

Cloudera Edge Management 1.5.0

Cloudera Edge Management Release Notes

Date published: 2019-04-15

Date modified: 2023-02-15

CLOUDERA

<https://docs.cloudera.com/>

Legal Notice

© Cloudera Inc. 2024. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Unless otherwise noted, scripts and sample code are licensed under the Apache License, Version 2.0.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 (“ASLv2”), the Affero General Public License version 3 (AGPLv3), or other license terms. Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners.

Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER’S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

Contents

What's new in Edge Flow Manager.....	4
EFM download locations.....	5
Unsupported features.....	5
Fixed issues.....	5
Known issues.....	6

What's new in Edge Flow Manager

Edge Flow Manager (EFM) 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 1.5.0 is a feature release that contains new features, performance improvements, and bug fixes, including:

Manifest Refresh functionality

It is now possible to refresh the manifest behind an agent class. The manifest drives what kind of processors and services are available in the designer. Earlier if agents were upgraded to newer versions, existing flows in the flow designer did not reflect the new capabilities. With the manifest refresh functionality, you can refresh the manifest for existing flows. For more information, see [Refreshing the agent manifest for existing flows](#).

Automatic Agent cleanup

It is now possible to automatically clean up stale agents. So if an agent is decommissioned, it will not stay in the agent list as an offline agent forever. You can configure the timeout value globally and on agent class level as well. If timeout is not configured, the original behavior of never cleaning up missing agents is applied.

Related properties:

- `efm.monitor.agentCleanupAfterInactivityDuration=1d`
- `efm.monitor.agentCleanupAfterInactivityDurationForClass.[your\ class\ here]=6h`

Pushing Assets to Agents – S3 integration

This functionality is now generally available and can be used in production environments.

You can push assets to the agents originated from an S3 bucket (previously the asset had to be manually placed on each EFM node), so the agent can download any arbitrary asset needed for a processor. For example, you can push enhanced Machine Learning models to support decision making on the edge. For more information, see [Using Asset Push command](#).

Support for flow.json publishing

With this new functionality, EFM can serialize flows in JSON format, while maintaining backward compatibility. EFM can still serialize flows to YAML format as well depending on the supported formats of the agent.

The following endpoint has changed: `/flows/{id}` – model class Flow now has a list of flow content objects instead of flow content / flow format field.

If you have existing flows, you need to republish them so that the flow will be transformed to JSON format as well on the EFM side. This way new agents joining existing agent classes will be able to download in JSON format too.



Note: Support for flow.json is added for C++ agents from version 1.23.02. Implementation for Java agents will be available in a future release. If you use agent versions that do not support flow.json format, republish is not necessary.

Removal of support for legacy MiNiFi Java releases

Cloudera no longer supports Legacy MiNiFi Java versions 0.6.0.1.3.1.0 or lower. If you use a legacy version, you should upgrade to version 1.22.07 or higher. For more information, see [CEM component compatibility](#).

For more information on bug fixes, see [Fixed issues](#).

Related Information

[Using Asset Push Command](#)

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 on 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/ubuntu20/1.x/updates/1.5.0.0/tars/efm/efm-1.5.0.0-96-bin.tar.gz
EFM zip file	https://archive.cloudera.com/p/CEM/ubuntu20/1.x/updates/1.5.0.0/tars/efm/efm-1.5.0.0-96-bin.zip

Related Information

[System requirements for EFM](#)

Unsupported features

The following EFM 1.5.0 features are not supported by Cloudera.

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

Fixed issues

Review the list of issues that are resolved in EFM 1.5.0.

Fixed issues in this release include:

- Addressed Spring Security and Apache Commons CVEs
- Added support for showing online agent count on Dashboard
- Removed Jersey and javax.ws.rs dependencies in favor of Spring REST
- Removed deprecated endpoints
 - /api/transfer (POST)
 - /api/flows/{flowId}/content (GET)
- Implemented many additional small improvements and stability fixes

Known issues

Review the list of known issues in EFM 1.5.0.

Known issues in this release 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.