Cloudera Edge Management 1.0.0

Cloudera Edge Management Release Notes

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CLOUDERA

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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.