

Cloudera Edge Management 2.4.0

Cloudera Edge Management Release Notes

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CLOUDERA

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What's new in Edge Flow Manager

Edge Flow Manager allows you to manage, control, and monitor agents that are deployed on edge devices in IoT implementations. You can use these agents to collect real-time data from the devices to create and push actionable intelligence and insights directly to the data's origin.

Edge Flow Manager 2.4.0 introduces the following new features and improvements:

Flow lifecycle control

You can now start and stop flows in Cloudera Edge Management providing greater operational flexibility and safer deployment management.

Flows are started automatically after deployment, and you can:

- Start and stop flow execution at both the agent class and individual agent levels
- Start and stop flows using the Edge Flow Manager UI or API
- Pause flows for maintenance

Upgrade impact:

After upgrading, existing flows remain stopped until you start them manually.

Supported agent versions

This feature is version-dependent and supported by both C++ and Java agents.

- Cloudera Edge Management MiNiFi C++ Agent 1.26.02 is the first C++ agent version that supports flow lifecycle control.
- Support for flow lifecycle control is not yet available for the Cloudera Edge Management MiNiFi Java Agent.

Agent binaries management

Edge Flow Manager now includes a centralized repository for managing agent binaries. You can:

- Download agent binaries directly from the Cloudera archive
- Upload custom agent binaries for use in deployments
- Automatically distribute binaries across Edge Flow Manager nodes
- View and manage binaries in the new Agent Binaries Repository page
- Remove obsolete or unused binaries using the UI

Enhanced processor configuration

Extra configuration tabs are now available for the JoltTransformJSON and UpdateAttribute processors, providing a more tailored editing experience in the Flow Designer.



Important: The processor-specific extra configuration tab is currently available only for MiNiFi Java agents.

Configuration inconsistency alerts

Edge Flow Manager now detects and alerts you about configuration inconsistencies within an agent class, including:

- Property synchronization in progress
- Resource synchronization in progress
- Manifest out-of-sync conditions

These alerts help users identify and resolve configuration issues. Out-of-sync manifest alerts link directly to the **Agent Manager**, enabling faster issue resolution.

Agent manifest viewer

A new Agent Manifest tab has been added to the Agent Manager interface.

You can:

- View the agent manifest as JSON directly within the Agent Manager UI
- Copy a direct link to the agent manifest for easy sharing or troubleshooting

This improves transparency and simplifies inspection of agent configurations.

Referencing assets from parameters

You can now reference assets, such as flow definitions and templates, from different contexts within Edge Flow Manager. This improves the reusability of assets and the collaboration across projects and teams.

Windows agent deployment behavior change

When deploying MiNiFi C++ Agent 1.26.02 on Windows using the agent deployer, the agent is installed to the standard installation directory, consistent with the Windows installer behavior. Previously, the deployer installed the agent into the current working directory.

Edge Flow Manager download locations

Identify the appropriate Edge Flow Manager repository location for your operating system and operational objectives.



Note: You must have credentials to download Edge Flow Manager files. Your download credential is not the same as the credential you use to access the Cloudera Support Portal.

To obtain download credentials, you can:

- Contact your Cloudera sales representative.
- Refer to the Welcome email for your Cloudera Edge Management account.
- File a non-technical case on the [Cloudera support portal](#)

For detailed system requirements and the list of supported processors for Edge Flow Manager, see the [System requirements for Edge Flow Manager](#).

Table 1: Standalone components (OS agnostic)

File	Location
Edge Flow Manager tar file	https://archive.cloudera.com/p/CEM/2.4.0.0/ubuntu20/apt/tars/efm/efm-2.4.0.0-77-bin.tar.gz
Edge Flow Manager zip file	https://archive.cloudera.com/p/CEM/2.4.0.0/ubuntu20/apt/tars/efm/efm-2.4.0.0-77-bin.zip
Edge Flow Manager Docker	<pre>docker login -u [***USERNAME***] -p [***PASSWORD***] container.repo.cloudera.com && docker pull container.repo.cloudera.com/cloudera/efm:2.4.0.0-77</pre>

Table 2: RHEL/CentOS 8

File	Location
Manifest	https://archive.cloudera.com/p/CEM/2.4.0.0/redhat8/yum/tars/parcel/manifest.json
Parcel	https://archive.cloudera.com/p/CEM/2.4.0.0/redhat8/yum/tars/parcel/CEM-2.4.0.0-77-el8.parcel
Parcel sha file	https://archive.cloudera.com/p/CEM/2.4.0.0/redhat8/yum/tars/parcel/CEM-2.4.0.0-77-el8.parcel.sha
CSD	https://archive.cloudera.com/p/CEM/2.4.0.0/redhat8/yum/tars/parcel/EFM-2.4.0.0-77.jar

Table 3: RHEL 9

File	Location
Manifest	https://archive.cloudera.com/p/CEM/2.4.0.0/redhat9/yum/tars/parcel/manifest.json
Parcel	https://archive.cloudera.com/p/CEM/2.4.0.0/redhat9/yum/tars/parcel/CEM-2.4.0.0-77-el9.parcel
Parcel sha file	https://archive.cloudera.com/p/CEM/2.4.0.0/redhat9/yum/tars/parcel/CEM-2.4.0.0-77-el9.parcel.sha
CSD	https://archive.cloudera.com/p/CEM/2.4.0.0/redhat9/yum/tars/parcel/EFM-2.4.0.0-77.jar

Table 4: Ubuntu 20

File	Location
Manifest	https://archive.cloudera.com/p/CEM/2.4.0.0/ubuntu20/apt/tars/parcel/manifest.json
Parcel	https://archive.cloudera.com/p/CEM/2.4.0.0/ubuntu20/apt/tars/parcel/CEM-2.4.0.0-77-focal.parcel
Parcel sha file	https://archive.cloudera.com/p/CEM/2.4.0.0/ubuntu20/apt/tars/parcel/CEM-2.4.0.0-77-focal.parcel.sha
CSD	https://archive.cloudera.com/p/CEM/2.4.0.0/ubuntu20/apt/tars/parcel/EFM-2.4.0.0-77.jar

Unsupported features

The following Edge Flow Manager features are not supported by Cloudera.

As of today, Edge Flow Manager is not compliant with the Federal Information Processing Standard (FIPS).

However, it can be deployed and executed in FIPS enabled environments using a FIPS security provider like Bouncy Castle FIPS Keystore (BCFKS).

Fixed issues

Review the list of issues that are resolved in the latest Edge Flow Manager release.

Fixed issues in Edge Flow Manager 2.4.0 include:

Improved performance of agent certificate expiry handling in Edge Flow Manager

Fixed an issue where Edge Flow Manager updated the agent certificate expiry date during every heartbeat whenever an X509Certificate was present, even if the expiry date had not changed. Agent records are now updated only when the certificate expiry date changes, reducing unnecessary database updates and improving performance.

Known issues

Review the list of known issues of the latest Edge Flow Manager release.

There are no known issues in Edge Flow Manager 2.4.0.

Deleting a resource assignment referenced by a flow parameter fails with a generic error

If a resource assignment is referenced by a flow parameter, attempting to delete it fails due to a database foreign key constraint. The UI currently displays only a generic error message and does not indicate that the resource assignment is still in use. The underlying cause is visible only in the logs.

Before deleting the resource assignment, remove or update any flow parameter references that use it.