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 (4.2) enables you to utilize all its latest and greatest features and support integrating it with VMware Cloud Director 10.2.x.
Also, the End of General Support date for 3.5 is approaching (2021-11-14).

Upgrade path
The only supported upgrade paths are as follows: \(3.5.x \rightarrow 4.0.0.2 \rightarrow 4.1.x \rightarrow 4.2.x\) or \(3.5.x \rightarrow 4.0.0.2 \rightarrow 4.2.x\).

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:

<table>
<thead>
<tr>
<th>VMware Cloud Director Availability On-Premises Appliance</th>
<th>Cloud Site 3.0</th>
<th>Cloud Site 3.5</th>
<th>Cloud Site 4.0</th>
<th>Cloud Site 4.1</th>
<th>Cloud Site 4.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Unsupported</td>
<td>Unsupported</td>
</tr>
<tr>
<td>3.5</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Unsupported</td>
</tr>
<tr>
<td>4.0</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>4.1</td>
<td>Unsupported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>4.2</td>
<td>Unsupported</td>
<td>Unsupported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Source Cloud Site</th>
<th>Destination Cloud Site</th>
<th>Destination Cloud Site</th>
<th>Destination Cloud Site</th>
<th>Destination Cloud Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMware Cloud Director Availability 3.0</td>
<td>3.5</td>
<td>4.0</td>
<td>4.1</td>
<td>4.2</td>
</tr>
<tr>
<td>3.0</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Unsupported</td>
</tr>
<tr>
<td>3.5</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>4.0</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>4.1</td>
<td>Unsupported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>4.2</td>
<td>Unsupported</td>
<td>Unsupported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
</tbody>
</table>

For ensuring the rest of your infrastructure will continue to operate without any disruptions, you can check the VMware Interoperability Matrix.
Upgrading VMware Cloud Director Availability

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 https://my.vmware.com/.

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.

![Figure 1 - Select VMware Cloud Director Availability 4.0 from the version menu](image)

2. Click on GO TO DOWNLOADS.

![Figure 2 - Go to 4.0 downloads](image)

3. Change the version once again from the latest 4.0.x.x to 4.0.0.2.

![Figure 3 - Change from the latest 4.0.x.x to 4.0.0.2](image)
4. Download the upgrade disk.

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

If your version already is 4.0.x, you can skip this step. Then download 4.1.x:

Figure 5 - Download VMware Cloud Director Availability 4.1.x Upgrade Disk

Download 4.2.x:

Figure 6 - Download VMware Cloud Director Availability 4.2.x Upgrade Disk
Upgrading VMware Cloud Director Availability

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

- 4.1.x - https://packages.vmware.com/vcav/4.1
- 4.2.x - https://packages.vmware.com/vcav/4.2

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-tool subdirectories.
3. Ensure that the contents of https://Web-Server-Address/update/ are accessible as this will be the repository URL that you or your tenants use for the upgrade.

4.1.x
1. Mount the VMware Cloud Director Availability 4.1.x 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 https://Web-Server-Address/update/dnf/ are accessible as this will be the repository URL that you or your tenants use for the upgrade.

4.2.x:
1. Mount the VMware Cloud Director Availability 4.2.x 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 https://Web-Server-Address/update/dnf/ 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 https://Appliance-IP-Address/ui/admin.
2. Go to the Configuration menu.
3. At the bottom, in the Version submenu, you will see the current product version and the repository.

   ![Figure 7 - VMware Cloud Director Availability version](image)

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).

   ![Figure 8 - Change repository](image)

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.

<table>
<thead>
<tr>
<th>Version</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product version</td>
<td>3.5.2.1642290-6037f3a5 (Updates available)</td>
</tr>
<tr>
<td>Update repository</td>
<td><a href="http://172.26.46.251/4v40/update/">http://172.26.46.251/4v40/update/</a></td>
</tr>
</tbody>
</table>

*Figure 9 - Updates check*

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.

*Figure 10 - VMware Cloud Director Availability version*

4.0.x → 4.1.x

1. Log in to the management interface at [https://Appliance-IP-Address/ui/admin](https://Appliance-IP-Address/ui/admin).

2. To proceed with the upgrade to 4.1.x, 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 4.1.0.XXXX and click Next.

![Update](image1)

**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.

![Version](image2)

**Figure 13 - VMware Cloud Director Availability version after a successful upgrade to 4.1**

### 4.0.x → 4.2.x

1. Log in to the management interface at [https://Appliance-IP-Address/ui/admin](https://Appliance-IP-Address/ui/admin).

2. To proceed with the upgrade to 4.2.x, 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.

![Repository](image3)

**Figure 14 - Change repository**
4. Select version 4.2.0.XXXX and click Next.

![Available updates](image)

**Figure 15 - 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.

![Version](image)

**Figure 16 - VMware Cloud Director Availability version after a successful upgrade to 4.2**

**4.1.x → 4.2.x**
1. Log in to the management interface at [https://Appliance-IP-Address/ui/admin](https://Appliance-IP-Address/ui/admin).
2. To proceed with the upgrade to 4.2.x, 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.

![Repository](image)

**Figure 17 - Change repository**
4. Select version 4.2.0.XXXX and click Next.

![Update](image)

**Figure 18 - 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.

![Version](image)

**Figure 19 - VMware Cloud Director Availability version after a successful upgrade to 4.2**

### 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:

   ![Change repository command-line output](image)

   **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:

```
root@vcda35-mgmt-70 [ ~ ]# sudo /opt/vmware/bin/vamicli update --check
Checking for available updates, this process can take a few minutes...
... 
Available Updates - 
  4.0.0.4532 Build 16407624
```

*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.

*Figure 22 - VMware Cloud Director Availability version*

4.0.x → 4.1.x

The only option for upgrading VMware Cloud Director Availability 4.0.x to 4.1.x 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 ([Upgrade steps for an upgrade through the UI](#)), or you can download the VMware Cloud Director Availability 4.1.x upgrade disk ISO file and proceed with an offline upgrade through the command-line([Upgrade steps for an upgrade through the command line](#)).

4.0.x → 4.2.x

The only option for upgrading VMware Cloud Director Availability 4.0.x to 4.2.x 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 ([Upgrade steps for an upgrade through the UI](#)), or you can download the VMware Cloud Director Availability 4.2.x upgrade disk ISO file and proceed with an offline upgrade through the command-line([Upgrade steps for an upgrade through the command line](#)).

4.1.x → 4.2.x

The only option for upgrading VMware Cloud Director Availability 4.1.x to 4.2.x 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 ([Upgrade steps for an upgrade through the UI](#)), or you can download the VMware Cloud Director Availability 4.2.x upgrade disk ISO file and proceed with an offline upgrade through the command-line([Upgrade steps for an upgrade through the command line](#)).
Upgrade from an ISO file

Prerequisites

- VMware Cloud Director Availability 4.0.0.2 and one of the 4.1.x and 4.2.x update disk ISO files. See the [How to obtain ISO files](#) 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 [https://Appliance-IP-Address/ui/admin](https://Appliance-IP-Address/ui/admin).
2. Go to the Configuration menu.
3. At the bottom, in the Version submenu, you will see the current product version and the repository.

![Figure 23 - VMware Cloud Director Availability version](#)

4. Change the repository to CDROM by clicking Edit.

![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.

![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.

![Figure 26 - VMware Cloud Director Availability version](image)

4.0.x → 4.1.x
1. Log in to the management interface at [https://Appliance-IP-Address/ui/admin](https://Appliance-IP-Address/ui/admin).
2. To proceed with the upgrade to 4.1.x, navigate to the **Configuration** menu click on **Check for updates**.
3. Select **Use CDROM Updates** and click **Next**.

![Figure 27 - Change the repository](image)

4. Select version 4.1.0.XXXX and click **Next**.

![Figure 28 - Select a version to upgrade](image)

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.
Upgrading VMware Cloud Director Availability

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 29 - VMware Cloud Director Availability version after a successful upgrade 4.1
```

4.0.x → 4.2.x

1. Log in to the management interface at https://Appliance-IP-Address/ui/admin.
2. To proceed with the upgrade to 4.2.x, navigate to the Configuration menu click on Check for updates.
3. Select Use CDROM Updates and click Next.

```
Figure 30 - Change the repository
```

4. Select version 4.2.0.XXXX and click Next.

```
Figure 31 - Select a version to 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.

   ![](image)

   **Figure 32 - VMware Cloud Director Availability version after a successful upgrade to 4.2**

### 4.1.x → 4.2.x

1. Log in to the management interface at [https://Appliance-IP-Address/ui/admin](https://Appliance-IP-Address/ui/admin).
2. To proceed with the upgrade to 4.2.x, navigate to the **Configuration** menu click on **Check for updates**.
3. Select **Use CDROM Updates** and click **Next**.

   ![](image)

   **Figure 33 - Change the repository**

4. Select version 4.2.0.XXXX and click **Next**.

   ![](image)

   **Figure 34 - Select a version to 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.

   ![](image)

   **Figure 35 - VMware Cloud Director Availability version after a successful upgrade to 4.2**
Upgrading VMware Cloud Director Availability

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

4. The output should look like this:
   ```sh
   root@vcd930-svc-001 [ /mnt/cdrom/update ]# sudo /opt/vmware/bin/vamicli update --repo cdrom://
   Set local repository address...
   OK.
   ```
   
   *Figure 36 - Change the repository through the command-line*

5. Check for updates with the following command:
   ```sh
   /usr/bin/sudo /opt/vmware/bin/vamicli update --check
   ```

6. The output should look like this:
   ```sh
   root@vcd930-svc-001 [ /mnt/cdrom/update ]# sudo /opt/vmware/bin/vamicli update --check
   Checking for available updates, this process can take a few minutes...
   Available Updates -
   4.0.0.4532 Build 16407624
   ```
   
   *Figure 37 - Check for updates through the command-line*

7. Install the update with the following command:
   ```sh
   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.

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

4.0.x → 4.1.x

1. Mount the VMware Cloud Director Availability 4.1.x 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:
   ```sh
   mount /mnt/cdrom
   ```

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

![Figure 39 - VMware Cloud Director Availability version after a successful upgrade to 4.1](image)

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

**4.0.x → 4.2.x**

1. Mount the VMware Cloud Director Availability 4.2.x 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.

![Figure 40 - VMware Cloud Director Availability version after a successful upgrade to 4.2](image)

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

**4.1.x → 4.2.x**

1. Mount the VMware Cloud Director Availability 4.2.x 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.

   ![Figure 41 - VMware Cloud Director Availability version after a successful upgrade to 4.2](image)

   **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**.

   ![Figure 42 - License compatibility issue after an upgrade](image)

   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**.

   ![Figure 43 - Reinstall VMware Cloud Director Availability plugin](image)
d. Enter the administrator username & password and click Apply.

![VMware Cloud Director Details](image)

*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:

# Changelog

<table>
<thead>
<tr>
<th>Date</th>
<th>Release</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mar 21</td>
<td>1.0</td>
<td>Initial release that covers upgrade path from VMware Cloud Director Availability 3.5 to 4.1</td>
</tr>
<tr>
<td>Jul 21</td>
<td>1.1</td>
<td>Added upgrade procedures for upgrading to VMware Cloud Director Availability 4.2</td>
</tr>
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