



Illumio[®] Core for Kubernetes

Version: 4.0.0

Compatible PCE Versions 22.5.0 and later

Release Notes

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Welcome

These release notes describe the resolved issues and related information for the 4.0.0 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 and C-VEN 22.5.11**

This Kubernetes 4.0.0 release includes an upgraded Kubelink component, version 3.2, and an upgraded C-VEN component, version 22.5.11. Note that C-VEN 22.5.11 requires PCE version 22.5.0 or later.

- **Support for K3s**

K3s lightweight Kubernetes deployment is now supported, with the following limitations when deploying: K3s must be installed with the default network policy disabled on the master node by specifying the `-disable-network-policy` parameter. In addition, the master node and all worker nodes must be installed with the `-prefer-bundled-bin` parameter specified, to force the use of the bundled ipset version. Also note that only the default, built-in `flannel` network CNI is currently supported.

- **Support for NodePort**

NodePort as a service type for writing rules is now supported.

- **Support for nftables**

C-VEN now supports Linux OS distributions that uses nftables for packet forwarding and filtering. See the [Illumio Support Portal](#) for the exact versions supported.

Product Version

Compatible PCE Versions: 22.5.0 and later releases

Current Illumio Core for Kubernetes Version: 4.0.0, which includes:

- C-VEN version: 22.5.11
- Kubelink version: 3.2.0
- Helm Chart version: 4.0.0

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 4.0.0

C-VEN

Resolved Issues

- **C-VEN to ignore maintenance token setting** (E-101091)
Starting in 22.5.10, Illumio Core provides optional VEN tampering protection through a token generated per VEN for common maintenance actions. The C-VEN is outside the scope of this effort, and therefore ignores the maintenance token setting.
- **C-VEN does not unpair through Helm uninstall** (E-101089)
The C-VEN would not properly unpair when Helm uninstall is run, because there were two instances of the C-VEN pod running via the Helm uninstall flow. This issue is resolved.
- **Allow user to specify full registry for C-VEN/Kubelink in Helm chart** (E-100910)
Users can now choose a specific image to use when deploying the Helm chart, for example to accommodate a custom registry that a user has images deployed to. To enable this, there is now a new `registry` field in the `values.yaml` file, with a default value of `quay.io/illumio`, for both C-VEN and Kubelink.
- **C-VEN: Failed to apply the policy, and kept the workload in ERROR state due to ipset version mismatch** (E-94349)

After pairing Ubuntu 22 container cluster hosts using C-VEN, the container cluster nodes were moved to the ERROR state, and were unable to apply the policy. This issue is resolved.

Kubelink

Resolved Issues

- **Kubelink: unable to add custom CA cert on OpenShift (E-99517)**
Kubelink was unable to add a custom CA certificate to the CA bundle on OpenShift. The attempt would fail with a "permission denied" error. This issue is resolved.

Security Information for Core for Kubernetes 4.0.0

Fixed a vulnerability in expat package 2.1.0-14.el7_9 by upgrading it to 0:2.1.0-15.el7_9.

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

Since Core 21.5.15 C-VEN, Illumio upgraded the minimal Universal Base Image (UBI) to address vulnerabilities in systemd and systemd-libs (RHSA-2022:6160), and in bind-libs, bind-libs-lite, bind-license, and bind-utils (RHSA-2022:6765), and in expat (RHSA-2022:6834). Customers are advised to upgrade to Core for Kubernetes 3.1.0 for these security fixes.

The C-VEN base OS image is upgraded to minimal UBI for Red Hat Linux 7.9-802, which is available at <http://registry.access.redhat.com/ubi7/ubi-minimal:7.9-802.1665060346>.