

Upgrade

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Upgrading Cloudera Flow Management Operator for Kubernetes

Upgrade Cloudera Flow Management Operator for Kubernetes using helm upgrade after obtaining the required upgrade artifacts.

Before you begin

- Ensure that your Kubernetes environment meets requirements listed in [System requirements](#).
- A self-hosted Docker registry is required. Your registry must be accessible by your Kubernetes cluster.
- Access to docker or equivalent utility that you can use to pull and push images is required. The following steps use docker. Replace commands where necessary.
- Ensure that you have access to your Cloudera credentials (username and password). Credentials are required to access the Cloudera Archive and Cloudera Docker registry where installation artifacts are hosted.
- Ensure that you have access to a valid Cloudera license.
- Review the [Helm chart reference](#) before upgrade.

The Helm chart accepts various configuration properties that you can set during the upgrade. Using these properties you can customize your upgrade.

- A machine with Internet connectivity is required. While the Kubernetes cluster does not need internet access, you will need a machine to pull the images from the Cloudera Docker registry.
- Obtain the artifacts that are required for your upgrade.

Artifact	Location
Cloudera Flow Management Operator for Kubernetes Docker image	container.repository.cloudera.com/cloudera/cfm-operator:3.3.3-b17
Cloudera Flow Management Tini Docker image	container.repository.cloudera.com/cloudera/cfm-tini:3.3.3-b17
Cloudera Flow Management Operator for Kubernetes Helm chart	https://archive.cloudera.com/p/cfm-operator/cfm-operator-3.3.3-b17.tgz

Procedure

Upgrade Cloudera Flow Management Operator for Kubernetes running Helm upgrade.

```
helm upgrade cfm-operator [***PATH TO OPERATOR HELM CHART***] \
  --set namespace [***OPERATOR NAMESPACE***] \
  --set image.repository=[***IMAGE REPOSITORY***] \
  --set image.tag=3.3.3-b17 \
  --set licenseSecret=cfm-operator-license
  --set "imagePullSecrets=[***DOCKER PULL SECRET***]]"
```

Replace

- `[***PATH TO OPERATOR HELM CHART***]` with the path to the downloaded and unpacked Cloudera Flow Management Operator for Kubernetes Helm chart, for example,

```
./cfm-operator-3.3.3-b17.tgz
```

- `[***OPERATOR NAMESPACE***]` with the namespace where Cloudera Flow Management Operator for Kubernetes is installed, for example,

```
cfm-operator-system
```

- `[***IMAGE REPOSITORY***]` with the Cloudera Flow Management Operator for Kubernetes image repository.

- If you install from the Cloudera Docker Registry, replace it with

```
container.repository.cloudera.com/cloudera/cfm-operator
```

- If you install from a self-hosted private registry, replace it with your internal registry URL.
- [****DOCKER PULL SECRET****] with the Kubernetes secret you created during Cloudera Flow Management Operator for Kubernetes installation.

Upgrading NiFi

Upgrade the NiFi cluster by editing the Nifi CR and changing the NiFi version. NiFi v2 deployments support rolling upgrades, while NiFi v1 deployments experience service downtime during an upgrade.

Before you begin

Make sure that you have access to the latest NiFi image required for your update.

Both the Cloudera Docker registry and the Cloudera Archive require Cloudera credentials (username and password) for access. These credentials are provided to you as part of your license and subscription agreement and can be used to access both the registry and the archive.

Artifact	Location
Apache NiFi Docker images	https://container.repository.cloudera.com/cloudera/cfm-nifi-k8s:3.1.0-b129-nifi_1.28.1.2.3.17.0-9
	https://container.repository.cloudera.com/cloudera/cfm-nifi-k8s:3.1.0-b129-nifi_2.6.0.4.12.0.1-9

About this task

Terminology:

- An upgrade involves changing the NiFi version. If you only change NiFi configuration without version change, it is not considered an upgrade.
- A rolling upgrade is when Kubernetes cycles pods one at a time so at least one pod always stays active during the process.
- A non-rolling upgrade is when all pods are deleted automatically all at once and then restarted, expect some downtime during the restart.

Scenarios:

- You change the NiFi configuration, but do not change the NiFi version number: a rolling upgrade will be performed, regardless of NiFi version.
- You upgrade from NiFi v1 to a different NiFi v1 version (for example, from NiFi 1.26.0 to 1.26.1): a non-rolling upgrade will be performed, as NiFi v1 does not support version changes in a rolling manner.
- You upgrade from a NiFi v2 to a different NiFi v2 version (for example from 2.3.1 to 2.6.0): a rolling upgrade will be performed.
- You migrate from NiFi v1 to NiFi v2: a non-rolling upgrade will be performed.

Cloudera Flow Management Operator for Kubernetes picks the supported rollout strategy automatically.

Procedure

1. To upgrade NiFi, change spec.image.tag in the Nifi CR to the new image tag. If the image does not embed a version in its tag, you must also set spec.nifiVersion.

If the image tag includes version info:

```
apiVersion: cfm.cloudera.com/v1alpha1
kind: Nifi
metadata:
  name: my-nifi
spec:
  image:
    tag: "[***CHANGE THIS VALUE***]"
```

If the image tag does not include version info:

```
apiVersion: cfm.cloudera.com/v1alpha1
kind: Nifi
metadata:
  name: my-nifi
spec:
  nifiVersion: "[***PROVIDE THIS VALUE***]"
  image:
    tag: "latest"
```

2. Track progress by watching ClusterReadyCondition on the CR status — it goes False during the rollout and back to True once all pods are ready.

Related Information

For more information on `spec.image.tag` and `spec.nifiVersion`, see [Configuring the NiFi image](#).