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What's New in Illumio Flowlink 2.0.0

What's New in Flowlink 2.0.0

Support for Azure Event Hub (managed Kafka)



NOTE

Currently, this version of Flowlink is available to only a limited number of organizations.

Flowlink 2.0.0 adds support for streaming flows to Azure Event Hub, enabling the PCE to ingest network flow data at higher throughput while unifying device identity and flow visibility within a single control plane. For details, see `pce_kafka` in [Flowlink Key-Value Parameters](#).

Unique Flowlink `instance_id`

Flowlink now generates and persists a unique instance ID to improve traceability and diagnostics. This ID is included in Kafka flow messages and is visible in the Flowlink status CLI output.

- A persistent UUID is created for each Flowlink installation and stored on the device.
- Flowlink now includes this `instance_id` in proto messages sent to Kafka.
- The Flowlink status CLI command displays the instance ID for easy identification and troubleshooting.

Illumio Flowlink Release Notes for Release 1.4.0

December 2024

Product Version

Flowlink Version: 1.4.0

Compatible PCE Version: PCE 19.3.0 and later releases

Standard versus LTS Releases

For information about Standard versus Long Term Support (LTS) releases, see [Versions and Compatibility](#) in the Illumio Support portal (log in required).

Illumio Core release numbering uses the following format: “a.b.c-d+e”.

- “a.b”: Standard or LTS release number, for example, “2.2”
- “.c”: Maintenance release number, for example, “.1”
- “-d”: Optional descriptor for pre-release versions, for example, “preview2”

New Features in Illumio Flowlink 1.4.0

The following new features were added in Illumio Flowlink 1.4.0.

- **Support for FIPS compliance on RHEL 9**

Beginning with this release, Flowlink now supports FIPS compliance on RHEL 9. For more information, see [FIPS Compliance for Flowlink](#).

- **Increased buffer size**

Flowlink buffer size is increased to 65kb. This was done to address an issue where Flowlink failed to process large UDP packets.

- **Support for ingesting multiple flow types**

Beginning with this release, the Flowlink text flow collector supports flows with any IP protocol number, not just UDP, TCP and ICMP.

Resolved and Known Issues in Flowlink 1.4.0

Resolved Issue

Flowlink became non-responsive (E-114431)

A parsing issue with the IPFIX packet caused Flowlink 1.3.0 to become non-responsive, requiring a manual restart. This issue is fixed with this release.

Known Issue

No Automatic Restart Following Reboot (E-115146)

Flowlink is not installed as a service, nor does it support a High Availability (HA) configuration. As such, it doesn't restart automatically if the host fails or is rebooted. In those cases, you need to restart Flowlink manually.

Illumio Flowlink Release Notes 1.3.0

Product Version

Flowlink Version: 1.3.0

Compatible PCE Version: PCE 19.3.0 and later releases

Standard versus LTS Releases

For information about Standard versus Long Term Support (LTS) releases, see [Versions and Compatibility](#) in the Illumio Support portal (log in required).

Illumio Core release numbering uses the following format: “a.b.c-d+e”.

- “a.b”: Standard or LTS release number, for example, “2.2”
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New Feature in Flowlink 1.3.0

Support for HTTP/HTTPS Proxy

Beginning with this release, Flowlink now supports HTTP/HTTPS proxy. When Flowlink is running behind a proxy or in a corporate network and the PCE is in the cloud, Flowlink can now access the PCE via HTTP/HTTPS proxy configurations.

The following configuration parameter is available to define an HTTP/HTTPS proxy:

```
proxy_config:  
  https_proxy: <HTTPS_PROXY>  
  http_proxy: {} <HTTPS_PROXY>{ }
```

See the following example of Flowlink YAML configuration file:

```
proxy_config:  
  https_proxy: http://proxy.corporate.com:3128  
  http_proxy: http://proxy.corporate.com:3128
```

In the above example, the HTTP/HTTPS proxy is running on FQDN `proxy.corporate.com`{`{ port: 3128}`}.

Resolved Issue in Flowlink 1.3.0

The following security issue was resolved in this release:

go-lang upgraded to 1.19.11 (E-107998)

The go-lang package was upgraded to 1.19.11 to address CVE-2023-29406.

Illumio Flowlink Release Notes 1.2

Welcome

These release notes describe the enhancements, resolved, and known issues for Illumio Flowlink 1.2.x releases.

Document Last Revised: August 2023

Document ID: 28000-100-1.2.3

Product Version

Flowlink Version: 1.2.3

Compatible PCE Version: 23.3.0 (Standard) and earlier.

Standard versus LTS Releases

For information about Standard versus Long Term Support (LTS) releases, see [Versions and Compatibility](#) in the Illumio Support portal (log in required).

Illumio Core release numbering uses the following format: “a.b.c-d+e”.

- “a.b”: Standard or LTS release number, for example, “2.2”
- “.c”: Maintenance release number, for example, “.1”
- “-d”: Optional descriptor for pre-release versions, for example, “preview2”

What’s New in Flowlink Release 1.2.3

This release provides no new features. Illumio made some changes for security purposes (see Security Information below).

Security Information

go-lang upgraded to 1.19.11 (E-107998)

The go-lang package was upgraded to 1.19.11 to address:

- CVE-2023-29406

What's New in Flowlink Release 1.2.2

This release provides no new features. Illumio made some changes for security purposes (see Security Information below).

Security Information

go-lang upgraded to 1.19.0 (E-106453)

The go-lang package was upgraded to 1.19.10 to address:

- CVE-2023-29405
- CVE-2023-29404
- CVE-2023-29403
- CVE-2023-29402
- CVE-2023-29400
- CVE-2023-24540
- CVE-2023-24539

What's New in Flowlink Release 1.2.1

This release provides no new features. Illumio made some changes for security purposes (see Security Information below).

Security Information

go-lang upgraded to 1.19.8 (E-104330)

go-lang has been upgraded to 1.19.8 to address:

- CVE-2022-41725
- CVE-2022-41724
- CVE-2022-41723
- CVE-2022-41717
- CVE-2023-24538
- CVE-2023-24537
- CVE-2023-24536
- CVE-2023-24534
- CVE-2023-24532

What's New in Flowlink Release 1.2.0

FIPS Compliance

Support for Federal Information Processing Standard Publication (FIPS). FIPS (FIPS PUB) 140-2 is a U.S. government computer security standard used to approve cryptographic modules.

Resolved Issue in Flowlink 1.2.0

Flowlink crashed when pushing NetFlow v9-formatted traffic flow data from Fortinet devices (E-95072)

When attempting to push NetFlow v9-formatted traffic flow data from Fortinet devices, Flowlink stopped processing data and the error message "unexpected EOF" appeared. The issue was caused by incorrect handling of padding bytes in the NetFlow v9 template record. This issue is resolved.

Illumio Flowlink Release Notes 1.1.2

Welcome

These release notes describe the enhancements, resolved, and known issues for the Illumio Flowlink 1.1.x release.

Document Last Revised: April 2021

Document ID: 28000-100-1.1.2

Product Version

Flowlink Version: 1.1.2+H2

Compatible PCE Version: 21.1.0 (Standard), 20.2.0 (Standard), 20.1.0 (Standard), 19.3.x (LTS)

Standard versus LTS Releases

For information about Standard versus Long Term Support (LTS) releases, see [Versions and Compatibility](#) in the Illumio Support portal (log in required).

Illumio Core release numbering uses the following format: “a.b.c-d+e”.

- “a.b”: Standard or LTS release number, for example, “2.2”
- “.c”: Maintenance release number, for example, “.1”
- “-d”: Optional descriptor for pre-release versions, for example, “preview2”

Resolved Issue in Flowlink 1.1.2+H2

- **Flowlink encountered a fatal error (E-77177)**
Further investigation of this issue uncovered that Flowlink could still encounter the fatal error. While processing reported IPs in sFlow data, Flowlink could experience a race condition due to simultaneous update and

read operations of the `reportedIps` table. This issue is resolved. The race condition no longer occurs which caused Flowlink to stop responding and close.

Resolved Issues in Flowlink 1.1.2+H1

- **Flowlink printed error messages when parsing sFlow data (E-77019)**

When parsing sFlow data, Flowlink continuously wrote the following errors to the `flowlink.log`, causing the log to fill:

```
2021-03-16T22:21:10.038051-07:00 Error: unexpected EOF
2021-03-16T22:21:10.038120-07:00 Line: /usr/local/bin/
flowlink/sflow_collector.go:742
2021-03-16T22:21:10.052053-07:00 Error: unexpected EOF
2021-03-16T22:21:10.052102-07:00 Line: /usr/local/bin/
flowlink/sflow_collector.go:750
2021-03-16T22:21:10.052053-07:00 Error: unexpected EOF
2021-03-16T22:21:10.052102-07:00 Line: /usr/local/bin/illumio/
flowlink/sflow_collector.go:758
```

This issue is resolved. Flowlink no longer continuously writes these errors to the `flowlink.log`.

- **Flowlink encountered a fatal error (E-77177)**

While processing reported IPs in sFlow data, Flowlink encountered the following fatal error:

```
fatal error: concurrent map read and map write
```

The fatal error caused Flowlink to stop responding and close. This issue is resolved. Flowlink is no longer affected by this fatal error, which caused it to stop responding and close.

Enhancement in Flowlink 1.1.2

Newly Discovered IP Addresses Displayed

Previously, you did not know which unmanaged workloads you may need to create because you did not know which IP addresses Flowlink was reporting to the PCE. From the Flowlink 1.1.2 release onwards, every time Flowlink sends flow data to the PCE, it reports the newly discovered IP addresses in its log.

Resolved Issue in Flowlink 1.1.2

- **Flowlink was storing zero byte data file and not sending the data** (E-70217)

Flowlink was storing a zero byte data file. It was not sending the data with a response code 403 from the PCE. This issue is resolved and a zero length traffic flow file is not created in the data directory.

Resolved Issue in Flowlink 1.1.1+H2

- **Flowlink time format incompatibility with IPFix on NetScaler** (E-70139)
Flowlink was incompatible with the time format used by IPFix on NetScaler, which led to traffic processing errors on the PCE. This issue is resolved.

Resolved Issues in Flowlink 1.1.1+H1

- **Compatibility issues with NetFlow V9 and V10/IPFix formats** (E-69173)
NetFlow V9 and V10/IPFix formats failed to handle timestamps information in the 150-156 fields types correctly and that caused Flowlink to crash . This issue is resolved.
- **Flowlink data not displayed in Explorer** (E-69016)
Due to incorrect (future) timestamps being assigned, data flows were not being displayed in Explorer. This issue only affected flows generated by NetFlow V5 and V7 and is resolved.

Resolved Issue in Flowlink 1.1.1

- **Unable to install Flowlink on RHEL 6.10** (E-68015)
Installing the Flowlink RPM on RHEL 6.10 would fail and display an error. This issue is resolved and Flowlink can be successfully installed.

Resolved Issue in Flowlink 1.1.0+H1

- **sFlow traffic not displayed in Illumination** (E-65899)
The Flowlink application relies on sFlow to provide network traffic flow data for Illumination. Flowlink received sFlow events that it did not handle correctly and caused the traffic handler to crash. This issue is resolved and sFlow traffic is now visible in Illumination.