

Cloudera Edge Management 1.0.0

Cloudera Edge Management Release Notes

Date published: 2019-04-15

Date modified: 2019-04-15

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 Cloudera Edge Management.....	4
Unsupported Features.....	4
Known Issues.....	4

What's new in Cloudera Edge Management

Cloudera Edge Management is an edge management solution made up of edge agents and an edge management hub. It manages, controls and monitors edge agents to collect data from edge devices and push intelligence back to the edge.

CEM consists of two components:

- Apache MiNiFi is a light-weight edge agent that implements the core features of Apache NiFi, focusing on data collection & processing at the edge.
- Edge Flow Manager (EFM) is an agent management hub that supports a graphical flow-based programming model to develop, deploy & monitor edge flows on thousands of MiNiFi agents.

CEM provides three main capabilities to the edge flow lifecycle:

Flow Authorship: Edge Flow Manager addresses the challenge of developing IoT applications by offering a code free drag and drop development environment. This development environment offers a NiFi like experience for capturing, filtering, transforming, and transferring data from edge agents to upstream enterprise systems like CDH.

Flow Deployment: Managing the deployment of IoT applications has been an industry challenge. Edge Flow Manager alleviates this challenge by offering a simple, yet powerful, model for deploying flows to agents. Agents registered with Edge Flow Manager are notified when a new or modified flow is available. The agents will access the flow and apply it locally.

Flow Monitoring: Agents in CEM send periodic heartbeats to their Edge Flow Manager instance. The heartbeat contains information about the deployment and runtime metrics. Edge Flow Manager stores, analyzes, and renders these heartbeats to end users. The heartbeats allows operators to visualize details such as flow throughput, connection depths, processors running, and overall agent health.

Unsupported Features

Some features exist within CEM 1.0.0, but Cloudera does not currently support these capabilities.

There are no technical preview or community driven features in CEM 1.0.0.

Known Issues

Summary of known issues for this release.

CEM-1271: Recent versions of browsers, including Chrome and Firefox, blocks HTTP, HTTPS, and FTP access to TCP port 10080 to prevent the ports from being abused in NAT Slipstreaming 2.0 attacks.

Workaround: In case of an error message saying could not connect to server in the browser, you need to change the port being used by EFM. You can set a different value for the `efm.server.port` property in the `efm.properties` file. You need to restart EFM for the change to be effective. The change also needs to be reflected on the agents to ensure proper communication.