

## Managing Flow Deployments

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# CLOUDERA

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## The Deployments view

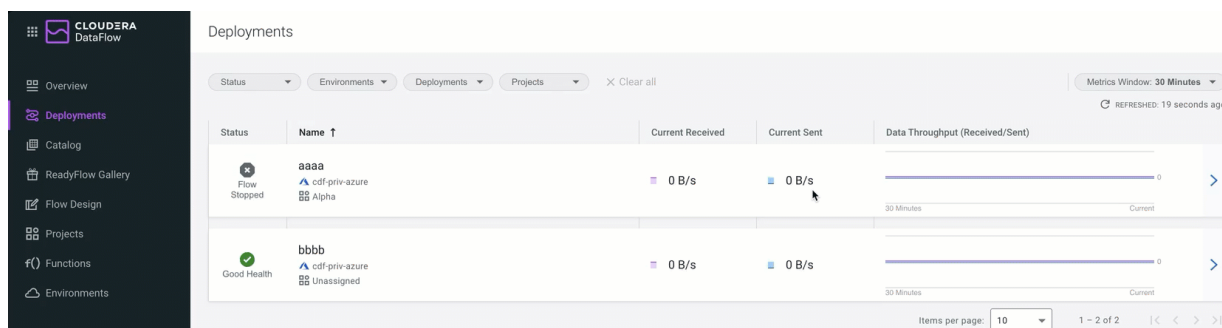
The Deployments page is the central place to monitor flow deployments across workspaces. It lists all flow deployments that you are allowed to view.

### About this task

You can customize this page view by using the Status, Environments, Deployments, Projects, and Items per page.

### Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click **Actions**  **Manage Deployment**.  
You are redirected to the **Deployment Manager** page.
5. In Deployment Details, click **Actions** to access various flow management options.
  - Select **Actions Manage Deployment** to access **Deployment Manager** where you can perform various management actions from the Actions drop-down. Under **Deployment Settings** you can also view and edit KPIs, alerts, parameters, sizing and scaling.
  - Select **Actions View in NiFi** to access the NiFi cluster where you can view and edit your flow.
  - Select **Actions View Workspace** to display all resources available to you within the present environment, providing a central place to view and manage them.



## Viewing data flow in NiFi

You can go to the NiFi cluster where your flow is deployed and view or edit the data flow.

### About this task

When you access the NiFi cluster, the ability to view or edit the flow is based on your Cloudera Data Flow authorizations. The DFFlowUser role has read-only privileges. The DFFlowAdmin role has full privileges.

### Before you begin

You must have deployed a data flow in Cloudera Data Flow.

### Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. Click Actions View in NiFi .

The UI for the NiFi cluster where your flow is deployed opens.

5. View your data flow or edit it based on your NiFi privileges.

If you edit the flow in NiFi and want the changes to exist in a new deployment, perform the following steps:

- a) Download the flow as a flow definition.

For more information, see *Downloading a flow definition from NiFi*.

- b) Import the flow definition (as a new flow definition or as a new version of an existing flow definition).

For more information, see *Importing a flow definition to Cloudera Data Flow*.

- c) Deploy the flow definition.

For more information, see *Deploy a flow*.

### Related Information

[Downloading a flow definition from NiFi](#)

[Importing a flow definition to Cloudera Data Flow](#)

[Deploy a flow](#)

## Starting a flow

You can start a stopped flow a Cloudera Data Flow deployment.


### About this task

Starting a flow deployment starts all processors of a Cloudera Data Flow deployment.

### Before you begin

- You must have a stopped flow deployment in Cloudera Data Flow.
- You must have DFFlowAdmin permission.

### Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click Actions  Manage Deployment .  
You are redirected to the **Deployment Manager** page.

5. Click Actions in the **Deployment Manager** page.

Deployment Manager

STATUS: Good Health

ENVIRONMENT: cdf-priv-azure

PROJECT: Beta

NIFI RUNTIME VERSION: 1.25.0.2.3.13.0-13

DEPLOYMENT NAME: cdev\_test

NODE COUNT: 1

REGION: West US 2

FLOW DEFINITION: Hello World CSV V.1

AUTO SCALING: Disabled

DEPLOYED BY: [User]

CRN #: crn:cdp:df:us-we

CREATED ON: 2024-02-26 18:55 GMT+1

LAST UPDATED: 2024-02-27 11:58 G

Actions:

- View in NiFi
- Stop flow
- Change NiFi Runtime Version
- Change Flow Version
- Export Configuration
- Download NiFi Log
- Restart Deployment
- Suspend Deployment
- Reassign
- View Workspace
- Manage Deployments
- Terminate

Recreate Deployment CLI Command

Deployment Settings

6. Select Start flow.

The Start [Deployment Name] pop-up appears.

7. Confirm your choice by clicking Start Flow.

## Stopping a flow

Stopping the flow of a Cloudera Data Flow deployment temporarily pauses the Apache NiFi flow.

### About this task


Stopping a flow results in the following:

- All processors are stopped and no data processing happens within the NiFi flow.
- KPI alerts are stopped. Your KPI alerts are activated again when the flow is restarted.
- Any active KPI alerts are resolved.
- All underlying cloud resources remain allocated for the Cloudera Data Flow deployment.
- You can modify deployment configuration while the flow is stopped.
- Stopped flows are still billable however if auto-scaling is enabled for the flow, a certain amount of cost reduction may occur.

### Before you begin

- You must have deployed a flow definition in Cloudera Data Flow.
- You must have DFFlowAdmin permission.

### Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click **Actions**  **Manage Deployment** .  
You are redirected to the **Deployment Manager** page.

5. Click Actions in the **Deployment Manager** page.

Deployment Manager

STATUS: Good Health

ENVIRONMENT: cdf-priv-azure

PROJECT: Beta

NIFI RUNTIME VERSION: 1.25.0.2.3.13.0-13

DEPLOYMENT NAME: cdev\_test

NODE COUNT: 1

REGION: West US 2

FLOW DEFINITION: Hello World CSV V.1

AUTO SCALING: Disabled

CREATED ON: 2024-02-26 18:55 GMT+1

DEPLOYED BY: [User]

CRN #: crn:cdp:dfs:us-we

LAST UPDATED: 2024-02-27 11:58 G

REFRESHED: 5 seconds ago

Actions

- View in NiFi
- Stop flow
- Change NiFi Runtime Version
- Change Flow Version
- Export Configuration
- Download NiFi Log
- Restart Deployment
- Suspend Deployment
- Reassign
- View Workspace
- Manage Deployments
- Terminate

> Recreate Deployment CLI Command

Deployment Settings

6. Select Stop flow.

The Stop [Deployment Name] page appears.

7. Click Stop Flow to stop the flow deployment.

## Changing NiFi runtime version

You can change the Apache NiFi runtime version for your flow deployment. Generally, you change NiFi runtime version to pick up hotfixes and the latest NiFi version. However, when you create a flow deployment you can also pick the NiFi version to align with your flow certification needs. Cloudera recommends that you always use the latest NiFi version if possible.

### About this task

If you opt to change the NiFi runtime version, the process is carried out node by node. If your flow deployment has multiple nodes, the flow deployment continues to run. If the flow deployment has only one node, it stops for a short period of time.

### Before you begin

- You must have deployed a flow definition in Cloudera Data Flow.
- You must have the DFFlowAdmin role.

### Procedure

- Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
- Click Deployments from the left navigation pane.
- Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
- In Deployment Details, click Actions Manage Deployment .  
You are redirected to the **Deployment Manager** page.

## 5. Click Actions in the **Deployment Manager** page.

The screenshot shows the 'Deployment Manager' page for a deployment named 'cdev\_test'. The deployment is in 'Good Health' status. The 'Actions' menu is expanded, showing options like 'View in NiFi', 'Stop flow', 'Change NiFi Runtime Version', 'Change Flow Version', 'Export Configuration', 'Download NiFi Log', 'Restart Deployment', 'Suspend Deployment', 'Reassign', 'View Workspace', and 'Terminate'. A green arrow points to the 'Actions' button.

STATUS	DEPLOYMENT NAME	FLOW DEFINITION	DEPLOYED BY
Good Health	cdev_test	Hello World CSV V.1	

ENVIRONMENT	NODE COUNT	AUTO SCALING	CRN #
cdf-priv-azure	1	Disabled	crn:cdp:df:us-we

PROJECT	REGION	CREATED ON	LAST UPDATED
Beta	West US 2	2024-02-26 18:55 GMT+1	2024-02-27 11:58 G

NIFI RUNTIME VERSION  
1.25.0.2.3.13.0-13

[Recreate Deployment CLI Command](#)

Deployment Settings

## 6. Select Change NiFi Runtime Version.

The Change NiFi Runtime Version page appears. It shows the current NiFi runtime version and a list of available version numbers.

## 7. Select the new version number from the New Version dropdown, and click Update.

# Changing flow version

The change flow version feature eliminates the need to tear down and rebuild your flow deployments when changing to another flow definition version. Consider restrictions and available version change strategies.



**Important:** As every flow is unique, you need to test version change before performing it in a production environment

## Restrictions

The following restrictions apply to flow version changes:

- Changing inbound connections is not supported.
- Changing custom resource (custom NARs and custom Python resources) configurations is not supported.
- While you can add, change or remove assets when moving to a new version, you cannot introduce assets (text files, binaries, JARs, or similar) if the currently deployed version does not have any.
- Components where state or provenance and other repositories must be kept between flow versions must keep their flow JSON ids. The id changes if you move the component to a different process group or if you delete and then re-add the component to the same process group. NiFi identifies components by these ids. If you move a component to a different process group between versions, its id changes and NiFi perceives it as a new component. This results in the original component being deleted during flow version change together with its state and a new, identical processor being created in a different process group. In an extreme case, you could change to an identical flow version with just the component ids changed and it would result in the deletion of the entire NiFi flow and the recreation of an identical one, with all history and data lost.
- Remapping Parameter Group and Parameter Context assignments is not supported as the original assignment is not removed. For example, you have Process Group 1 (PG1) with Parameter Context 1 (PC1) and Process Group 2 (PG2) with Parameter Context 2 (PC2) assigned. If you initiate a flow version change where parameter contexts are flipped, resulting in a PG1-PC2 and PG2-PC1 assignment, NiFi will not re-map the PG to PC assignments.

## Version change strategies

Depending on the type of your flow, you may select the flow version change strategy most appropriate to you.

## Stop & Process Data



This strategy prioritizes data consistency by stopping source processors and waiting until data is processed before stopping all other components. Once all components have stopped, the flow version is changed and components are started.

Use this strategy when your sources are durable and can handle your source processor being stopped. This generally works well when your source processors are pulling data from sources like Kafka or other messaging queues, databases or file systems.

Should the queued data not be processed within the set time, version change will fail and you can retry the operation with a bigger timeout or you can cancel

### Only Restart Affected Components

This strategy prioritizes uptime by identifying and stopping only components that have changed while keeping all others running, replacing and then starting affected components.

Use this strategy when you want to prioritize uptime of unchanged components or you have made only minor processor configuration changes.

This works well for deployments with inbound connections and will keep your source processors running if they have not changed compared to the previous version.

### Stop & Empty Queues

This strategy forces a version change by stopping all components, emptying all queues, changing flow version, and then starting all components.

Use this strategy only when you want to force a flow version change without keeping any processors running or attempting to process queued data.

All processors will be stopped and all queues will be emptied as part of this strategy.

### Related Information

[Shared parameter groups](#)


## Change flow version steps

Learn how to change the flow definition version of a running flow deployment. Using the ‘change flow version’ capability eliminates the need to terminate and re-create deployments when you want to deploy a new version of your flow definition.

### Before you begin

- You must have DFFlowAdmin permission.
- There is at least one more version for the same flow definition present in the catalog
- The state of the flow deployment is either Good Health or Stopped.
- You have read the applicable restrictions and version change strategies.

### Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click **Actions**  **Manage Deployment** .  
You are redirected to the **Deployment Manager** page.

5. Click Actions in the **Deployment Manager** page.

Deployment Manager

STATUS: Good Health

ENVIRONMENT: cdf-priv-azure

PROJECT: Beta

NIFI RUNTIME VERSION: 1.25.0.2.3.13.0-13

DEPLOYMENT NAME: cdev\_test

NODE COUNT: 1

REGION: West US 2

FLOW DEFINITION: Hello World CSV V.1

AUTO SCALING: Disabled

CREATED ON: 2024-02-26 18:55 GMT+1

DEPLOYED BY: [User]

CRN #: crn:cdp:df:us-we

LAST UPDATED: 2024-02-27 11:58 G

REFRESHED: 5 seconds ago

Actions

- View in NiFi
- Stop flow
- Change NiFi Runtime Version
- Change Flow Version
- Export Configuration
- Download NiFi Log
- Restart Deployment
- Suspend Deployment
- Reassign
- View Workspace
- Manage Deployments
- Terminate

Recreate Deployment CLI Command

Deployment Settings

6. Select Change Flow Version.

The **Change Flow Version** modal window opens. It shows the list of available flow versions. The current version is grayed out.



**Tip:** You can filter versions by name or by tags.

7. Select the flow version you want to change to and click Continue .

8. Review a summary of the configuration changes caused by the version change and make any necessary edits from the left pane.

9. Select a flow version change strategy.

The available options are:

- Stop & Process Data - If you select this strategy, you can set the maximum wait time for data to be processed and queues to be emptied before the request timed out. The default value is 15 minutes.



**Note:** If you initiate flow version change with this strategy on a stopped flow and there is no data in the queues, flow version change instantly happens regardless of the wait time you configured. However if there is data left in the queues of the stopped flow, the change operation instantly fails.

- Only Restart Affected Components



**Note:** If you initiate flow version change with this strategy and there are queued flow files on any connection that is going to be removed in the new flow version, the version change will fail.

- Stop & Empty Queues - If you select this strategy, you must accept potential data loss by selecting I understand and choose to proceed with the configuration as is.

10. Click Change Flow Version.

## Results

After you click Deploy, you are redirected to the **Alerts** tab in the **Flow Details** view where you can track how the version change progresses.

## Change flow version troubleshooting

If changing the flow version fails, you can investigate the root cause in Cloudera Data Flow and in NiFi. In certain cases you can retry or cancel the operation.

## Procedure

- Check the cause of the failure on the **Alerts** tab of the flow details view.
- If the information provided on the **Alerts** tab is insufficient, try checking the NiFi UI.

Select **Actions View In NiFi** .

- If version change fails during the preparatory phase, before any actual changes were made, you have the option to cancel. This will roll back your flow to the state before initiating the version change. Cloudera Data Flow only offers this option when a rollback is possible.

Select **Actions**  **Manage Deployment Cancel Version Change** .

- Another option when version change fails during the preparatory phase is to retry the operation, possibly with a longer timeout or different parameter values in case incorrect parameter values caused the version change to fail.

Select **Actions**  **Manage Deployment Retry Version Change** .

## Downloading NiFi application log

You can download the NiFi application log from the CDF Deployment Manager to use it for troubleshooting.


### About this task

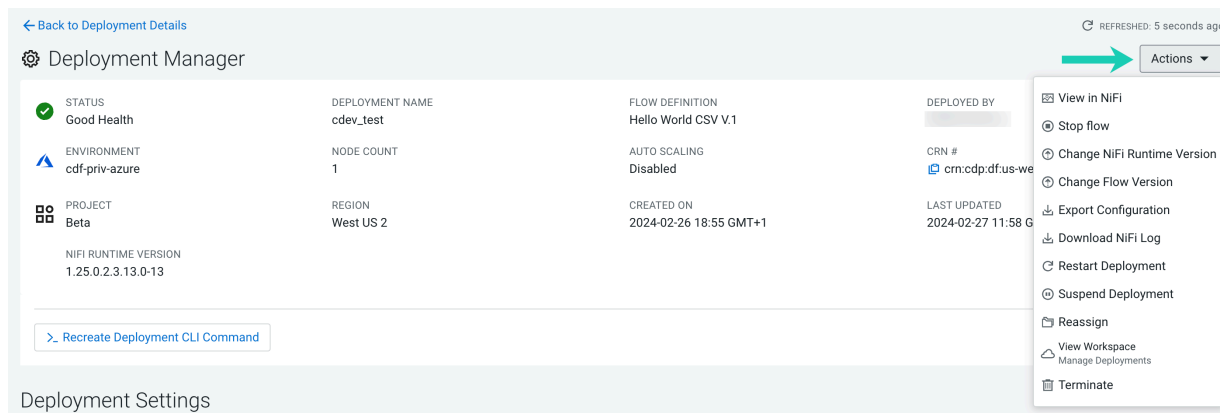
This feature allows you to download the NiFi application log that is currently being written. As the log file is rotated and the old file is archived once the file size reaches 10 MB, this is the theoretical maximum you can download using this method. For information on downloading archived log files, see *Dagnostic bundle collection*.

### Before you begin

You need DFFlowAdmin permission to perform this action.

## Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click **Actions**  **Manage Deployment** .  
You are redirected to the **Deployment Manager** page.
5. Click **Actions** in the **Deployment Manager** page.



Deployment Manager

<b>STATUS</b> Good Health	<b>DEPLOYMENT NAME</b> cdev_test	<b>FLOW DEFINITION</b> Hello World CSV V.1	<b>DEPLOYED BY</b> [User]
<b>ENVIRONMENT</b> cdf-priv-azure	<b>NODE COUNT</b> 1	<b>AUTO SCALING</b> Disabled	<b>CRN #</b> crn:cdp:dfus-we
<b>PROJECT</b> Beta	<b>REGION</b> West US 2	<b>CREATED ON</b> 2024-02-26 18:55 GMT+1	<b>LAST UPDATED</b> 2024-02-27 11:58 G

**NIFI RUNTIME VERSION**  
1.25.0.2.3.13.0-13

[Recreate Deployment CLI Command](#)

Deployment Settings

**Actions**

- View in NiFi
- Stop flow
- Change NiFi Runtime Version
- Change Flow Version
- Export Configuration
- Download NiFi Log
- Restart Deployment
- Suspend Deployment
- Reassign
- View Workspace
- Manage Deployments
- Terminate

6. Select Download NiFi Log.

Results

The current NiFi application log is downloaded to your computer in tar.gz format.

Related Information

[Diagnostic bundle collection](#)

# Suspending a deployment

Suspending a Cloudera Data Flow deployment terminates cloud resources belonging to an Apache NiFi flow, while maintaining flow persistence.

About this task


Suspending a Cloudera Data Flow deployment results in the following:

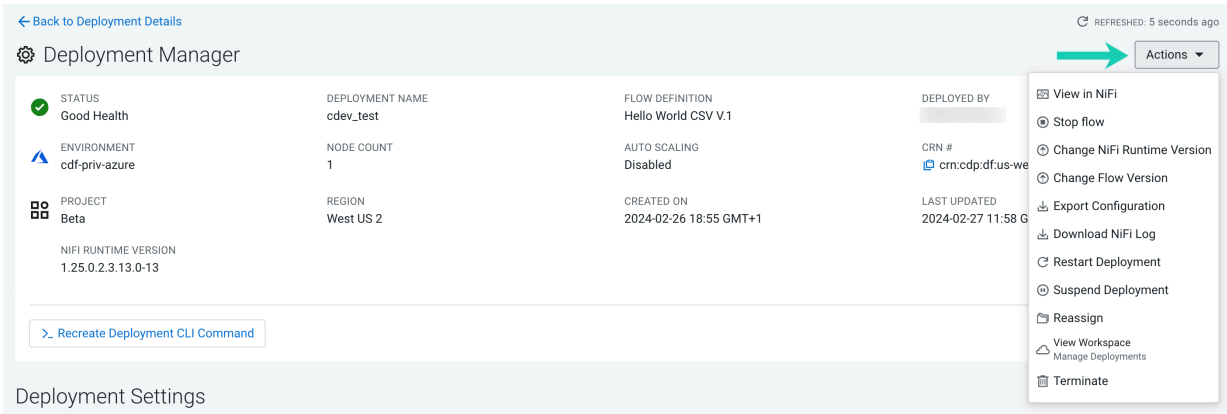
- The NiFi flow stops processing data and all underlying cloud resources are terminated. Any unprocessed data in the flow is stored in memory and its processing resumes when you resume the deployment.
- Flow persistence is maintained while a deployment is suspended.
- You cannot modify deployment configuration while the deployment is suspended.
- Suspended deployments are not billable, resulting in reduced costs.

Before you begin

You must have deployed a flow definition in Cloudera Data Flow.

Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click Actions  Manage Deployment .  
You are redirected to the **Deployment Manager** page.
5. Click Actions in the **Deployment Manager** page.



6. Select Suspend Deployment.  
The Suspend [Deployment Name] page appears.
7. Click Suspend Deployment to suspend the Cloudera Data Flow deployment.

# Resuming a deployment

You can resume a suspended Cloudera Data Flow deployment.


## About this task

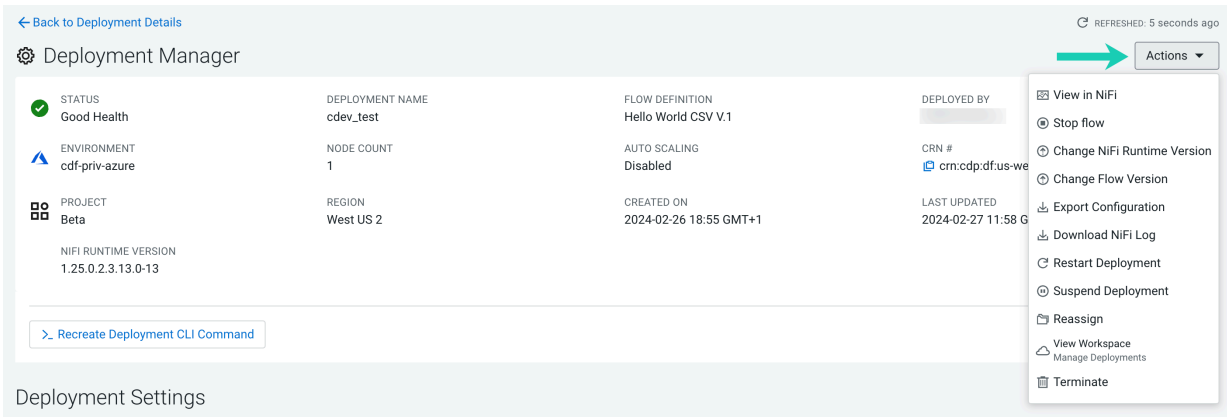
Resuming a Cloudera Data Flow deployment reallocates the underlying cloud resources and returns a deployment to the state it was in before being suspended.

## Before you begin

You must have a suspended flow deployment in Cloudera Data Flow.

## Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click **Actions**  **Manage Deployment** .  
You are redirected to the **Deployment Manager** page.
5. Click **Actions** in the **Deployment Manager** page.



6. Select Resume Deployment.  
The Resume [Deployment Name] pop-up appears.
7. Click Resume Deployment to resume the flow deployment, reallocating cloud resources.

# Export deployment configuration


You can export a deployment configuration to create additional deployments with a similar configuration in the same or a different environment.

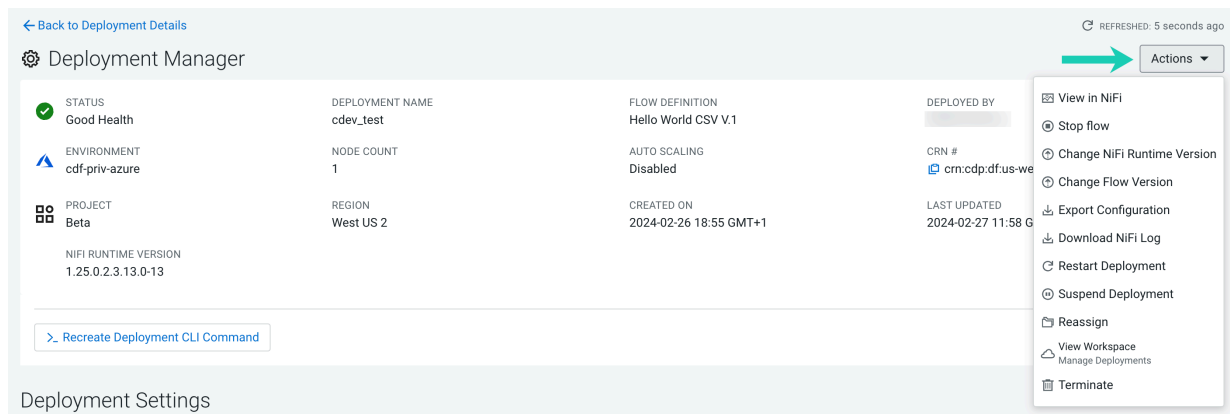
## About this task


- Exported configurations may be edited, and you can also modify them after the importing step during flow deployment.
- One deployment can have only one exported configuration. Performing a new export overwrites the existing one.

- Exported deployment configurations are available for every user who can start a new deployment in a given environment, even if the exported deployment was originally created under a specific Project.

## Procedure

- Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
- Click Deployments from the left navigation pane.
- Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
- In Deployment Details, click **Actions**  **Manage Deployment**.  
You are redirected to the **Deployment Manager** page.
- Click **Actions** in the **Deployment Manager** page.



- Select  **Export Configuration**.
- Confirm your choice by clicking **Export** in the pop-up.

## Results

The configuration is exported to the {LOG location}/cdf-deployment-backup directory. {LOG location} is configured during the creation of the associated Cloudera on cloud Environment. If you want to reuse the exported configuration in a different environment, you can either configure that to use the same {LOG location}, or you can copy the exported .tar.gz and JSON files to the {LOG location}/cdf-deployment-backup directory of the target environment.

## What to do next

You can reuse the exported configuration during deployment of the same flow definition to recreate a flow with similar configuration.

# Terminating a deployment

You can terminate a deployment to remove it from Cloudera Data Flow.


## About this task

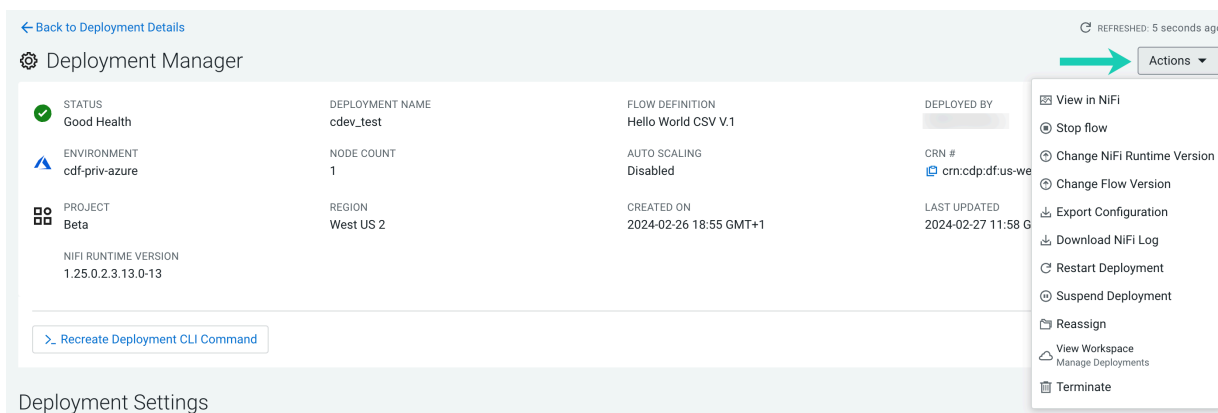
If you terminate a deployment, you delete the associated NiFi resources and your flow no longer remains active. The associated flow definition remains in the catalog and is available to be deployed again in a new deployment.

## Before you begin

You must have deployed a flow definition in Cloudera Data Flow.

## Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.
3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click  **Manage Deployment** .  
You are redirected to the **Deployment Manager** page.
5. Click Actions in the **Deployment Manager** page.



Deployment Manager

STATUS	DEPLOYMENT NAME	FLOW DEFINITION	DEPLOYED BY
Good Health	cdev_test	Hello World CSV V.1	

ENVIRONMENT	NODE COUNT	AUTO SCALING	CRN #
cdf-priv-azure	1	Disabled	crn:cdp:df:us-we

PROJECT	REGION	CREATED ON	LAST UPDATED
Beta	West US 2	2024-02-26 18:55 GMT+1	2024-02-27 11:58 G


NIFI RUNTIME VERSION  
1.25.0.2.3.13.0-13

[Recreate Deployment CLI Command](#)

Deployment Settings

6. Select Terminate.  
The Terminate [Deployment Name] page appears.
7. Enter the name of the deployment to confirm and click Terminate.



**Tip:** You can also click the  copy to clipboard icon to copy the deployment name, paste the name of the deployment, and then click Terminate.

## Editing a deployment

You can edit the KPIs, alerts, parameters, size and scale details of your flow deployment under Deployment Settings or using the CDP CLI.

### About this task

You can either edit your deployment on the Cloudera Data Flow UI or through the CLI.





### Before you begin

- You must have the DFFlowAdmin role assigned to perform this task.
- You must have deployed a flow definition in Cloudera Data Flow.

## Editing deployments on the user interface

### Procedure

1. Open Cloudera Data Flow by clicking the Data Flow tile in the Cloudera sidebar.
2. Click Deployments from the left navigation pane.

3. Select a flow deployment to expand the Deployment Details pane and get deployment, KPI, system metrics, alerts, and event history information.
4. In Deployment Details, click  **Actions** **Manage Deployment** .  
You are redirected to the **Deployment Manager** page.
5. Select KPIs and Alerts to edit KPIs or the alerts they trigger.
6. Select Sizing and Scaling
  - to change the size and number of NiFi nodes provisioned for your flow deployment
  - to toggle auto-scaling
  - to view storage type
7. Select Parameters to change flow deployment parameter values.
  - To edit a single parameter, click  next to the parameter.
  - To edit a parameter group click  **Edit Group**.
  - To import parameters from a shared parameter group, click  **Import Shared Parameters**. From the available shared parameter groups, select the parameters you want to import.
  - If a shared parameter group has been modified since it was imported to a deployment, you get a similar warning:

 Referenced shared parameter group test\_parameters has been modified. [Update Parameters](#)

Click **Update Parameters**, or **Update All Parameter Contexts** if you have several stale parameter contexts and you want to update them in one go. The **Update Parameters** dialog displays all changed parameters with the old and new values. Click **Update**.



**Tip:**

Check the UI for CLI usage examples to help you learn to automate your common Cloudera Data Flow tasks.

You can confirm by finding the Deployment Update success, in Alerts under **Deployment Details**.

8. Click **Apply Changes** before exiting each tab.

### Related Information

[Shared parameter groups](#)

## Editing a deployment using the CLI

### Before you begin

- You have installed CDP CLI.
- You have run `df list-deployments`. The output includes the `crn` field containing the deployment-crn and the `service.crn` field containing the environment-crn.
- To obtain the configuration-version, you have run the following command, the output of which contains the `configurationVersion` field containing the configuration-version value:

```
dfworkload get-deployment-configuration
--environment-crn [ ***ENVIRONMENT_CRN*** ]
--deployment-crn [ ***DEPLOYMENT_CRN*** ]
```



**Procedure**

- To edit an existing flow deployment, use the `cdp dfworkload update-deployment` command.

```
cdp dfworkload update-deployment
  --environment-crn <value>
  --configuration-version <value>
  --deployment-crn <value>
  [--parameter-groups <value>]
  [--auto-scaling-enabled | --no-auto-scaling-enabled]
  [--auto-scale-min-nodes <value>]
  [--auto-scale-max-nodes <value>]
  [--static-node-count <value>]
  [--kpis <value>]
  [--asset-update-request-crn <value>]
```

- `--static-node-count` – Specifies the number of NiFi nodes when autoscaling is not enabled. You can select between 1 and 32 nodes. The default value is 1.
- `--auto-scaling-enabled | --no-auto-scaling-enabled` – Specifies whether you want to enable autoscaling. The default is to disable autoscaling.
  - `--auto-scale-min-nodes` – Specifies the minimum nodes when you have autoscaling enabled. If you have autoscaling enabled, this parameter is required.
  - `--auto-scale-max-nodes` – Specifies the maximum nodes when autoscaling is enabled. If you have autoscaling enabled, this parameter is required.
- `--parameter-groups` – Specifies the location of the parameter group JSON file you, if you are using one for this flow deployment.
- `--kpis` – Specifies the location of the KPIs JSON file, if you are providing KPIs for this flow.

**Example**

Example of updating your static node count:

```
cdp dfworkload update-deployment \
  --environment-crn $ENVIRONMENT_CRN \
  --deployment-crn $DEPLOYMENT_CRN \
  --configuration-version $CONFIGURATION_VERSION \
  --static-node-count 2
```

**Example**

Example of how to use a .json file to update parameter values:

```
cdp dfworkload update-deployment \
  --environment-crn $ENVIRONMENT_CRN \
  --deployment-crn $DEPLOYMENT_CRN \
  --configuration-version $CONFIGURATION_VERSION \
  --parameter-groups file:///tmp/parameter-groups.json
```

## Setting up and managing notifications for a Cloudera Data Flow deployment

Learn how you can create and manage subscriptions to notifications for Cloudera Data Flow deployment events, and how you can create or modify notification distribution lists on the Cloudera Management Console.

## About this task

Both the description of the notification in the Cloudera Management Console and the email announcement contains a URL that allows you to easily navigate to your Cloudera Data Flow deployment.



### Note:

The URL only works for you if you have access to the resource where the alert originated.

## Before you begin

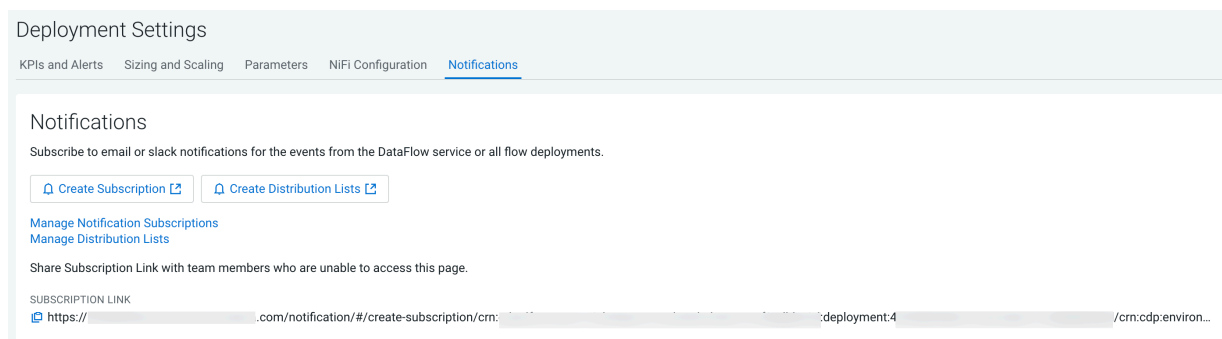
- You must have the DFFlowAdmin role for the Cloudera Data Flow deployment to access the **Manage Deployment** view.
- You must have the NotificationSubscriber role to create and manage subscriptions.
- You must have the NotificationDistributionListAdmin role to create and manage distribution lists.

## Procedure

1. In Cloudera Data Flow, from the **Deployments** page, select the deployment where you want to set up or configure notifications.
2. Click Actions in the **Deployment Details** pane.

You are redirected to the **Manage Deployment** view.

3. Under **Deployment Settings**, select the **Notifications** tab.



4. Select one of the following options:

- Click **Create Subscription** if you want to set up a new email or Slack subscription.  
For more information, see [Creating and managing subscriptions](#) in the Cloudera Management Console documentation.
- Click **Create Distribution Lists** if you want to set up a new distribution list.  
For more information, see [Creating and managing distribution lists](#) in the Cloudera Management Console documentation.
- Click **Manage Notification Subscriptions** if you want to configure an existing email or Slack subscription.  
For more information, see [Creating and managing subscriptions](#) in the Cloudera Management Console documentation.
- Click **Manage Distribution Lists** if you want to configure an existing distribution list.  
For more information, see [Creating and managing distribution lists](#) in the Cloudera Management Console documentation.
- Click under **SUBSCRIPTION LINK** to share the subscription link with team members who are not authorized to access the **Manage Deployment** view.

You are redirected to the Cloudera Management Console where you can set up and configure notifications.