

CDE In-place Upgrades (Preview)

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CDE in-place upgrades overview

Cloudera Data Engineering (CDE) supports in-place upgrades on both AWS and Azure. You can upgrade from the previous CDE release to the latest release. The upgrades can be triggered by an Admin from the CDE user interface.

Important:

Before you begin the in-place upgrade you must:

- Pause all airflow schedules and stop all Spark jobs running in the service.
- Backup all jobs running in the service.

Note: CDE currently supports upgrades from two CDE versions prior to the latest. For example, if the current CDE version is 1.18, then upgrades are supported from CDE 1.16.

CDE in-place upgrades include the following features:

- Upgrade retries : in-built and user initiated.
- Upgrade logs for the CDE service and Virtual Cluster initiate, success, and failed events.

How to

Important: This is a technical preview feature that is behind an entitlement, reach out to your Cloudera representative to enable this feature.

Steps

1. On CDE Control Plane UI listing all CDE services, click **Upgrade**, which may show up for one or more of the CDE Services, as shown in the below screenshot.

Note: An **Upgrade** option is displayed if only there is an upgrade available for a particular CDE Service.

NODES	CPU	MEMORY
1	0	0 MB

An **Upgrade CDE Service cldr-service** dialog box appears.

2. Confirm that you have paused all airflow schedules and stopped all spark jobs, and have backed up all jobs running in the service you wish to upgrade as shown in the figure below.

For more information, see [Backing up Cloudera Data Engineering jobs](#)

Upgrade CDE Service cldr-service ✕

Cloudera Data Engineering service version 1.15 is now available. Please review the following document for the CDE service upgrade.

Release Notes

Upgrading can result in several minutes of CDE service downtime. During that period you will be unable to use the Virtual Clusters.

- Ensure that you have paused all airflow schedules and stopped all spark jobs running in the service.
- Ensure that you have backed up all jobs running in the service.

Cancel

Upgrade CDE Service

3. Click **Upgrade CDE Service**.
The process may take several minutes to complete.

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4. Click the **View Upgrade Events** link on the CDE Service tile while the upgrade is in progress to get the logs of upgrade events (CDE service and Virtual Cluster initiate, success, and failed events).
5. CDE provides a built-in retry mechanism in the event of an upgrade failure (which is indicated in the CDE Service status). You can also trigger a manual retry by clicking on **Upgrade** if the built-in retry times out or fails.

Known Issue

DEX-7286 In place upgrade (Technical Preview) issue: Certificate expired showing error in browser

Certificates failure after an in-place upgrade from 1.14.

Start the certificate upgrade:

Get cluster ID

1. Navigate to the Cloudera Data Engineering Overview page by clicking the Data Engineering tile in the Cloudera Data Platform (CDP) management console.
2. Edit device details.
3. Copy cluster ID field into click board.
4. In a terminal set the CID environment variable to this value.

```
export CID=cluster-1234abcd
```

Get session token

1. Navigate to the Cloudera Data Engineering Overview page by clicking the Data Engineering tile in the Cloudera Data Platform (CDP) management console.
2. Right click and select Inspect
3. Click the Application tab.
 - a. Click Cookies and select the URL of the console.
 - b. Select cdp-session-token.
 - c. Double click the displayed cookie value and right click and select Copy.
 - d. Open a terminal screen.

```
export CST=<Paste value of cookie here>
```

Force TLS certificate update

```
curl -b cdp-session-token=${CST} -X 'PATCH' -H 'Content-Type: application/json' -d '{"status_update":"renewTLSCerts"}' 'https://<URL OF CONSOLE>/dex/api/v1/cluster/${CID}'
```

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