Cloudera Edge Management 2.2.0

Cloudera Edge Management Release Notes

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What's new in Edge Flow Manager

Edge Flow Manager (EFM) enables 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 back to the place of data origin.

Edge Flow Manager 2.2.0.0 is a feature release with new features, performance improvements, and bug fixes, including:

New Flow Designer

> A modernized Flow Designer aligned with Cloudera DataFlow.

Automatic data polling

> Listings and data on the page are automatically reloaded every 30 seconds without a page refresh.

Flow version management

> You can now undo/redo previous changes in the Flow Designer and load any previously published flow version into the Flow Designer.

Resource Manager

> Resource Manager is an enhanced version of Asset Push, available through the EFM UI. The Asset Push functionality is deprecated and will be removed in future releases. With the Resource Manager, you can upload assets and extensions directly through the EFM UI, assign them to specific agent classes, and deploy new MiNiFi extensions or ML models at runtime. This ensures that all agents, including newly joined and offline ones, receive these files automatically as opposed to when using the Asset Push feature. For more information, see Managing resources.

Agent Manager persistent table layout

> Edits to the table layout are now persisted in your browser, allowing you to see your preferred columns in your defined order, even when navigating to another menu.

Bulk operation fine-tuning properties

> Additional configuration properties give you more control over batch operation queue limits, reducing EFM load by defining how many agents perform operations in parallel.

EFM download locations

Identify the Edge Flow Manager (EFM) repository location for your operating system and operational objectives.

> **Note:** You must have credentials to download EFM files. Your download credential is not the same as the credential you use to access the support portal.

You can get download credentials in the following ways:

- Contact your Cloudera sales representative.
- View the Welcome email for your Edge Management account.
- File a non-technical case on the Cloudera support portal for the Cloudera Support team to assist you.

For detailed system requirements and the list supported processors for EFM, see System requirements for EFM.

Table 1: Standalone components (OS agnostic)

File	Location
EFM tar file	https://archive.cloudera.com/p/CEM/ubuntu20/2.x/updates/2.2.0.0/tars/efm/efm-2.2.0.0-86-bin.tar.gz

File	Location
EFM zip file	https://archive.cloudera.com/p/CEM/ubuntu20/2.x/updates/2.2.0.0/tars/efm/efm-2.2.0.0-86-bin.zip

EFM Docker	<pre>docker login -u [***USERNAME***] -p [***PASSWORD***]
	container.repo.cloudera.com && docker pull container.repo.c
	loudera.com/cloudera/efm:2.2.0.0-86</pre>

Table 2: RHEL/CentOS 7

File	Location
Manifest	https://archive.cloudera.com/p/CEM/redhat7/2.x/updates/2.2.0.0/tars/efm/parcel/manifest.json
Parcel	https://archive.cloudera.com/p/CEM/redhat7/2.x/updates/2.2.0.0/tars/efm/parcel/CEM-2.2.0.0-86-el7.parcel
Parcel sha file	https://archive.cloudera.com/p/CEM/redhat7/2.x/updates/2.2.0.0/tars/efm/parcel/CEM-2.2.0.0-86-el7.parcel.sha
CSD	https://archive.cloudera.com/p/CEM/redhat7/2.x/updates/2.2.0.0/tars/efm/parcel/EFM-2.2.0.0-86.jar

Table 3: RHEL/CentOS 8

File	Location
Manifest	https://archive.cloudera.com/p/CEM/redhat8/2.x/updates/2.2.0.0/tars/efm/parcel/manifest.json
Parcel	https://archive.cloudera.com/p/CEM/redhat8/2.x/updates/2.2.0.0/tars/efm/parcel/CEM-2.2.0.0-86-el8.parcel
Parcel sha file	https://archive.cloudera.com/p/CEM/redhat8/2.x/updates/2.2.0.0/tars/efm/parcel/CEM-2.2.0.0-86-el8.parcel.sha
CSD	https://archive.cloudera.com/p/CEM/redhat8/2.x/updates/2.2.0.0/tars/efm/parcel/EFM-2.2.0.0-86.jar

Table 4: RHEL 9

File	Location
Manifest	https://archive.cloudera.com/p/CEM/redhat9/2.x/updates/2.2.0.0/tars/efm/parcel/manifest.json
Parcel	https://archive.cloudera.com/p/CEM/redhat9/2.x/updates/2.2.0.0/tars/efm/parcel/CEM-2.2.0.0-86-el9.parcel
Parcel sha file	https://archive.cloudera.com/p/CEM/redhat9/2.x/updates/2.2.0.0/tars/efm/parcel/CEM-2.2.0.0-86-el9.parcel.sha
CSD	https://archive.cloudera.com/p/CEM/redhat9/2.x/updates/2.2.0.0/tars/efm/parcel/EFM-2.2.0.0-86.jar

Table 5: Ubuntu 20

File	Location
Manifest	https://archive.cloudera.com/p/CEM/ubuntu20/2.x/updates/2.2.0.0/tars/efm/parcel/manifest.json
Parcel	https://archive.cloudera.com/p/CEM/ubuntu20/2.x/updates/2.2.0.0/tars/efm/parcel/CEM-2.2.0.0-86-focal.parcel
Parcel sha file	https://archive.cloudera.com/p/CEM/ubuntu20/2.x/updates/2.2.0.0/tars/efm/parcel/CEM-2.2.0.0-86-focal.parcel.sha
CSD	https://archive.cloudera.com/p/CEM/ubuntu20/2.x/updates/2.2.0.0/tars/efm/parcel/EFM-2.2.0.0-86.jar

Unsupported features

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

As of today, EFM 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 (EFM) release.

Fixed issues in EFM 2.2.0.0 include:

- Agent manifests were stored separately for each agent, which could cause the AGENT_MANIFEST database table to grow significantly when there are a large number of agents.
- Flow publish events were created even when the publish operation failed.
- Instance identifiers required for MiNiFi Java version 2.x were not created for flows established before EFM 2.x.
- There were compatibility issues with the agent deployer after the MiNiFi C++ 1.23.06 version.
- Remote Process Group validation errors were not refreshed correctly.
- There was potential for out-of-memory (OOM) errors during manifest refreshes and with large flows.
- Connection queue metrics were not visible with MiNiFi Java agent 2.x versions.

Known issues

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

Known issues in EFM 2.2.0.0 include:

- Browser back navigation does not work in parts of the EFM web app.
- EFM repository usage views do not show data or can be inaccurate.