

Upgrading from CCMv1 to CCMv2 (Preview)

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Upgrading from CCMv1 to CCMv2

Upgrading from CCMv1 to CCMv2 is available for customers who created their environments with CCMv1. The upgrade requires no downtime.

Both CCMv1 and CCMv2 provide the same functionality. However, as with all software, version 2 is an improvement over version 1: CCMv2 is more efficient in communicating with the CDP Control Plane and has a smaller footprint on the customer network than CCMv1.

The differences between CCMv2 and CCMv1 are related to improving reliability and efficiency. These differences are as follows:

- CCMv2 uses fewer agents (its agents are on FreeIPA nodes only), whereas CCMv1 has a larger footprint, with its agents running across not only on FreeIPA nodes but also on Data Lake and Data Hub nodes.
- CCMv2 uses the HTTPS protocol. In contrast, CCMv1 is based on the SSH protocol.
- Since CCMv2 uses HTTPS, it is more proxy-friendly. Customers can set up a proxy server such as Squid and inspect the underlying traffic to be more confident about the data that is being sent to the CDP Control Plane.
- CCMv2 supports token authentication.
- Newer Cloudera services, such as Machine Learning, Data Engineering, DataFlow, Data Warehouse, and others, only support CCMv2.

Prerequisites

1. To perform the upgrade, your account must have the following entitlements granted:
 - CDP_CCM_V1_TO_V2_JUMPGATE_UPGRADE
 - CDP_CCM_V2_TO_V2_JUMPGATE_UPGRADE

Once the entitlements have been granted, you can upgrade to the latest FreeIPA image if needed and then trigger a CCM upgrade from CDP web interface.

2. Install Beta CDP CLI. See [Installing Beta CDP CLI](#).

Steps

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1. Check the version of CCM that you are currently on, you can run the following command using Beta CDP CLI after replacing `<ENVIRONMENT-NAME>` with an actual value:

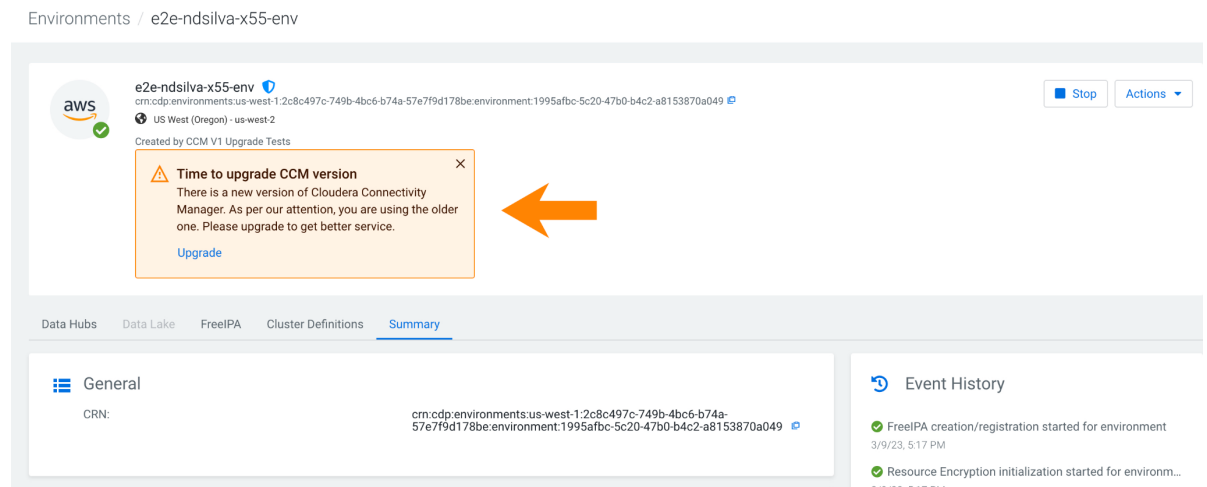
```
cdp environments describe-environment
--environment-name=<ENVIRONMENT-NAME> --output=json | yq -r
'.environment.tunnelType'
```

CDP will return one of the following values:

- CCM (if CCMv1 is installed)
- CCMV2 (if CCMv2 is installed)

If your CCM version is CCM, you should upgrade to CCMv2.

2. Prior to upgrading CCM, you should ensure that you are using the latest FreeIPA image. To upgrade your FreeIPA, follow the steps described in [Upgrade FreeIPA](#).
3. Upgrade CCM either via CDP web interface or CLI:
 - a. UI: Navigate to the **Management Console > Environments** and click on the tile corresponding to a specific environment. Trigger the upgrade by clicking on the **Upgrade** button:



- b. Beta CDP CLI: Use the following command:

```
cdp environments upgrade-ccm --environment
<ENV_NAME_OR_CRN>
```

4. The status of your environment changes while the upgrade is pending. All environment components get upgraded (FreeIPA, Data Lake, and then Data Hubs). Check the event history to confirm that the upgrade has been completed. Once the upgrade has been completed, the status of the environment changes

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back to “Running”. If an error occurs during the process, CDP rolls back the upgrade and reverts the environment to CCMv1.