



kubernetes+ cloud native

eastern canada meetup

Québec City - 26 Septembre 2024



Meetup Hosts



Sebastien Thomas (Prune)

Lead Software Eng.
Cloud Native Ambassador (CNA)

Wunderkind



Mathieu Benoit

Customer Engineer
Cloud Native Ambassador (CNA)



Agenda

- → Introduction
- → CNCF News
- → Prochains Meetup
- → Présentations
 - Déployer et opérer Kubernetes avec Cluster API (CAPI) par Emilien Macchi
 - Au-delà de Kubernetes : Repenser l'orchestration des systèmes distribués avec NATS JetStream par Med Mouine
 - Implémentation d'une Identity provider avec Keycloak par Olivier Beaudet et Kevin Bélanger
- → Discussions

Un grand merci!







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linktr.ee/cloud.native.canada



Présentez lors de nos Meetups!

(Virtuel) Tech Talk

- CFP link: https://www.papercall.io/virtual-cncf-eastern-canada
- Who: CNCF Ambassadors, CNCF Project Maintainers, community members, sponsors, etc.
- Focus: cool projects, topics, tools: special guest speakers
- Durée: 10 à 45 min + Q&A

In-Person Meetups

- CFP link Montreal: https://www.papercall.io/cncf-montreal
- CFP link Ottawa: https://www.papercall.io/cncf-ottawa
- CFP link Toronto: https://www.papercall.io/cncf-toronto
- CFP link Quebec City: https://www.papercall.io/cncf-quebec



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Prochains KubeCon North America





Slack Channel: #kubecon-na-2024

KubeCon EU 2025



CNCF Projects Updates



CNCF's End User Technical Advisory Board (TAB), its mission and initiatives: an intro

BY ALOLITA SHARMA





OpenMetrics is finally back where it has always belonged — Prometheus format

BY DOTAN HOROVITS



Welcome to the CNCF Incubator, Artifact Hub!

BY CNCF





Updates are coming to the CKA exam after November 25th this year

BY CNCF TRAINING & CERTIFICATIONS















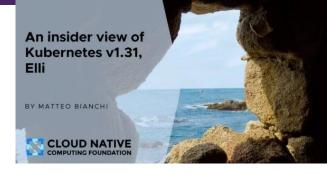
Prometheus 3.0 Beta Released

Posted at: September 11, 2024 by The Prometheus Team

The Prometheus Team is proud to announce the availability of Prometheus Version 3.0-beta! You can download it here. As is traditional with a beta release, we do **not** recommend users install Prometheus 3.0-beta on critical production systems, but we do want everyone to test it out and find bugs.

In general, the only breaking changes are the removal of deprecated feature flags. The Prometheus team worked hard to ensure backwards-compatibility and not to break existing installations, so all of the new features described below build on top of existing functionality. Most users should be able to try Prometheus 3.0 out of the box without any configuration changes.

Kubernetes 1.31.1



- AppArmor support for Kubernetes, which includes the ability to specify an AppArmor profile for a container or pod in the API, and have that profile applied by the container runtime
- Pod-level resource limits (alpha)
- Job Success/completion policy (beta): allows setting conditions under which an Indexed Job can be declared successful
- Deprecate and remove kustomize from kubectl (alpha)
- Node Memory Swap Support (stable)
- Introduce MatchLabelKeys and MismatchLabelKeys to PodAffinity and PodAntiAffinity (beta): it addresses scheduling challenges that arise when new and old Pod versions are present simultaneously, particularly in saturated or idle clusters. This enhancement aims to improve scheduling effectiveness and cluster resource utilization.

Local community



Some contents from our very own local community!

- Code
 - Release argo-cd-7.6.4 · argoproj/argo-helm | **Dominique Laberge**
 - Pull requests · meshery/meshery | Mathieu Evrin
 - Release v0.4.0 · kubecolor/kubecolor | Sebastien Thomas
 - Release 0.1.10 · score-spec/score-k8s | Mathieu Benoit
- Blogs
 - My Experience at Cloud Native Security Con 2024 | Maxime Coquerel
 - My First In-Person KubeCon Experience in Paris, France | Maxime Coquerel
 - What if the Azure-Samples/aks-store-demo was using Score? | Mathieu Benoit



Présentations! CLOUD NATIVE COMPUTING FOUNDATION

CAPI



Emilien Macchi



NATS JetStream



Med Mouine



KeyCloak



Olivier Beaudet



Kevin Bélanger



