server, you must upgrade all vSphere Replication Server instances to version 6.5.

Important If the vSphere Replication appliance that you upgraded uses the embedded database, you must apply additional configuration to enable the support of up to 2000 replications. See http://kb.vmware.com/kb/2102463. No additional configuration is required for vSphere Replication appliances that are configured with an external database.

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**.