



kubernetes+ cloud native

eastern canada meetup

Québec City - 10 Septembre 2025



Meetup Hosts



Sebastien Thomas (Prune)

Lead Software Eng.

Cloud Native Ambassador (CNA)

Wunderkind



Mathieu Benoit

Customer Engineer

Cloud Native Ambassador (CNA)

humanitec



Archy

Customer Engineer

Cloud Native Ambassador (CNA)

 Google Cloud

Agenda

- **Introduction**
- **CNCF News:** Kubernetes 1.34, 10 ans de CNCF
- **Présentations**
 - **Harmony**, Orchestrateur d'infrastructure open-source (25 min) par [Jean-Gabriel Gill-Couture](#)
 - A dinosaur with a blade: How to improve your CI with **Dagger & Deno** (25 min) par [Michael Masson](#)
 - From Zero to Scale: Unlocking Serverless Power with **Knative Serving** (25 min) par [Émile Savard](#)
- **Social:** Discussions (fin à 21h !!)

Un grand MERCI !



VOOBAN

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linktr.ee/cloud.native.ca

Présentez lors de nos Meetups !

- **(Virtuel) Tech Talk**
- **In-Person Meetups**
 - CFP link: <https://sessionize.com/cncf-kubernetes-meetup-quebec-city>
 - Who: Anyone!
 - Focus: cool projects, topics, tools related to CNCF, special guest speakers
 - Durée:
 - 5 à 10 min : lightning talk
 - 20-30 min + Q&A: présentation
 - 45 min + Q&A: masterclass

Prochain Meetup !

- Date : **25 Novembre 2025**
- Lieu/Sponsor : **Bell**
- Présentations :
 - **Retour sur KubeCon NA 2025**
 - **Exploration de KubeVirt avec Harvester par Maxime Roussel et Kevin Lecouvey**
 - **Tooling interne pour implementer GitOps - Fabrice**
 - **IDP + GitOps + ArgoCD + Kargo Promotions + GitHub - Prune**

CNCF Events & Projects Updates

cncf.io/events



KubeCrash - Free Virtual event You'll Love



Cloud Native Open Source Crash Courses for Platform Engineers

Tuesday, September 23, 2025

REGISTER



Lisa-Marie Namphy

CNCF Ambassador; Director Developer Relations,
Intuit



Danielle Cook

CNCF Ambassador, Co-chair CNCF Cartografos
Group

K8s 1.34

58 enhancements

- Alpha: 13
- Beta: 23
- Stable: 22
- few deprecated

This release, **Of Wind & Will (O' WaW)**, honors the winds that have shaped us, and the will that propels us forward.



[Kubernetes 1.34: What's New in Security – ZiGMaX IT Blog](#)

Dynamic Resource Allocation (DRA)

- enables more powerful ways to select, allocate, share, and configure GPUs, TPUs, NICs and other devices.

Status

Alpha: 1.?

Beta: 1.30

GA: 1.43

KEP

[KEP-4381](#)

Linux node swap support (stable)

configurable per-node swap support was introduced !

- Historically, the lack of **swap** support in Kubernetes could lead to workload instability, as nodes under memory pressure often had to **terminate processes abruptly**.
- The primary mode, **LimitedSwap**, allows Pods to use swap within their **existing memory limits**, providing a direct solution to the problem

<https://kubernetes.io/blog/2025/08/19/tuning-linux-swap-for-kubernetes-a-deep-dive/>

Status

Alpha: 1.22

Beta: 1.?

Stable: 1.34

KEP

KEP-2400

Pod-level resource requests and limits

configurable per-node swap support was introduced !

- Defining **resource** needs for Pods with **multiple containers** has been challenging, as requests and limits could only be set on a per-container basis
- To simplify this, the ability to specify **resource requests and limits at the Pod level** was introduced

Status

Alpha: 1.32

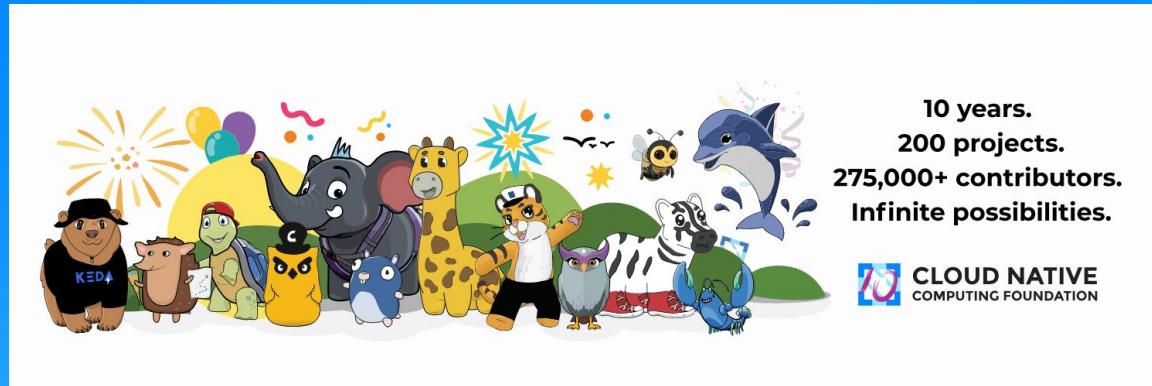
Beta: 1.34

Stable: ?

KEP

[KEP-2837](#)

CNCF just turned 10!



**10 years.
200 projects.
275,000+ contributors.
Infinite possibilities.**

 CLOUD NATIVE
COMPUTING FOUNDATION

CNCF en 2025, c'est quoi ?

In 2025, the **Cloud Native Computing Foundation** (CNCF) is celebrating its 10th anniversary, continuing its mission to build sustainable ecosystems for cloud-native software by fostering open-source communities through its events, projects, and programs like **KubeCon + CloudNativeCon** and **Kubernetes Community Days** (KCDs).

A major focus is on growing global communities, integrating emerging technologies like MLOps and AI, and promoting security and observability across its diverse project portfolio.

cncf.io/training/certification/

Certified Kubernetes Administrator (CKA)

Certified Kubernetes Application Developer (CKAD)

Certified Kubernetes Security Specialist (CKS)

Kubernetes and Cloud Native Associate (KCNA)

Kubernetes and Cloud Security Associate (KCSA)

Prometheus Certified Associate (PCA)

Istio Certified Associate (ICA)

Cilium Certified Associate (CCA)

Certified Argo Project Associate (CAPA)

GitOps Certified Associate (CGOA)

Certified Backstage Associate (CBA)

OpenTelemetry Certified Associate (OTCA)

Kyverno Certified Associate (KCA)

Cloud Native Platform Engineering Associate (CNPA)

Kubestronaut

- Title awarded to people who have completed all 5 certs: KCNA, KCSA, CKA, CKAD and CKS
- Benefits:
 - An exclusive Kubestronaut jacket to show off your elite status
 - A Credly badge to showcase your expertise
 - Access to the dedicated/private Kubestronaut Slack channel and mailing list
 - Five coupons for 50%-off certifications each year, for yourself or to share
 - 20%-off three CNCF events (KubeCon or KubeDays) a year



Golden Kubestronaut

- Title awarded to people who have completed all 13 CNCF certs + LFCS (Linux Foundation Certified System Administrator) + Cloud Native Platform Engineering Associate (CNPA). So, total of 15 certs to be completed
- Benefits:
 - An exclusive backpack with the Golden Kubestronaut logo
 - A special Golden Kubestronaut beanie
 - One free ticket per year to any Kubernetes Community Days (KCD)
 - One 50%-off KubeCon registration per year
 - 60% discount voucher for each new CNCF certification
 - Distinguished Golden representation on the Kubestronaut website



landscape.cncf.io

The image displays a vast collection of logos for cloud native technologies, arranged in a grid format. The categories are as follows:

- Application Delivery & Image Build:** Includes dapr, HELM, buildah, buildpacks.io, Kubetela, KubeVirt, OPERATOR FRAMEWORK, and many others.
- Database:** Features logos for TIKV, Vitess, CockroachDB, Sigmar, EDB, YugabyteDB, and more.
- Continuous Integration & Delivery:** Shows logos for argo, flux, OpenShift CI, Jenkins, CircleCI, and others.
- Streaming & Messaging:** Includes cloudevents, NATS, STRIMZI, and various Kafka-related logos.
- Scheduling & Orchestration:** Contains logos for KEDA, kubernetes, CRI-O, VOLANO, Envoy, CONTOUR, AVI, and others.
- Containerization & Orchestration:** Displays logos for K8S, Kubernetes, CRI-O, VOLANO, Envoy, CONTOUR, AVI, and others.
- Cloud Native Storage:** Lists logos for CubeFS, Rook, LONGHORN, OFT, and various cloud storage providers.
- Cloud Native Network:** Features cilium, CNI, and other network components.
- Container Runtime:** Shows logos for containerd, cri-o, rkt, and others.
- Security & Compliance:** Includes Falco, In-toto, KEYCLOAK, Kyverno, aqua, ARMO, Aristo, and various security tools.
- Automation & Configuration:** Features logos for Chef, Puppet, Ansible, and others.
- Container Registry:** Lists logos for Docker, Quay, Artifactory, and others.
- Key Management:** Shows logos for Hashicorp Vault, KMS, and others.
- Processing:** Includes logos for Falco, In-toto, KEYCLOAK, Kyverno, aqua, ARMO, Aristo, and various processing tools.
- Observability & Metrics:** Features logos for fluentd, Prometheus, cortex, Datadog, Thanos, and various monitoring tools.
- Chaos Engineering:** Shows logos for OpenCost, Dragger, and others.
- Feature Flipping:** Includes logos for Chaos Mesh, Litmus, Open Feature, and others.

The grid is highly dense, with each category containing numerous individual project or service logos.

contribute.cncf.io



Contributors

Maintainers

Resources

Accessibility

About



Contributors
shape the cloud
native landscape

Contribute to a project

Maintain a project

Join mentorship programs

Work on accessibility



Let's face it, behind any project, there are humans, and volunteers...

Health of External Secrets project #5084

Original Text

Hey everyone ☺

TLD; I think `internal-secrets` as a project is unhealthy. I think we should either remove our support scope entirely or move this project to a maintenance-mode and dedicate our resources only to support it.

First off, we've discussed this on today's community meeting - which as always had maybe 0.01% of overall `internal-secrets` usebase. So, I'm making this issue as an issue to:

- 1. Give me some more support options
- 2. Share my suggestions on how to make it sustainable
- 3. Allow the community to decide what to do forward (even if it is "do nothing")

It's been quite a while since I'm feeling we (maintainers) have simply "too much to do". Our contribution number increases, the support request increases but unfortunately the active community members to help this project to grow (by helping, maintaining, etc), is shrinking.

Our maintainers burn in mostly burnout. I am on the path of burning out, where things that used to bring me joy (like helping out users), are not anymore. I've been more and more tired with the community projects. So, for sure I am already very much affected with the overload here.

I really can only say our only active maintainer these days is [@Skarbo](#) - who is a bad sign. Last week when he was on vacation, we had 0 Pull Requests merged, + 20 issues open (most of them support issues).

ANNOUNCEMENTS / STAFF POST

Cloud Native Computing Foundation's FluxCD Project Gains New Corporate Support

As the support landscape for FluxCD evolves and expands, new companies and end users step up to ensure long-term project sustainability

PARIS, France – KubeCon + CloudNativeCon Europe – March 19, 2024 – The Cloud Native Computing Foundation (CNCF™), which builds sustainable ecosystems for cloud native software, today shared that Graduated project **FluxCD** is receiving significant support from new dedicated companies committed to the ongoing maintenance and development of Flux GitOps tools and providing continuous delivery for applications and platforms. With additional support from CNCF, the project has now successfully transitioned to a stronger and broader community.

Companies affirming their support for Flux among their offerings include Aenix, Aviator, Microsoft Azure, ControllerPlane, Edgecore, Fairwinds, Giant Swarm, Gimlet, GitHub, Nearform, Opsmre, Opsworks, OSG, Teracloud, and TNG. Other long-time Flux adopters who have added themselves to the public list recently include Cisco and German retailer Tchibo alongside new use cases from organizations such as the Syvia project.

GitHub announced its continued support for Flux and working with partners in a recent blog post. In early 2023, GitHub integrated Flux with its agent for Kubernetes offering as the recommended GitOps solution.

FluxCD was developed at Weaveworks which announced that it would cease commercial operations at the start of February. CNCF has worked with many FluxCD stakeholders so that end users and former customers can access long term sustainable development and support.

Once a stable release of Ingate is available we will officially put the project in maintenance mode.
If you have an open ingress-nginx PR, please check it is labeled with a milestone, this indicates we plan to work it into a release and no need to reach out further.

Ingress NGINX Project Status Update ▲ #13002

str0ngj opened on Mar 20 Member · ...

We have created a new project, InGate, an Ingress and Gateway API Controller for Kubernetes. [Discussed at the ingress-nginx maintainer meeting](#). In our ingress-nginx KubeCon NA 2023 Maintenance Call, we discussed our path forward for ingress-nginx and future plans for InGate.

What to expect from ingress-nginx maintainers

- Continued minor release patches
 - Security patches
 - Alpha updates
 - Other 3rd party dependencies
 - CVE patches
 - Bug fixes
- 1.13 is all likelihood will be the minor release
- Support new Kubernetes releases via our ingress-nginx e2e tests
- No new features from maintainers
 - Feedbacks from ingress-nginx community members will be on a case-by-case basis
- Migration path from ingress-nginx to InGate

Once a stable release of InGate is available we will officially put the project in maintenance mode.
If you have an open ingress-nginx PR, please check it is labeled with a milestone, this indicates we plan to work it into a release and no need to reach out further.

Towards a Sustainable Service Mesh

William Morgan
Oct 23, 2024 • 6 min read



Open source covers a vast spectrum of projects, but they all face the same existential threat: what ensures this project will be maintained in the future? Today, Linkerd adopters can be confident they're getting the world's simplest, fastest, lightest service mesh. Can they be confident they're getting a project that will be around tomorrow? Another decade?

These are not theoretical questions. The past 18 months alone have provided many examples of just how fragile open source can be:

- In February, Weaveworks, the company behind much of the Gitops movement, [shut its doors](#), temporarily leaving the fate of the widely-used CNCF-graduated Flux project in doubt.
- In March, Redis, a well-established infrastructure project, [changed its licenses](#) to move away from open source, following a similar license change by Terraform a year earlier.
- Last year, Open Service Mesh, a CNCF service mesh project created, maintained, and marketing heavily by Microsoft, [shut down entirely](#), its maintainers reassigned to other projects.

BLOG / MENTORSHIP POST

Beyond Code: Open Source, Mentorship and Microcks

Posted on August 14, 2025 by Krishi Agrawal, LFX Mentee with CNCF - Microcks



Photo by Divya Pavalaguna from Pexels

Open source software proves that collective contribution creates collective value. However, as a contributor to Microcks, I have observed a concerning pattern that threatens the sustainability of the project and countless others in the open source ecosystem.

Présentations

Présentation 1



Harmony, Orchestrateur d'infrastructure open-source

Jean-Gabriel Gill-Couture

Découvrez Harmony, un orchestrateur d'infrastructure open-source qui transforme votre déploiement en code Rust type-safe et vérifié

Présentation 2



A dinosaur with a blade: How to improve your CI with Dagger & Deno

Michael Masson

Learn how to supercharge your CI/CD pipelines by combining Dagger's containerized workflows with Deno's fast, secure JavaScript runtime

Présentation 3



From Zero to Scale: Unlocking Serverless Power with Knative Serving

Émile Savard

Learn how Knative Serving makes your apps scale automatically

Social Networking

Merci !
Thank you!