

Cloudera Edge Management 1.2.2

Cloudera Edge Management Release Notes

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CLOUDERA

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What's new in Cloudera Edge Management

Cloudera Edge Management (CEM) 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.

Cloudera Edge Management 1.2.2 is a maintenance release that contains performance improvements, bug fixes, and new features including:

- NiFi Registry is upgraded to 0.7.0
- Improvements to the EFM REST APIs for monitoring MiNiFi agents.
 - GET /efm/api/monitor/... endpoints now return a list of missing agent ids
 - GET /efm/api/agents endpoints now include up-to-date lastSeenTimestamp
 - GET /efm/api/agents endpoints now allow filtering by agent class, agent state, manifest id, and flowId
 - See Swagger UI at /efm/swagger/ for full REST API Documentation
- Stability improvements when running multiple EFM instances as a cluster.
- Performance improvements for EFM in processing heartbeats from many agents.
- Bug fixes in the MiNiFi Java MSI and EFM.

For more information, see *Fixed issues*.

Component support

Learn about the components included in CEM 1.2.2.

CEM 1.2.2 includes the following components:

- EFM 1.2.2
- MiNiFi Java Agent 0.6.0
- MiNiFi C++ 0.7.0
- NiFi Registry 0.7.0

MiNiFi C++ agent updates

MiNiFi C++ agents has periodic software updates made available independent of the CEM releases.

This section lists major features and updates for the independent CEM MiNiFi C++ Agent release.

August 30, 2021

CEM MiNiFi C++ Agent - 1.21.08 release includes:

- AppendHostInfo is now supported on Windows
- Added AttributesToJson processor
- Added Funnels
- Common binary for all unix systems

July 23, 2021

CEM MiNiFi C++ Agent - 1.21.06 release includes:

- Agent's configuration fingerprinting. You can enable a property in the agent's configuration so that a fingerprint of its configuration and flow definition is added to the heartbeat. It can be used to detect local changes made to a single agent compared to other agents belonging to the same class.
- Repository encryption. You can enable encryption of the repositories used to persist the data being processed by the agents.
- Support dropped for Ubuntu 16 and Debian 9.
- Support added for Ubuntu 20 and Debian 10.

June 2, 2021

CEM MiNiFi C++ Agent - 1.21.04 release includes:

- Added PerformanceDataMonitor processor
- Added ConsumeJournald processor
- Added resource consumption data to heartbeat
- Added 32 bit version of Windows installer
- Fixed CVE-2021-33191

April 9, 2021

CEM MiNiFi C++ Agent - 1.21.03 release includes:

- Fix for PublishKafka processor to properly support expression language
- Rewrite and performance improvements for the SQL processors

March 8, 2021

CEM MiNiFi C++ Agent - 1.21.02 release includes:

- Fix for PublishKafka processor
- Outputting JSON data on one line in ConsumeWindowsEventLog processor

February 15, 2021

CEM MiNiFi C++ Agent - 1.21.01 release includes:

- Support for JSON output in the Consume Windows Even Log processor
- Full Expression Language support on Windows
- Full S3 support (List, Fetch, Get, Put)

December 16, 2020

CEM MiNiFi C++ Agent - 1.20.11 release includes:

- Optional integration with the Windows Certificate store to retrieve certificates to be used for the agent to EFM communication over HTTPS

For more information, see *Integrating with the Windows certificate store*.

- Optional capability to encrypt the flow definition when persisted on disk on the agent's host

For more information, see *Encrypt sensitive data*.

November 16, 2020

CEM MiNiFi C++ Agent - 1.20.10 release includes:

- PutS3 processor to support sending data into AWS S3
- Improvements on the ListenHTTP processor
- Adding SNI information into raw TCP information during TLS handshake

- Adding support for FlowFile v3 format in MergeContent processor to keep payload and flow file attributes when sending data using InvokeHTTP
- Adding support for :format() expression language function on Windows hosts

October 14, 2020

CEM MiNiFi C++ Agent - 1.20.09 release includes:

- The content repository now uses an implementation based on RocksDB
- Fix on the security events caused by the agent when running on Windows
- Improvement on the memory footprint of the agent
- You can encrypt the sensitive properties of the MiNiFi C++ agent's configuration

Related Information

[Integrating with the Windows certificate store](#)

[Encrypt sensitive data](#)

MiNiFi C++ download locations

Identify the CEM MiNiFi C++ repository location for your operating system and operational objectives.



Note: You must have credentials to download CEM 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 MiNiFi C++ agents, see *System requirements for CEM*.

For details about how to obtain the Cloudera Edge Management (CEM) software bits, see *Obtaining the CEM software*.

August 30, 2021 - CEM MiNiFi C++ Agent - 1.21.08

Operating System	Location
All Unix	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-centos-1.21.08-b32-bin.tar.gz
Windows x86	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.08-b32-x86.msi
Windows x64	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.08-b32-x64.msi

July 23, 2021 - CEM MiNiFi C++ Agent - 1.21.06

Operating System	Location
Ubuntu 18	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-1.21.06-bin-bionic-b25.tar.gz
Ubuntu 20	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-1.21.06-bin-focal-b25.tar.gz
Debian 10	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-1.21.06-bin-debian-b25.tar.gz

Operating System	Location
CentOS/RHEL 7 and 8	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-1.21.06-bin-centos-b25.tar.gz
Windows x86	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.06-b25-x86.msi
Windows x64	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.06-b25-x64.msi

June 2, 2021 - CEM MiNiFi C++ Agent - 1.21.04

Operating System	Location
Ubuntu 16	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-xenial-1.21.04-32-bin.tar.gz
Ubuntu 18	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-bionic-1.21.04-32-bin.tar.gz
Debian 9	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-debian-1.21.04-32-bin.tar.gz
CentOS/RHEL 7	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-centos-1.21.04-32-bin.tar.gz
Windows x86	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.04.0-32-x86.msi
Windows x64	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.04.0-32-x64.msi

April 9, 2021 - CEM MiNiFi C++ Agent - 1.21.03

Operating System	Location
Ubuntu 16	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-xenial-1.21.03-16-bin.tar.gz
Ubuntu 18	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-bionic-1.21.03-16-bin.tar.gz
Debian 9	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-debian-1.21.03-16-bin.tar.gz
CentOS/RHEL 7	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-centos-1.21.03-16-bin.tar.gz
Windows	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.03.0-16.msi

March 8, 2021 - CEM MiNiFi C++ Agent - 1.21.02

Operating System	Location
Ubuntu 16	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-xenial-1.21.02-18-bin.tar.gz
Ubuntu 18	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-bionic-1.21.02-18-bin.tar.gz
Debian 9	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-debian-1.21.02-18-bin.tar.gz
CentOS/RHEL 7	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-centos-1.21.02-18-bin.tar.gz
Windows	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.02.0-18.msi

February 15, 2021 - CEM MiNiFi C++ Agent - 1.21.01

Operating System	Location
Ubuntu 16	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-xenial-1.21.01-19-bin.tar.gz
Ubuntu 18	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-bionic-1.21.01-19-bin.tar.gz
Debian 9	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-debian-1.21.01-19-bin.tar.gz
CentOS/RHEL 7	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-centos-1.21.01-19-bin.tar.gz
Windows	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.01.0-17.msi

December 16, 2020 - CEM MiNiFi C++ Agent - 1.20.11

Operating System	Location
Ubuntu 16	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-xenial-1.20.11-11-bin.tar.gz
Ubuntu 18	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-bionic-1.20.11-11-bin.tar.gz
Debian 9	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-debian-1.20.11-11-bin.tar.gz
CentOS/RHEL 7	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-centos-1.20.11-11-bin.tar.gz
Windows	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.20.11.0-11.msi

November 16, 2020 - CEM MiNiFi C++ Agent - 1.20.10

Operating System	Location
Ubuntu 16	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-xenial-1.20.10-13-bin.tar.gz
Ubuntu 18	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-bionic-1.20.10-13-bin.tar.gz
Debian 9	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-debian-1.20.10-13-bin.tar.gz
CentOS/RHEL 7	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-centos-1.20.10-13-bin.tar.gz
Windows	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.20.10.0-13.msi

October 14, 2020 - CEM MiNiFi C++ Agent - 1.20.09

Operating System	Location
Ubuntu 16	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-xenial-1.20.09-4-bin.tar.gz
Ubuntu 18	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-bionic-1.20.09-4-bin.tar.gz
Debian 9	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-debian-1.20.09-4-bin.tar.gz

Operating System	Location
CentOS/RHEL 7	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-centos-1.20.09-4-bin.tar.gz
Windows	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.20.09.0-4.msi

Related Information

[System requirements](#)

[Obtaining the CEM software](#)

Unsupported features

Some features exist within CEM 1.2.2, but Cloudera does not currently support these capabilities.

The technical preview or community driven features in CEM 1.2.2 includes:

Component	Feature
EFM Server, MiNiFi Agents	Using the CoAP protocol for MiNiFi agent and EFM server communication.

Fixed issues

Summary of fixed issues for this release.

Fixed issues in this release include:

- Fixed an issue displaying inaccurate EFM connection queue metrics for single-node deployments.
- Fixed EFM to redirect to Knox SSO login page when the user has an expired token.
- Fixed EFM and NiFi Registry TLS integration to allow international characters in the certificate DN (requires upgrading NiFi Registry as well).
- Fixed MiNiFi Java MSI to support Java path with white spaces.

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.
- 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.