Illumio Core®
Compatible versions: 22.1.1, 21.5.21, 21.5.10
Kubelink
Version: 2.1.1

Release Notes

Contents

Welcome

These release notes describe the enhancements, resolved, and known issues for Illumio Kubelink 2.1.0 and earlier releases.

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Product Version

Kubelink Version: 2.1.1
Compatible Core PCE Versions: 22.1.1, 21.5.21, 21.5.10

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).

Release Types and Numbering

Illumio Core release numbering uses the following format: "a.b.c-d"

- "a.b": Standard or LTS release number, for example "2.0"
- ".c": Maintenance release number, for example ".1"
- "-d": Optional descriptor for pre-release versions, for example "preview2"

Resolved Issue in Kubelink 2.1.1

- **Kubelink 2.1.0 could stop functioning and exit** (E-89131)
  Kubelink 2.1.0 could stop functioning and exit when pods backing any Kubernetes service changed. Pods changing is a common event and, therefore, caused Kubelink 2.1.0 to be unusable. This issue is resolved in Kubelink 2.1.1. Common changes to pods no longer cause Kubelink to stop functioning and exit.

Updates for Kubelink 2.1.0

What's New in This Release

Kubelink 2.1.0 has the following new features:

- Kubelink now reports the rate of service and pod change events to the PCE. These metrics are based on a one-hour sliding window. The PCE emits these metrics to its event stream. You can use the standard Illumio events tools to view and analyze these new Kubelink reported service and pod events.
  If the rate of change events is greater than 50 pod changes per hour or 10 service changes per hour, the event are emitted at **WARN** severity.
- Illumio updated the version of the Kubernetes API used by Kubelink.
  From:
  rbac.authorization.k8s.io/v1beta1
  To:
  rbac.authorization.k8s.io/v1

Resolved Issue in Kubelink 2.1.0

- **Container clusters showed out of sync on PCE when using Kubelink** (E-83490)
  When a container cluster had high usage of cluster resources, Kubelink could show out of sync with the PCE. This issue is resolved. In this release, Kubelink handles high usage of cluster resources so that it doesn't appear out of sync with the PCE.

Resolved Issues in Kubelink 2.0.2

- **Changes to namespaces or nodes weren't reported to the PCE** (E-85389, E-85048)
  Kubelink could lose it watch on some resources, such as namespaces and nodes, from the the Kubernetes API server. When this happened, any changes to those resources in the container cluster were not properly reported to the PCE. This issue is resolved. Kubelink no longer loses watch on resources, thereby causing changes not to appear in the PCE.

Resolved Issues in Kubelink 2.0.1

- **Rapid container events could lead to partial service updates on the PCE** (E-83056)
  During a rapid sequence of container service start/stop events, Kubelink could include

recently added services while processing deletion notices and reporting the changes to the PCE. This issue caused the PCE to create empty virtual services. Normally, Kubelink recovers quickly and reports the correct state to the PCE. However, in certain cases, this issue could trigger 500 HTTP errors in the PCE. This issue is resolved. The PCE now handles rapid container events correctly.

- **Kubelink could stop responding during transient PCE and Kubernetes errors** (E-81869) When Kubelink received a 500 HTTP error from the PCE or Kubernetes API, it could stop responding rather than recovering and retrying the operation. This issue is resolved. When receiving a 500 HTTP error from the PCE or Kubernetes API, Kubelink backs off and retries the operation before restarting. This behavior allows Kubelink to recover from transient availability issues without restarting.

Security Information for Kubelink

For information about security issues, security advisories, and other security guidance pertaining to this release, see Illumio's Knowledge Base in Illumio's Support portal.

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