# Upgrading VMware Cloud Director Availability

A Natural Partnership

For Cloud and Service Providers

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### Introduction

Upgrading your VMware Cloud Director Availability to its most recent version (4.3) enables you to utilize all its latest and greatest features and support integrating it with VMware Cloud Director 10.3.x.

Also, 3.5 reached its End of General Support date. (2021-11-14).

# Upgrade path

The only supported upgrade paths are as follows:

- $3.5.x \rightarrow 4.0.0.2 \rightarrow 4.2.1 \rightarrow 4.3$
- 4.2.1 → 4.3
- 4.1.1 → 4.3

### Interoperability

To guarantee your tenants will not experience any issues due to the VMware Cloud Director Availability upgrade, you need to make sure they are running a supported version of the VMware Cloud Director Availability on-premises appliance. You can see the supported versions in the table below:

VMware Cloud Director	Cloud Site	Cloud Site	Cloud Site	Cloud Site	Cloud Site
Availability On-Premises Appliance	3.5	4.0	4.1	4.2	4.3
3.5	Supported	Supported	Supported	Unsupported	Unsupported
4.0	Supported	Supported	Supported	Supported	Unsupported
4.1	Supported	Supported	Supported	Supported	Supported
4.2	Unsupported	Supported	Supported	Supported	Supported
4.3	Unsupported	Unsupported	Supported	Supported	Supported

In case you have other Cloud sites connected to the one that is being upgraded, you need to verify their VMware Cloud Director Availability version is supported too. You can check the table below:

Source Cloud Site	Destination Cloud Site				
VMware Cloud Director Availability	3.5	4.0	4.1	4.2	4.3
3.5	Supported	Supported	Supported	Unsupported	Unsupported
4.0	Supported	Supported	Supported	Supported	Unsupported
4.1	Supported	Supported	Supported	Supported	Supported
4.2	Unsupported	Supported	Supported	Supported	Supported
4.3	Unsupported	Unsupported	Supported	Supported	Supported

For ensuring the rest of your infrastructure will continue to operate without any disruptions, you can check the <u>VMware</u> <u>Interoperability Matrix</u>.



# Upgrade options

Each Cloud Provider environment has some specifics such as internet connectivity, webserver availability, access to the VMware Cloud Director Availability appliance VMs through SSH or just through the UI. Because of all these and other factors, there are two different ways to perform an upgrade:

- Using a repository the VMware official repository or a custom one created locally in the Provider environment.
- Using an ISO file mounted locally to the appliances VM.

Each upgrade method can be achieved from the VMware Cloud Director Availability UI or through command-line.

### How to obtain the VMware Cloud Director Availability ISO files

To start the upgrade procedure, you need to download the ISO files from <u>https://my.vmware.com/</u>.

If you are currently running VMware Cloud Director Availability 3.5.x, you need first to download and upgrade to 4.0.0.2 because with 4.0 there is a major change in the upgrade mechanism.

To obtain the proper ISO file, you need to:

1. Select VMware Cloud Director Availability from **My Products**, click on **View Download Components** and then change the version from the latest to 4.0.

Downloa	d VMware Cloud Director Availability		C
Select Version:	VMware Cloud Director Availability is a disaster recovery solution t and vApp level.	that provides replication and failover for vSphere workloads at	Product Resources View My Download History Documentation VMware Cloud Provider Program VMware Cloud Solutions Product Information
4.1 4.0 3.5 3.0	Read More		
Product VMware Cloud D	rector Availability 4.3 Provider Appliance	Release Date 2021-11-23	GO TO DOWNLOADS

Figure 1 - Select VMware Cloud Director Availability 4.0 from the version menu

2. Click on GO TO DOWNLOADS.

Download VMware Cloud Director Availability		0
Select Version:           VMware Cloud Director Availability is a disaster recovery solution the           4.0 ×         and vApp level.	at provides replication and failover for vSphere workloads at the VM	Product Resources View My Download History Documentation VMware Cloud Provider Program VMware Cloud Solutions Product Information
Read More		
Product Downloads Drivers & Tools Open Source Custom ISOs OEM Addons		
Product	Release Date	
VMware Cloud Director Availability 4.0.1.2 Provider Appliance	2020-12-04 00 TO	DOWNLOADS

Figure 2 - Go to 4.0 downloads

3. Change the version once again from the latest 4.0.1.2 to 4.0.0.2.

Home / VMware Cloud Director Availability 4.0.1.2 Provider Appliance

### Download Product

Select Version	4.0.1.2 ~
Documentation	4.0.1.2
Release Date	4.0.0.2
Туре	Product Binaries

Figure 3 - Change from the latest 4.0.1.2 to 4.0.0.2



4. Download the upgrade disk.

Home / VMware Cloud Director Availability 4.0 Provider Appliance						
Download	Product					
Select Version	4.0.0.2 ~			Product Resources View My Download History		
Documentation	Release Notes			Documentation VMware Cloud Provider Program		
Release Date	2020-06-23			VMware Cloud Solutions Product Information		
Туре	Product Binaries					
Product Downloads	Drivers & Tools Open Source Custom ISOs	OEM Addons		0		
File		Information				
VMware Cloud Avail File size: 409.57 MB File type: ova Read More	ability 4.0.0.2 Provider Appliance			DOWNLOAD NOW		
VMware Cloud Direct File size: 699.06 MB File type: iso	tor Availability 4.0.0.2 Upgrade Disk Image			DOWNLOAD NOW		

Figure 4 - Download VMware Cloud Director Availability 4.0.0.2 Upgrade Disk Image

If your version already is 4.0.0.2 or 4.0.1.2, you can skip this step.

Download 4.2.1:

Download	Download Product						
Select Version	4.2.1 ~		Product Resources View My Download History				
Documentation	Release Notes		Documentation VMware Cloud Provider Program				
Release Date	2021-08-12		VMware Cloud Solutions Product Information				
Туре	Product Binaries						
Product Downloads	Drivers & Tools Open Source	Custom ISOs OEM Addons	0				
File		Information					
File VMware Cloud Avai File size: 356.39 MB File type: ova Read More	iability 4.2.1 Provider Appliance	Information	DOWNLOAD NOW				
File VMware Cloud Avai File size: 356.39 MB File type: ova Read More VMware Cloud Diree File size: 260.99 MB File type: iso	lability 4.2.1 Provider Appliance	Information	DOWNLOAD NOW				

Figure 5 - Download VMware Cloud Director Availability 4.2.1 Upgrade Disk

### Download 4.3:

Download	Product				
Version	4.3	Product Resources			
Documentation	Release Notes	View My Download History Documentation			
Release Date	2021-11-23	VMware Cloud Provider Program			
Туре	Product Binaries	Product Information			
Product Downloads	Drivers & Tools Open Source Custom ISOs OEM Addons	0			
File	Information				
VMware Cloud Avail File size: 346.51 MB File type: ova Read More	billty 4.3 Provider Appliance	DOWNLOAD NOW			
VMware Cloud Direct File size: 245.46 MB File type: Iso	VMware Cloud Director Availability 4.3 Upgrade Disk Image Pile Size: 254.64 MB Pile type: Ioo DOWNLOAD NOW Pile type: Ioo Pile				
Read More					

Figure 6 - Download VMware Cloud Director Availability 4.3 Upgrade Disk



### VMware repositories

There are official VMware repositories that can be used during the upgrade procedure. They offer the latest VMware Cloud Director Availability releases.

- 4.2.1 https://packages.vmware.com/vcav/4.2
- 4.3 https://packages.vmware.com/vcav/4.3

### Setting up a custom repository

Having an update repository is very convenient for keeping your tenants on the same VMware Cloud Director Availability version or securing them to have the proper binaries for following the upgrade path when updating them to the latest.

To set up a custom repository, you can use a webserver of your preference.

### 4.0.0.2

- 1. Mount the VMware Cloud Director Availability 4.0.0.2 ISO file on the webserver host.
- 2. From the mounted drive, copy the update folder and make sure the copied directory contains both manifest and package-pool subdirectories.
- 3. Ensure that the contents of <u>https://Web-Server-Address/update/</u> are accessible as this will be the repository URL that you or your tenants use for the upgrade.

### 4.2.1:

- 1. Mount the VMware Cloud Director Availability 4.2.1 ISO file on the webserver host.
- 2. From the mounted drive, copy the update folder and make sure the copied directory contains the dnf subdirectory.
- 3. Ensure that the contents of <u>https://Web-Server-Address/update/dnf/</u> are accessible as this will be the repository URL that you or your tenants use for the upgrade.

### 4.3:

- 1. Mount the VMware Cloud Director Availability 4.3 ISO file on the webserver host.
- 2. From the mounted drive, copy the update folder and make sure the copied directory contains the dnf subdirectory.
- 3. Ensure that the contents of <u>https://Web-Server-Address/update/dnf/</u> are accessible as this will be the repository URL that you or your tenants use for the upgrade.

**Note:** VMware Cloud Director Availability repository settings support providing webserver credentials (username & password) when submitting the repository URL only in version 3.5.x, but not in 4.0.0.2 and above.

Also, currently it is NOT supported to enter a proxy address.

### Appliance upgrade order

To perform a successful upgrade, you need to follow this order strictly:

- 1. Cloud Replication Management Appliance
- 2. All Cloud Replicator(s) Appliance
- 3. Cloud Tunnel Appliance

### Snapshots

Verify that before starting the upgrade, current snapshots of all the appliances exist in the site. Take snapshots only with all the VMware Cloud Director Availability services stopped or with the appliances powered off.

If the upgrade of any of the appliances fails, revert to the latest snapshot.

After a successful upgrade, delete all snapshots.



# Upgrade from a repository

### Prerequisites

- Connectivity to the repository URL from all the VMware Cloud Director Availability appliances Cloud Replication Management, Cloud Replicator(s), and Cloud Tunnel.
- Valid license key for VMware Cloud Director Availability 4.x as it differs from the 3.x one.
- At least 60% or more free space in / on the Cloud Replication Management host.
- (For VMware repository only) Internet access to connect to the VMware repository.

### Steps for an upgrade from a repository through the UI

### 3.5.x → 4.0.0.2

- 1. Log in to the management interface at <u>https://Appliance-IP-Address/ui/admin</u>.
- 2. Go to the **Configuration** menu.
- 3. At the bottom, in the Version submenu, you will see the current product version and the repository.

V	ersion		
	Product version	3.5.2.16421099-e6c2fa0	Check for update
	Update repository	https://vapp-updates.vmware.com/vai-catalog/valm/vmw/00ce30da-df8b-48c7-bd2e-8775f3f7c968/3.5.2.4535.la	test 🕄 Edit

Figure 7 - VMware Cloud Director Availability version

- 4. If you will use the default VMware repository, please go directly to step #7. In case you will use a custom repository, click **Edit** on the **Update repository** setting and select the **Use Specified Repository** option.
- 5. Enter the repository URL and username/password (only if required, otherwise leave blank).

Use Default Repository	
Repository URL	https://vapp-updates.vmware.com/vai-catalog/valm/vmw/00ce30da-df8b-48c7-bd2e-8
Use CDROM Updates	
Use Specified Repository	
Repository URL *	http://172.26.46.251/40/update/
Username	
	a a a a a a a a a a a a a a a a a a a



- 6. Click Apply.
- 7. To start the upgrade process, click on **Check for update**.



8. After a few seconds, you will see that an update is available.

Version		
Product version	3.5.2.16421099-e6c2fa0 <mark>( Updates available )</mark>	Update
Update repository	http://172.26.46.251/40/update/ 🕒	Edit



- 9. Click on Update.
- 10. The window will indicate that version 4.0.0.4532 will be installed. Click on Apply.
- 11. Scroll to the bottom and accept the End User License Agreement.
- 12. Click on Apply.
- 13. The upgrade will start, and VMware Cloud Director Availability will be unaccessible while it finishes. Do NOT close the browser window.
- 14. Once it is completed, the page will be automatically reloaded. Clear the browser cache, reload the page, and you will be able to log in again.
- 15. Navigate again to the Configuration menu to verify that the version has changed.

Version		
Product version	4.0.0.16407624-26baaca	Check for updates

Figure 10 - VMware Cloud Director Availability version

### 4.0.0.2 → 4.2.1

- 1. Log in to the management interface at <u>https://Appliance-IP-Address/ui/admin</u>.
- 2. To proceed with the upgrade to 4.2.1, navigate to the Configuration and click on Check for updates.
- 3. Select **Use Specified Repository**, enter the repository URL (VMware repository URL or custom repository URL) and click **Next**.



Figure 11 - Change repository



4. Select version 4.2.1.XXXX and click Next.

Update	Available updates
1 Repository	Choose the version you wish to upgrade to, then click Next. • VMware Cloud Director Availability 4.2.1.2610807
2 Available updates	
3 EULA Review	
4 Ready for update	

Figure 12 - Select version for upgrade

- 5. Accept the End User License Agreement by clicking Next.
- 6. Click **Finish** to finalize the process.
- 7. The upgrade will start, and VMware Cloud Director Availability will be unaccessible while it finishes. Do NOT close the browser window.
- 8. Once it is completed, the page will be automatically reloaded. Clear the browser cache, reload the page, and you will be able to log in again.
- 9. Navigate to the Settings menu to verify that the version has changed.



Figure 13 - VMware Cloud Director Availability version after a successful upgrade to 4.2.1

Note: These steps are also valid for VMware Cloud Director Availability 4.0.1.2.

#### 4.2.1 → 4.3

- 1. Log in to the management interface at <u>https://Appliance-IP-Address/ui/admin</u>.
- 2. To proceed with the upgrade to 4.3, navigate to the Configuration and click on Check for updates.
- 3. Select Use Specified Repository, enter the repository URL (VMware repository URL or custom repository URL) and click Next.

Update	Repository	
1 Repository	Enter connection details for t	the update repository.
2 Available updates	Use CDROM Updates Use Specified Repository	or y
3 EULA Review	Repository URL *	https://172.26.46.251/43/update/dnf
4 Ready for update		

Figure 14 - Change repository



4. Select version 4.3.0.XXXX and click Next.

Update	Available updates
1 Repository	Choose the version you wish to upgrade to, then click Next. <ul> <li>VMware Cloud Director Availability 4.3.0.3095245</li> </ul>
2 Available updates	
3 EULA Review	
4 Ready for update	



- 5. Accept the End User License Agreement by clicking Next.
- 6. Click Finish to finalize the process.
- 7. The upgrade will start, and VMware Cloud Director Availability will be unaccessible while it finishes. Do NOT close the browser window.
- 8. Once it is completed, the page will be automatically reloaded. Clear the browser cache, reload the page, and you will be able to log in again.
- 9. Navigate to the **Settings** menu to verify that the version has changed.

Version		
Product version	4.3.0.3046685-e72a5238d9	Check for updates

Figure 16 - VMware Cloud Director Availability version after a successful upgrade to 4.3

### 4.1.x → 4.3

- 1. Log in to the management interface at <u>https://Appliance-IP-Address/ui/admin</u>.
- 2. To proceed with the upgrade to 4.3, navigate to the Configuration and click on Check for updates.
- 3. Select Use Specified Repository, enter the repository URL (VMware repository URL or custom repository URL) and click Next.

Update	Repository	
1 Repository	Enter connection details for th	e update repository.
2 Available updates	<ul> <li>Use CDROM Updates</li> <li>Use Specified Repository</li> </ul>	, y
3 EULA Review	Repository URL *	https://172.26.46.251/43/update/dnf
4 Ready for update		

Figure 17 - Change repository



4. Select version 4.3.0.XXXX and click Next.

Update	Available updates
1 Repository	Choose the version you wish to upgrade to, then click Next. <ul> <li>VMware Cloud Director Availability 4.3.0.3095245</li> </ul>
2 Available updates	
3 EULA Review	
4 Ready for update	



- 5. Accept the End User License Agreement by clicking Next.
- 6. Click Finish to finalize the process.
- 7. The upgrade will start, and VMware Cloud Director Availability will be unaccessible while it finishes. Do NOT close the browser window.
- 8. Once it is completed, the page will be automatically reloaded. Clear the browser cache, reload the page, and you will be able to log in again.
- 9. Navigate to the **Settings** menu to verify that the version has changed.

Version		
Product version	4.3.0.3046685-e72a5238d9	Check for updates

Figure 19 - VMware Cloud Director Availability version after a successful upgrade to 4.3

Steps for an upgrade from a repository through the command-line

3.5.x → 4.0.0.2

- 1. Connect to the appliance host through SSH and log in as root.
- 2. If you will use the default VMware repository, go directly to step #4. In case you will use a custom repository, specify the desired repository URL and webserver username/password (only if required) with the following command:

sudo /opt/vmware/bin/vamicli update --repo "http://172.26.46.251/40/update/" --user "upgrade" --password "upgrade"

3. The output should look like this:

sot@vcda35-mgmt-70 [ ~ ]# sudo /opt/vmware/bin/vamicli update --repo "http://172.26.46.251/40/update/" --user "upgrade" --password "upgrade at local repository address...

Figure 20 - Change repository command-line output

4. Check for updates with the following command:

sudo /opt/vmware/bin/vamicli update --check



5. The output should look like this:



Figure 21 - Check for updates from command-line

6. Install the update with the following command:

sudo /opt/vmware/bin/vamicli update --install latest --accepteula

- 7. After the upgrade is done, you will be disconnected from your SSH session due to a reboot.
- 8. Once the VM is accessible again, you can open the management interface and log in.
- 9. Verify that the version has changed under Version in the Configuration menu.

Version		
Product version	4.0.0.16407624-26baaca	Check for updates

Figure 22 - VMware Cloud Director Availability version

4.0.0.2 → 4.2.1

The only option for upgrading VMware Cloud Director Availability 4.0.0.2 to 4.2.1 through the command-line is using an ISO file. There is no option for a different repository.

You can perform the upgrade through the UI (<u>Upgrade steps for an upgrade through the UI</u>), or you can download the VMware Cloud Director Availability 4.2.1 upgrade disk ISO file and proceed with an offline upgrade through the command-line(<u>Upgrade steps for an upgrade through the command line</u>).

Note: These steps are also valid for VMware Cloud Director Availability 4.0.1.2.

#### 4.2.1 → 4.3

The only option for upgrading VMware Cloud Director Availability 4.2.1 to 4.3 through the command-line is using an ISO file. There is no option for a different repository.

You can perform the upgrade through the UI (<u>Upgrade steps for an upgrade through the UI</u>), or you can download the VMware Cloud Director Availability 4.3 upgrade disk ISO file and proceed with an offline upgrade through the commandline(<u>Upgrade steps for an upgrade through the command line</u>).

### 4.1.x → 4.3

The only option for upgrading VMware Cloud Director Availability 4.1.x to 4.3 through the command-line is using an ISO file. There is no option for a different repository.

You can perform the upgrade through the UI (<u>Upgrade steps for an upgrade through the UI</u>), or you can download the VMware Cloud Director Availability 4.3 upgrade disk ISO file and proceed with an offline upgrade through the command-line(<u>Upgrade steps for an upgrade through the command line</u>).

# 

# Upgrade from an ISO file

### Prerequisites

- VMware Cloud Director Availability 4.0.0.2, 4.2.1 and 4.3 update disk ISO files. See the <u>How to obtain ISO files</u> for more information.
- The downloaded ISO files need to be uploaded to a Datastore accessible by the VMware Cloud Director Availability host or directly uploaded to the VMware Cloud Director Availability host so they can be mounted to their CD/DVD drive.
- Valid license key for VMware Cloud Director Availability 4.x as it differs from the 3.x one.
- At least 60% or more free space in / on the Cloud Replication Management host.

### Steps for an upgrade from an ISO file through the UI

### 3.5.x → 4.0.0.2

- 1. Log in to the management interface at <u>https://Appliance-IP-Address/ui/admin</u>.
- 2. Go to the **Configuration** menu.
- 3. At the bottom, in the Version submenu, you will see the current product version and the repository.

V	ersion		
	Product version	3.5.2.16421099-e6c2fa0	Check for update
	Update repository	https://vapp-updates.vmware.com/vai-catalog/valm/vmw/00ce30da-df8b-48c7-bd2e-8775f3f7c968/3.5.2.4535.late	est 🗳 🛛 Edit

Figure 23 - VMware Cloud Director Availability version

4. Change the repository to CDROM by clicking Edit.

er connection details for Use Default Repository	the update repository.	
Repository URL	https://vapp-updates.vmware.com/vai-catalog/valm/vmw/00ce30da-df8b-48	8c7-bd2e-8
Use CDROM Updates		
Use Specified Repository	,	
Repository URL *	cdrom://	
Username		
Password		0

Figure 24 - Change the repository to CDROM

- 5. To start the upgrade process, click on Check for update.
- 6. After a few seconds, you will see that an update is available.

Version		
Product version	3.5.2.16421099-e6c2fa0 Updates available )	Update
Update repository	cdrom:// 🕄	Edit

Figure 25 - Check for updates



- 7. Click on Update.
- 8. The window will indicate that version 4.0.0.4532 will be installed. Click on Apply.
- 9. Scroll to the bottom and accept the End User License Agreement.
- 10. Click on Apply.
- 11. The upgrade will start, and VMware Cloud Director Availability will be unaccessible while it finishes. Do NOT close the browser window.
- 12. Once it is completed, the page will be automatically reloaded. Clear the browser cache, reload the page, and you will be able to log in again.
- 13. Navigate again to the Configuration menu to verify that the version has changed.

Version		
Product version	4.0.0.16407624-26baaca	Check for updates

Figure 26 - VMware Cloud Director Availability version

### 4.0.0.2 → 4.2.1

- 1. Log in to the management interface at <u>https://Appliance-IP-Address/ui/admin</u>.
- 2. To proceed with the upgrade to 4.2.1, navigate to the **Configuration** menu click on **Check for updates**.
- 3. Select Use CDROM Updates and click Next.

Update	Repository
1 Repository	Enter connection details for the update repository.
2 Available updates	Use CDROM Updates     Use Specified Repository
3 EULA Review	
4 Ready for update	

Figure 27 - Change the repository

4. Select version 4.2.1.XXXX and click Next.

Update	Available updates
1 Repository	Choose the version you wish to upgrade to, then click Next. <ul> <li>VMware Cloud Director Availability 4.2.1.2610807</li> </ul>
2 Available updates	
3 EULA Review	
4 Ready for update	

Figure 28 - Select a version to upgrade

5. Accept the End User License Agreement by clicking Next.

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- 6. Click **Finish** to finalize the process.
- 7. The upgrade will start, and VMware Cloud Director Availability will be unaccessible while it finishes. Do NOT close the browser window.
- 8. Once it is completed, the page will be automatically reloaded. Clear the browser cache, reload the page, and you will be able to log in again.
- 9. Navigate to the Settings menu to verify that the version has changed.

Version		
Product version	4.2.1.2610807-98aa4437ed	Check for updates

Figure 29 - VMware Cloud Director Availability version after a successful upgrade to 4.2.1

Note: These steps are also valid for VMware Cloud Director Availability 4.0.1.2.

**Note:** When upgrading from 4.0.0.2, in some cases, the upgrade finishes properly, but the UI still shows 4.0.0.2 instead of 4.2.1, or there is a failed task in System tasks. Also, the following error message is present at the end of the upgrade log file (/var/log/upgrade.log):



The above message is harmless. To complete the process, please **reboot** the appliances manually after finishing the Upgrade job.

### 4.2.1 → 4.3

- 1. Log in to the management interface at <u>https://Appliance-IP-Address/ui/admin</u>.
- 2. To proceed with the upgrade to 4.3, navigate to the Configuration menu click on Check for updates.
- 3. Select Use CDROM Updates and click Next.

Update	Repository
1 Repository	Enter connection details for the update repository.
2 Available updates	Use CDROM Updates     Use Specified Repository
3 EULA Review	
4 Ready for update	

Figure 30 - Change the repository

4. Select version 4.3.0.XXXX and click Next.

Update	Available updates
1 Repository	Choose the version you wish to upgrade to, then click Next. <ul> <li>VMware Cloud Director Availability 4.3.0.3095245</li> </ul>
2 Available updates	
3 EULA Review	
4 Ready for update	

Figure 31 - Select a version to upgrade

- 5. Accept the End User License Agreement by clicking Next.
- 6. Check the I have created a backup archive of the appliance button and click Finish to finalize the process.
- 7. The upgrade will start, and VMware Cloud Director Availability will be unaccessible while it finishes. Do NOT close the browser window.
- 8. Once it is completed, the page will be automatically reloaded. Clear the browser cache, reload the page, and you will be able to log in again.
- 9. Navigate to the **Settings** menu to verify that the version has changed.



Figure 32 - VMware Cloud Director Availability version after a successful upgrade to 4.3

### 4.1.x → 4.3

- 1. Log in to the management interface at <u>https://Appliance-IP-Address/ui/admin</u>.
- 2. To proceed with the upgrade to 4.3, navigate to the Configuration menu click on Check for updates.
- 3. Select Use CDROM Updates and click Next.

Update	Repository
1 Repository	Enter connection details for the update repository.
2 Available updates	Use CDROM Updates     Use Specified Repository
3 EULA Review	
4 Ready for update	

Figure 33 - Change the repository

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4. Select version 4.3.0.XXXX and click Next.

Update	Available updates
1 Repository	Choose the version you wish to upgrade to, then click Next. <ul> <li>VMware Cloud Director Availability 4.3.0.3095245</li> </ul>
2 Available updates	
3 EULA Review	
4 Ready for update	



- 5. Accept the End User License Agreement by clicking Next.
- 6. Click Finish to finalize the process.
- 7. The upgrade will start, and VMware Cloud Director Availability will be unaccessible while it finishes. Do NOT close the browser window.
- 8. Once it is completed, the page will be automatically reloaded. Clear the browser cache, reload the page, and you will be able to log in again.
- 9. Navigate to the **Settings** menu to verify that the version has changed.



Figure 35 - VMware Cloud Director Availability version after a successful upgrade to 4.3

Steps for an upgrade from an ISO file through the command-line

### 3.5.x → 4.0.0.2

- 1. Mount the VMware Cloud Director Availability 4.0.0.2 ISO file to the appliance host CD/DVD drive through the vSphere Client and make sure the drive is connected.
- 2. Connect to the appliance host through SSH and log in as root.
- 3. Change the repository to CDROM with the following command:

sudo /opt/vmware/bin/vamicli update --repo cdrom://

4. The output should look like this:



Figure 36 - Change the repository through the command-line

5. Check for updates with the following command:

/usr/bin/sudo /opt/vmware/bin/vamicli update --check



6. The output should look like this:



Figure 37 - Check for updates through the comand-line

7. Install the update with the following command:

sudo /opt/vmware/bin/vamicli update --install latest --accepteula

- 8. After the upgrade is done, you will be disconnected from your SSH session due to a reboot.
- 9. Once the VM is accessible again, you can open the management interface and log in.
- 10. Verify that the version has changed under Version in the Configuration menu.

Version		
Product version	4.0.0.16407624-26baaca	Check for updates

Figure 38 - VMware Cloud Director Availability version after a successful upgrade to 4.0

### 4.0.0.2 → 4.2.1

- 1. Mount the VMware Cloud Director Availability 4.2.1 ISO file to the appliance host CD/DVD drive through the vSphere Client and make sure the drive is connected.
- 2. Connect to the appliance host through SSH and log in as root.
- 3. Mount the ISO file to the guest OS with the following command:

mount /mnt/cdrom

4. Review the End User License Agreement with the following command:

python3 /mnt/cdrom/update/iso-upgrade.py eula | less

- 5. Click **q** to accept it.
- 6. Install the update with the following command:

python3 /mnt/cdrom/update/iso-upgrade.py

7. When the installation is done, reboot the system with the following command:

### reboot

- 8. Once the VM is accessible again, you can open the management interface and log in.
- 9. Navigate to the Settings menu to verify that the version has changed.

Product version 4.2.1.2610807-98aa4437ed Check for updates

Figure 39 - VMware Cloud Director Availability version after a successful upgrade to 4.2

Note: If you encounter any problems with the upgrade, please check /var/log/upgrade.log.

Note: These steps are also valid for VMware Cloud Director Availability 4.0.1.2.



### 4.2.1 → 4.3

- 1. Mount the VMware Cloud Director Availability 4.3 ISO file to the appliance host CD/DVD drive through the vSphere Client and make sure the drive is connected.
- 2. Connect to the appliance host through SSH and log in as root.
- 3. Mount the ISO file to the guest OS with the following command:

### mount /mnt/cdrom

4. Review the End User License Agreement with the following command:

python3 /mnt/cdrom/update/iso-upgrade.py eula | less

- 5. Click **q** to accept it.
- 6. Install the update with the following command:
  - python3 /mnt/cdrom/update/iso-upgrade.py
- 7. When the installation is done, reboot the system with the following command:

### reboot

- 8. Once the VM is accessible again, you can open the management interface and log in.
- 9. Navigate to the **Settings** menu to verify that the version has changed.

)	/ersion		
	Product version	4.3.0.3046685-e72a5238d9	Check for updates

Figure 40 - VMware Cloud Director Availability version after a successful upgrade to 4.3

Note: If you encounter any problems with the upgrade, please check /var/log/upgrade.log.

### 4.1.x → 4.3

- 1. Mount the VMware Cloud Director Availability 4.3 ISO file to the appliance host CD/DVD drive through the vSphere Client and make sure the drive is connected.
- 2. Connect to the appliance host through SSH and log in as root.
- 3. Mount the ISO file to the guest OS with the following command:

### mount /mnt/cdrom

4. Review the End User License Agreement with the following command:

python3 /mnt/cdrom/update/iso-upgrade.py eula | less

- 5. Click **q** to accept it.
- 6. Install the update with the following command:

### python3 /mnt/cdrom/update/iso-upgrade.py

7. When the installation is done, reboot the system with the following command:

### reboot

- 8. Once the VM is accessible again, you can open the management interface and log in.
- 9. Navigate to the Settings menu to verify that the version has changed.

Product version	4.3.0.3046685-e72a5238d9	Check for update

Figure 41 - VMware Cloud Director Availability version after a successful upgrade to 4.3

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Note: If you encounter any problems with the upgrade, please check /var/log/upgrade.log.

### Post-upgrade procedures

- 1. Load a new license:
  - a. As the license for VMware Cloud Director Availability 3.x is different from the license for 4.x, after the upgrade you will see an error in the **Licensing** section under **Settings**.

Licensing		
License key	🌒 (hidden) 👁 🕒 (Permanent)	Edit

Figure 42 - License compatibility issue after an upgrade

- b. Load the 4.x license by clicking **Edit** and entering the correct 4.x license.
- 2. Reinstall the latest version of the VMware Cloud Director Availability plugin for VMware Cloud Director:
  - a. Log in to the management interface at https://Appliance-IP-Address/ui/admin as root.
  - b. In the left pane click Settings.
  - c. Find VMware Cloud Director address under Service endpoints and click Edit.

Service endpoints

Service Endpoint address	https://172.26.46.72:8048 🕒	Edit
Tunnel Service address	https://172.26.46.72:8047 🕄	Edit
Lookup Service Address	https://172.26.46.100:443/lookupservice/sdk 🕒	Remove   Edit
VMware Cloud Director address	https://172.26.46.75:443/api	Remove plugin   Edit

Figure 43 - Reinstall VMware Cloud Director Availability plugin

d. Enter the administrator username & password and click Apply.

VMware Cloud Director Detai	ls	×
VMware Cloud Director Endpoint address *	https://172.26.46.75:443/api	
VMware Cloud Director Username 🜖 *	administrator@system	
VMware Cloud Director Password *		•
	CANCEL	APPLY

Figure 44 - Enter VMware Cloud Director connection details

- e. Accept the VMware Cloud Director certificate.
- 3. Perform a backup of all the VMware Cloud Director Availability appliances. You can find more information about the backups at:

https://blogs.vmware.com/cloudprovider/2020/12/vmware-cloud-director-availability-4-1-backup-and-restoreappliances.html



# Changelog

Date	Release	Changes
Mar 21	1.0	Initial release that covers upgrade path from VMware Cloud Director Availability 3.5 to 4.1
Jul 21	1.1	Added upgrade procedures for upgrading to VMware Cloud Director Availability 4.2
Nov 21	1.2	Removed VMware Cloud Director Availability 3.0 from the Interoperability Matrix and the upgrade steps for 4.0.x -> 4.1 upgrade.



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