Cloudera Edge Management 1.3.1

Cloudera Edge Management Release Notes

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Contents

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.

Note: This new EFM release as well as prior EFM releases are not including any log4j dependencies and, therefore, EFM is not vulnerable to recently announced CVEs.

Cloudera Edge Management 1.3.1 is a feature release that contains performance improvements, bug fixes, and new features including:

- As a Technical Preview the DEBUG command capability is introduced. 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 issues can be more easily investigated. This functionality will be evolved in the upcoming 1.4.0 release.

  For more information, see *Using agent debug command*.
- Support is added for raw heartbeat submission to Apache Kafka from EFM. In the earlier release, only the deserialized heartbeats were sent to Apache Kafka so fields that EFM was not aware of were omitted. Now the raw heartbeat is sent to Apache Kafka.
- The Kafka message key now contains the agent identifier.
- Support is added for SASL_SSL integration of Apache Kafka with EFM. In the earlier release, Kafka integration was supported but only through 2-way-SSL. Now authentication is possible through SASL_SSL too using username and password.
- From this release EFM supports the separation of C2 and UI ports. There could be use cases when different network level rules and restrictions would be applied to the UI (users) and the C2 (agents) traffic. This new enhancement supports this.

  For more information, see *Using separate ports in EFM*.
- Support for sensitive property encryption is added. Now it is possible to encrypt one or more properties so that EFM can decrypt those at startup using the provided key. Small utility script is included to help the encryption.

  For more information, see *Encrypt sensitive properties*.
- Enhancements are made around observability, namely the health and info endpoints are enhanced along with additional metrics exposed.
- Starting with EFM 1.3.0, support for NiFi Registry integration is deprecated, and the NiFi Registry integration feature will be removed from the future versions of EFM.

  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 is deprecating and eventually removing the ability to write a copy of flows to NiFi Registry. Starting with EFM 1.3.0, Cloudera recommends that if you have 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

Using agent debug command

Using separate ports in EFM
Encrypt sensitive properties

Component support

Learn about the components included in CEM 1.3.1.

CEM 1.3.1 includes the following components:

- EFM 1.0.0.1.3.1.0-68
- MiNiFi Java Agent 0.6.0.1.3.1.0-68
- MiNiFi C++

  For information about version, see *MiNiFi C++ agent updates*.

Related Information

MiNiFi C++ agent updates

CEM download locations

Identify the Edge Flow Manager (EFM) and MiNiFi Java agent repository locations for your operating system and operational objectives.

Note: You must have credentials to download Cloudera Edge Management (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 CEM, see *Support Matrix*.

Software	Location
EFM tar file	https://archive.cloudera.com/p/CEM/centos7/1.x/updates/1.3.1.0/tars/efm/efm-1.0.0.1.3.1.0-68-bin.tar.gz
EFM zip file	https://archive.cloudera.com/p/CEM/centos7/1.x/updates/1.3.1.0/tars/efm/efm-1.0.0.1.3.1.0-68-bin.zip
MiNiFi Java tar file	https://archive.cloudera.com/p/CEM/centos7/1.x/updates/1.3.1.0/tars/minifi/minifi-0.6.0.1.3.1.0-68-bin.tar.gz
MiNiFi Java zip file	https://archive.cloudera.com/p/CEM/centos7/1.x/updates/1.3.1.0/tars/minifi/minifi-0.6.0.1.3.1.0-68-bin.zip
MiNiFi Java MSI file	https://archive.cloudera.com/p/CEM/windows/1.x/updates/1.3.1.0/minifi-1.3.1.0-68.msi
MiNiFi Toolkit tar file	https://archive.cloudera.com/p/CEM/centos7/1.x/updates/1.3.1.0/tars/minifi/minifi-toolkit-0.6.0.1.3.1.0-68-bin.tar.gz
MiNiFi Toolkit zip file	https://archive.cloudera.com/p/CEM/centos7/1.x/updates/1.3.1.0/tars/minifi/minifi-toolkit-0.6.0.1.3.1.0-68-bin.zip

Related Information

Support Matrix

MiNiFi C++ agent updates

MiNiFi C++ agents have 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.

May 4, 2022

CEM MiNiFi C++ Agent - 1.22.04 release includes:

- Added support for the following processors:
  - ListFile (both Linux and Windows)
  - FetchFile (both Linux and Windows)
  - ProcFsMonitor (Linux only)
  - PutGCSObject (both Linux and Windows)
- Improved the stability of ListenSyslog, and added support for running it on Windows.
- When using the docker image, MiNiFi logs are now available from docker logs directly.
- Added support for updating properties through EFM (CEM 1.4+).
- The following issues are fixed:
  - MINIFICPP-1788: MergeContent now flushes old bins on expiration even without additional inputs.
  - MINIFICPP-1766: Fixed the bug that caused rollbacks when working with empty flowfiles.
  - MINIFICPP-1802: Removed unnecessary AWS calls on startup.
  - MINIFICPP-1773: Fixed the crash that could occur when using Provenance Repository in properties.
  - MINIFICPP-1675: Fixed the possible crash that could occur with large regex inputs.
- Other small improvements and bug fixes.

March 22, 2022

CEM MiNiFi C++ Agent - 1.22.03 release includes:

- TailFile is now capable of collecting logs from Kubernetes
- Support added for KubernetesControllerService
- Support added for FetchAzureBlobStorage processor
- DefragmentText is now capable of handling multiple inputs simultaneously

February 4, 2022

CEM MiNiFi C++ Agent - 1.22.01 release includes:

- Added support for the following processors:
  - DeleteAzureBlobStorage
  - DeleteAzureDataLakeStorage
  - FetchAzureDataLakeStorage
  - ListAzureDataLakeStorage
  - PutSplunkHTTP
  - QuerySplunkIndexingStatus
  - PutUDP
- Added SASL/PLAIN mechanism support to Kafka processors
- Fixed MINIFICPP-1692 - TLSSocket hangs when no more data is available

November 12, 2021

CEM MiNiFi C++ Agent - 1.21.10 release includes:

- Dynamic loading of extensions

  Extensions are loaded at startup. The MSI installer also provides options to select the ones you want to use.
- Added ReplaceText processor
- Added RouteText processor
- Added DefragementText processor
- Improved Azure credential handling
- The release is available in docker image format as well

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

Install the C++ agent on Windows using the MSI
Using DefragmentText processor
Download the MiNiFi C++ agent image
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*.

May 4, 2022 - CEM MiNiFi C++ Agent - 1.22.04

Operating System	Location
All Unix	https://archive.cloudera.com/p/CEM/1.22.04/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-1.22.04-bin-centos-b32.tar.gz
Windows x86	https://archive.cloudera.com/p/CEM/1.22.04/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.22.04-b31-x86.msi
Windows x64	https://archive.cloudera.com/p/CEM/1.22.04/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.22.04-b31-x64.msi

March 22, 2022 - CEM MiNiFi C++ Agent - 1.22.03

Operating System	Location
All Unix	https://archive.cloudera.com/p/CEM/1.22.03/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-1.22.03-bin-centos-b24.tar.gz
Windows x86	https://archive.cloudera.com/p/CEM/1.22.03/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.22.03-b24-x86.msi
Windows x64	https://archive.cloudera.com/p/CEM/1.22.03/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.22.03-b24-x64.msi

February 4, 2022 - CEM MiNiFi C++ Agent - 1.22.01

Operating System	Location
All Unix	https://archive.cloudera.com/p/CEM/1.22.01/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-1.22.01-bin-centos-b31.tar.gz
Windows x86	https://archive.cloudera.com/p/CEM/1.22.01/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.22.01-b31-x86.msi
Windows x64	https://archive.cloudera.com/p/CEM/1.22.01/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.22.01-b31-x64.msi

November 12, 2021 - CEM MiNiFi C++ Agent - 1.21.10

Operating System	Location
All Unix	https://archive.cloudera.com/p/CEM/ubuntu18/apt/tars/nifi-minifi-cpp/nifi-minifi-cpp-1.21.10-bin-centos-b24.tar.gz
Windows x86	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.10-b24-x86.msi
Windows x64	https://archive.cloudera.com/p/CEM/windows/msi/nifi-minifi-cpp/nifi-minifi-cpp-1.21.10-b24-x64.msi

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
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

Operating System	Location
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
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 for CEM

Unsupported features

Some features exist within CEM 1.3.1, but Cloudera does not currently support these capabilities.

The technical preview or community driven features in CEM 1.3.1 includes:

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

Note: CoAP will be removed from EFM codebase in CEM 1.4.0 release.

Note: As of today, EFM and MiNiFi agents (both Java and C++) are 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:

- Fixed the issue with processor's null properties which were not omitted in Config Schema (YAML definition) when NiFi Registry was turned off causing issues on agent side and inconsistency in behavior between cluster setup with and without NiFi Registry.
- Filtering issue on Events tab is addressed.
- MiNiFi Java thread size is reset to 1 when new flow is published.
- EFM Request Logging Filter setting through property.
- Component auto terminated status validation on save.

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... .