

Cloudera Edge Management 1.4.0

Cloudera Edge Management Release Notes

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CLOUDERA

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What's new in Edge Flow Manager

Edge Flow Manager (EFM) is a solution that enables you to manage, control, and monitor agents that are deployed on the edge devices in IoT implementations. You can use these agents to collect real-time data originating from the devices to create and push actionable intelligence and insights to the place of data origin.

Edge Flow Manager 1.4.0 is a feature release that contains performance improvements, bug fixes, and new features including:

- Added agent management functionality.

The main new functionality in this release allows the user to have more visibility and control over the agents themselves. It provides detailed agent information view along with command execution support against the agents. For more information, see the *Managing agents in CEM* section.

- Elevated debug command functionality from technical preview to core feature set.

You can now issue a DEBUG command against an agent which after executing the command uploads a debug bundle with logs, agent properties, and flow configuration so that you can more easily investigate issues. For more information, see the *Managing agents in CEM* section.

- Added properties update command functionality.

With this command it is possible to update agent specific properties through EFM. The update results in agent restart so the new updated properties are picked up at the startup. For more information, see the *Managing agents in CEM* section.

- UI improvements on Monitoring/Dashboard and Edge Events views.
- Dropped support for MySQL 5.6, 5.7 and PostgreSQL 9.x and added support for PostgreSQL 13.
- Removed support for NiFi Registry integration.

NiFi Registry integration was originally supported for the following use cases:

- Designing flows outside of EFM
- Saving a backup copy of flows designed from EFM

However, both use cases are better supported without using NiFi Registry. Also, without using NiFi Registry, EFM gains the ability to import and export flows in many formats, which improves flow design portability. For restoring flows from backups, EFM database backup option offers a better experience compared to NiFi Registry backup option. Because, when reading from NiFi Registry to EFM, key metadata is lost and cannot be fully recovered. For this reason, in order to accelerate the EFM roadmap and offer you the best capabilities and experience, Cloudera deprecated in 1.3.0 and now removed the ability to write a copy of flows to NiFi Registry. Starting with EFM 1.3.0, Cloudera recommended that if you had enabled NiFi Registry integration, then disable it by setting the `efm.nifi.registry.enabled` property to false, in the `efm.properties` file, so that upgrades to future versions become more seamless.

For more information on bug fixes, see *Fixed issues*.

Related Information

[Managing agents in CEM](#)

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 Edge Flow Manager (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 within the [Cloudera support portal](#) for our Support team to assist you.

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

Software	Location
EFM tar file	https://archive.cloudera.com/p/CEM/centos7/1.x/updates/1.4.0.0/tars/efm/efm-1.4.0.0-125-bin.tar.gz
EFM zip file	https://archive.cloudera.com/p/CEM/centos7/1.x/updates/1.4.0.0/tars/efm/efm-1.4.0.0-125-bin.zip

Related Information

[System requirements for EFM](#)

Unsupported features

Some features exist within EFM 1.4.0, but Cloudera does not currently support these capabilities.

The technical preview or community driven features in EFM 1.4.0 includes:

- None



Note: As of today, EFM is not FIPS compliant. Support for FIPS compliant cryptographic libraries will be added in the future.

Fixed issues

Summary of fixed issues for this release.

Fixed issues in this release include:

- Manifest change detection was added, earlier change in manifest on agent side was not reflected in EFM.
- Flow re-validation during import added.
- Unassigned agent class is now available for all users not just for the ones that have permissions on it.
- Logging specific parameters (for example, roll configuration and size) can be controlled through application properties.
- Source/Destination processor name inconsistency corrected between NiFi Registry enabled and NiFi Registry disabled setup.
- EFM cluster configuration using hostname reliability issues addressed.
- Unused and conflicting transitive dependencies were removed.
- Removed incomplete COAP implementation from the code base.
- Get AgentManifest Permission issue corrected.
- Many additional small improvements and stability fixes.

Known issues

Summary of known issues for this release.

Known issues in this release include:

- MiNiFi Java GetFile processor ignores Ignore Hidden File property.
- EFM repository usage views do not show data or can be inaccurate.
- Browser back navigation does not work in parts of the EFM web app.
- New MiNiFi Java agents occasionally do not download the current flow for an agent class when connecting to EFM for the first time.

Workaround: Re-publish the flow for an agent class after new MiNiFi Java agents are added to it. This can be accomplished by making a minute change in the current flow, such as moving a processor on the canvas in the Flow Designer, and then by selecting **Actions Publish Flow...**

- Duplicate processor names in flow definitions cause publishing to be acknowledged incorrectly leading to an endless publish loop. This issue only affects MiNiFi C++ agents with versions 1.22.04 and 1.22.06. Other versions or the MiNiFi Java agents are not impacted.

Workaround: If the exact versions of MiNiFi C++ agents are needed, the issue can be mitigated by using unique processor names in the flow definitions. If that can not be avoided, please reach out to Cloudera for HOTFIX releases.