



Illumio[®] Core for Kubernetes

Version 4.1.0

PCE Versions: 22.5.0 and later

Release Notes

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Contents

Welcome.....	3
What's New in This Release	3
Product Version	4
Updates for Core for Kubernetes 4.1.0	4
C-VEN.....	4
Resolved Issues	4
Security Information for Core for Kubernetes 4.1.0.....	5
Base Image Upgraded	5

Welcome

These release notes describe the resolved issues and related information for the 4.1.0 release of Illumio Core for Kubernetes, formerly known as Illumio Containerized VEN, or C-VEN. Illumio Core for Kubernetes also includes the related required component, Kubelink. Because of this heritage, many references to this product as "C-VEN" are still used throughout the documentation.

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What's New in This Release

The following are new and changed items in this release from the previous releases of C-VEN and Kubelink:

- **New Kubelink 3.2.1 and C-VEN 22.5.13**

This Kubernetes 4.1.0 release includes an upgraded Kubelink component, version 3.2.1, and an upgraded C-VEN component, version 22.5.13. Note that C-VEN 22.5.13 requires PCE version 22.5.0 or later.

- **Support for Flat Network Configurations**

Kubernetes CNIs that use a flat network configuration, such as Azure CNI for Azure AKS and AWS VPC CNI for AWS EKS, are supported. Specify a flat network type when installing with Helm Chart parameter `networkType`, which can be also specified in the `illumio-values.yaml` file. This support requires PCE 23.1 and later.

- **Enhancements to Container Workload Settings**

The PCE Console now allows configuring container workloads and workload profiles with Enforcement status. Improvements have also been made to the UI for changing, editing, and removing labels and label types to one or multiple namespaces.

- **Log Entry Enhancements**

Log entries (accessed with `kubectl logs`) have been improved by providing timestamps to all log lines, along with a log level.

Product Version

Compatible PCE Versions: 22.5.0 and later releases

Current Illumio Core for Kubernetes Version: 4.1.0, which includes:

- C-VEN version: 22.5.13
- Kubelink version: 3.2.1
- Helm Chart version: 4.1.0

Release Types and Numbering

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

- “a.b”: Standard or LTS release number, for example, “21.2”
- “.c”: Maintenance release number, for example, “.1”
- “-d”: Optional descriptor for pre-release versions, for example, “preview2”

Updates for Core for Kubernetes 4.1.0

C-VEN

Resolved Issues

- **CRI-O 1.26 no longer uses CRI API v1alpha2** (E-102850)
To accommodate CRI-O 1.26 dropping support for v1alpha2, the C-VEN 22.5.13 container runtime support now includes CRI-O 1.26 v1 (1.26.1), and not CRI 1.26 v1alpha2. Therefore, with this release, containerd versions 1.5 or lower, and CRI-O versions 1.19 or lower are no longer supported.
- **Load custom certificates in memory** (E-99919)
In configurations that use a custom-signed PCE to ensure that C-VEN to PCE communication is trusted, an improved internal mechanism now has C-VEN read in any CA bundles for a custom-signed PCE directly from the `/etc/pki/tls/ilo_certs` directory on the C-VEN pods, rather than appending those custom CA bundles to the default bundle `/etc/ssl/certs/ca-bundle.crt`.

Security Information for Core for Kubernetes 4.1.0

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.

Base Image Upgraded

Illumio upgraded the minimal Universal Base Image (UBI) for Kubelink to address vulnerabilities in bash (RHSA-2023:0340). The bash packages provide Bash (Bourne-again shell), which is the default shell for Red Hat Enterprise Linux, in particular, a fix for CVE-2022-3715.

The C-VEN base OS image is upgraded to minimal UBI for Red Hat Linux 7.9-979.1679306063, which is available at <https://catalog.redhat.com/software/containers/ubi7/ubi-minimal/5c3594f7dd19c775cddfa777>.

Customers are advised to upgrade to Core for Kubernetes 4.1.0 for these security fixes.