



kubernetes+ cloud native

eastern canada meetup

Québec City - 27 Mai 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:** Retour sur la Kubecon Europe (Londres)
- **Présentations**
 - **Yoke**: une alternative à Helm et kro qui n'est pas basé sur du yaml par [David Desmarais-Michaud](#)
 - **Dagger**: building Base Docker Images par [Ricardo Lima](#)
 - Introduction à **Backstage** par [Florian Judith](#) & [Teddy Poingt](#)
- **Social:** Discussions (fin à 21h !!)

Un grand MERCI !

beneva

Follow Us & Stay Connected



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: CNCF Ambassadors, CNCF Project Maintainers, community members, sponsors, etc.
 - 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

CNCF Events



Celebration Party - Coming soon



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



KubeCon EU 2025



KubeCon



CloudNativeCon

Europe 2025

EVENT SNAPSHOT



MOST REPRESENTED COUNTRIES

- | | | | | |
|-----------|----------------|------------|----------------|------------|
| 1. UK | 2. USA | 3. GERMANY | 4. NETHERLANDS | 5. FRANCE |
| 6. NORWAY | 7. SWITZERLAND | 8. POLAND | 9. SPAIN | 10. ISRAEL |

TOP THREE JOB FUNCTIONS

1. DEVOPS / SRE / SYSADMIN
2. DEVELOPER
3. ARCHITECT

2,947 **24** **241** **84**
CFP SUBMISSIONS KEYNOTES BREAKOUTS MAINTAINER TRACK SESSIONS

PROJECT PARTICIPATION # OF PROJECTS REPRESENTED

16 **50** **96**
CONTRIBFEST PROJECT LIGHTNING TALKS PROJECT PAVILION

12,418

ATTENDEES

46% FIRST TIME ATTENDEES

156 **6,149**

MEDIA + ANALYSTS ALL-ACCESS REGISTRATIONS

ATTENDEES PER REGION



CFP ACCEPTANCE RATE: 8%

END USER TALKS: 36%

GENDER MINORITY SPEAKERS: 26%

GENDER MINORITY KEYNOTE SPEAKERS: 21%

16

CNCF-HOSTED CO-LOCATED EVENTS

15

SPONSOR-HOSTED CO-LOCATED EVENTS

Maxime - zigmax.net/kubecon-eu25

Observability & LLMs: Organizations like eBay demonstrated how large language models enhance observability by simplifying data analysis and improving accessibility.

Platform Engineering: Emphasis was placed on abstracting Kubernetes complexity to accelerate adoption and reliability across teams.

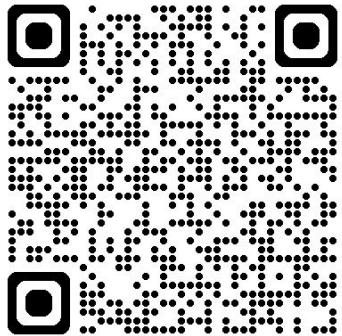
Security & Compliance: The EU's Cyber Resilience Act drove conversations on supply chain security and compliance in cloud-native applications.

Must-Watch Sessions:

- The Bricks That Make Us – How the LEGO Group Avoids 50 Mediocre Kubernetes implementations
- The Past, the Present, and the Future of Platform Engineering
- Platform Engineering for Software Developers and Architects
- **Platform Engineering Loves Security: Shift Down To Your Platform (Mathieu & Maxime)**

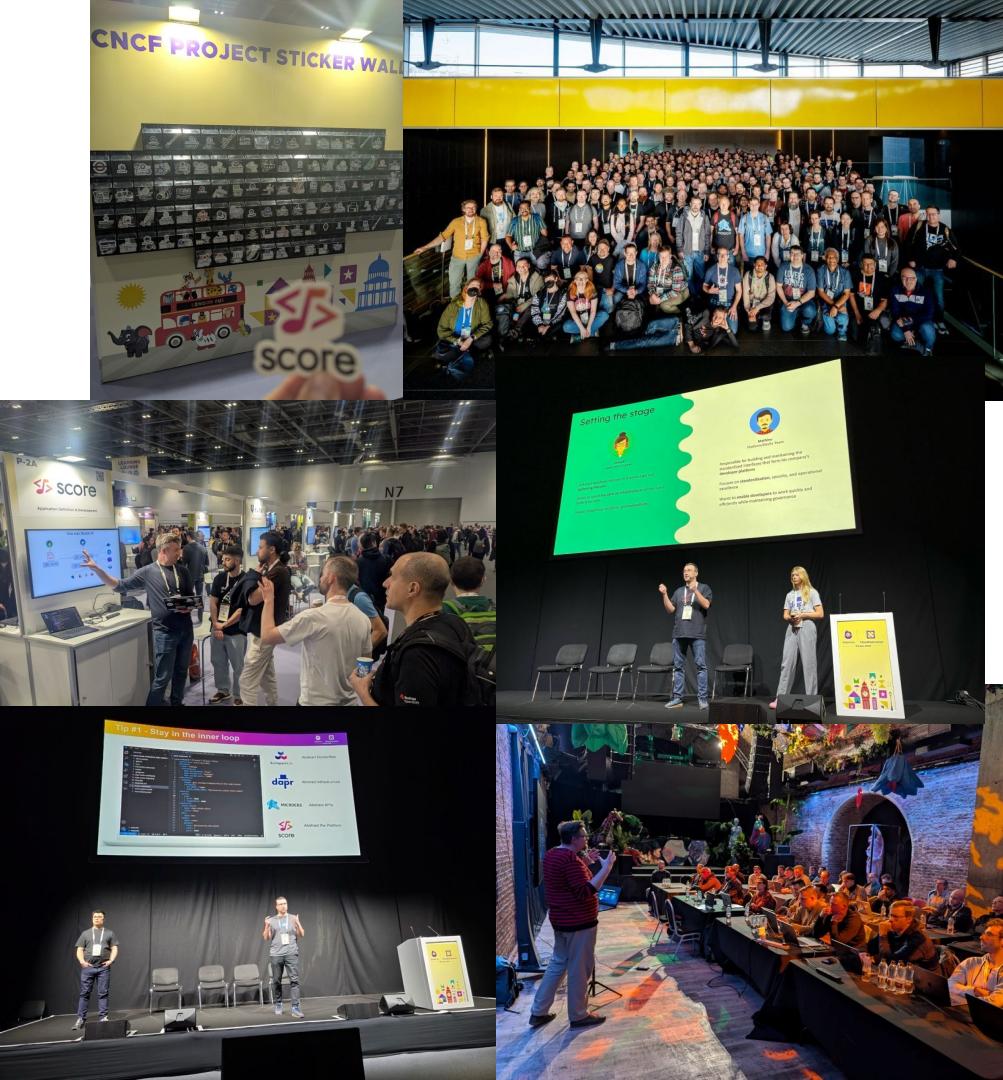
Mathieu

Trip report - Score at KubeCon London 2025



- App Dev
- Platform Engineering
- Agentic AI
- Observability
- Security

 score



CNCF Projects Update



10 Years in Cloud Native: TOC Restructures Technical Groups



Announcing Two New Cloud Native Heroes Challenges

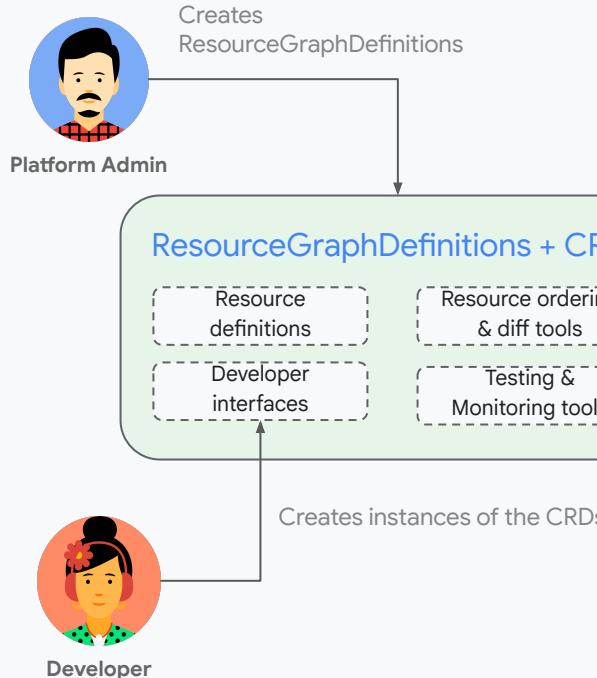


Kagent: Bringing Agentic AI to Cloud Native

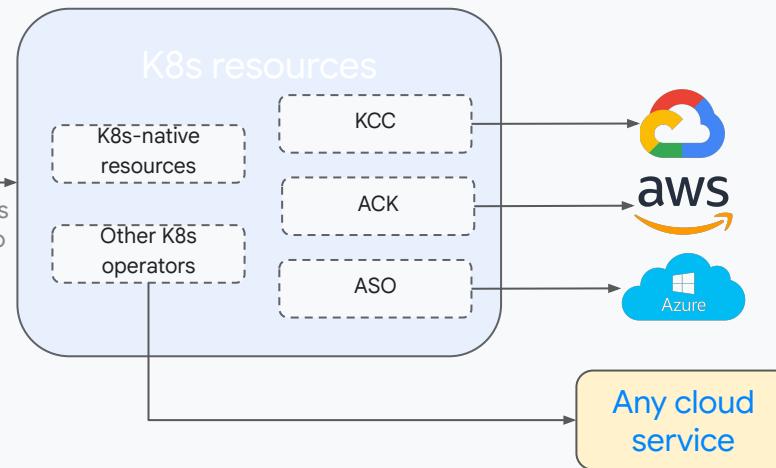


Kube Resource Orchestrator (kro)

kro can be used to define simple and secure developer interfaces for any cloud service. It is an OSS project being developed by Google, AWS, and Microsoft.



kro helps you build a self-service developer platform that works consistently across clouds.





K8s 1.33

K8s 1.33

64 enhancements

- **Alpha:** 24
- **Beta:** 20
- **Stable:** 18
- 2 deprecated

The theme for Kubernetes v1.33 is **Octarine: The Color of Magic**. This release highlights the open source magic that Kubernetes enables across the ecosystem.

"It's still magic even if you know how it's done." Sir Terry Pratchett's



In-Place Pod Resize (IPPR) for VPA

- Increase resource utilization and minimize costs by using non-disruptive Vertical Pod Autoscaling (VPA) for automatic workload rightsizing
- You can control whether a container should be restarted when resizing by setting `resizePolicy` in the container specification. This allows fine-grained control based on resource type (CPU or memory).
 - `NotRequired`: (Default) Apply the resource change to the running container without restarting it.
 - `RestartContainer`: Restart the container to apply the new resource values.

Status

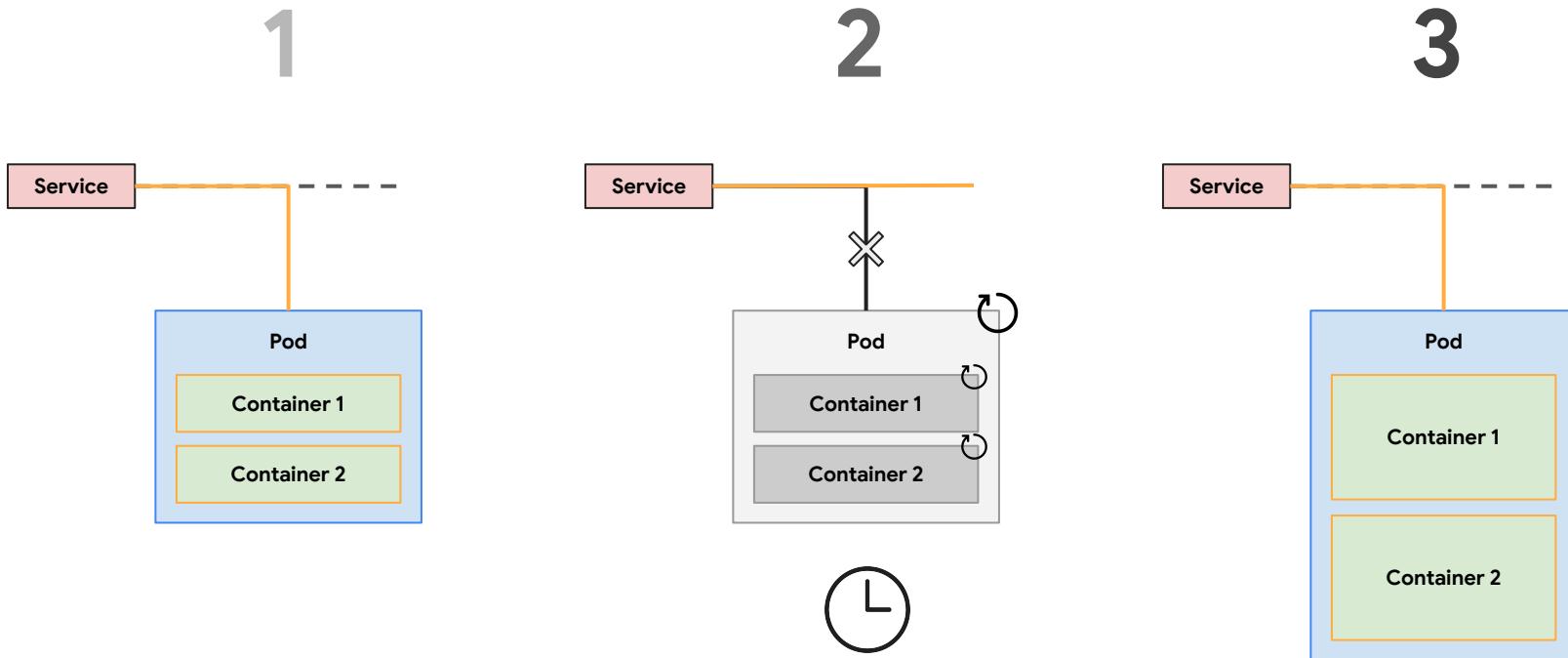
Alpha: 1.27

Beta: 1.33

KEP

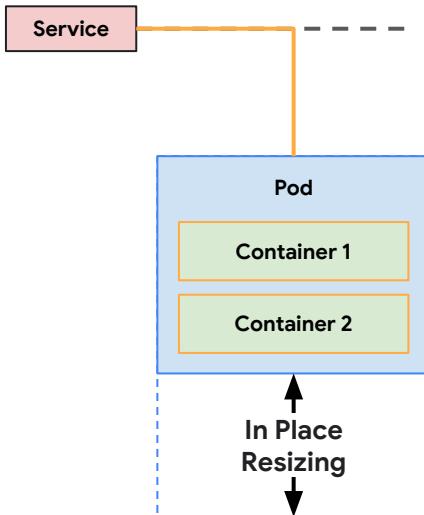
[KEP-1287](#)

In-Place Pod Resizing - Before

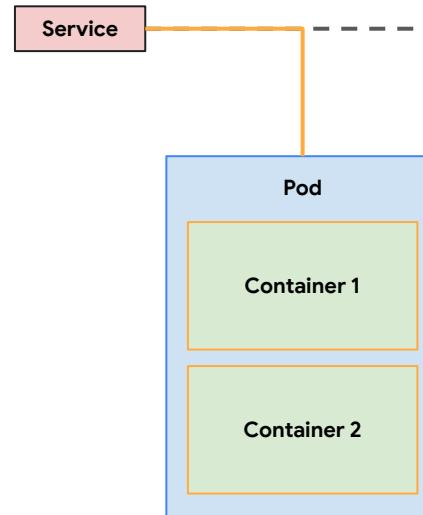


In-Place Pod Resizing (Beta)

1



2



How to: In-Place Pod Resize

1. Update kubectl to 1.33 or newer
2. Create a Pod
3. Resize the pod using 'patch':

```
kubectl patch pod <pod-name> --subresource resize --patch \  
'{"spec": {"containers": [{"name": "<container-name>", "resources": {"requests": {"cpu": "100"},  
"limits": {"cpu": "100"} } }]}'
```

Official documentation:

<https://kubernetes.io/docs/tasks/configure-pod-container/resize-container-resources/>

Sidecar containers

Sidecar containers are now Stable!

- Sidecar containers used to enhance or to extend the functionality of the primary app container by providing additional services, or functionality such as logging, monitoring, security, or data synchronization, without directly altering the primary application code.
- Use “`restartPolicy`” field to use init container as sidecar container.
- Omitting the “`restartPolicy`” field means you want to create a pure init container.

Status

Alpha: 1.28

Beta: 1.29

Stable: 1.33

KEP

[KEP-753](#)

Présentations

Présentation 1



Yoke

David Desmarais-Michaud

Une alternative à Helm et kro qui n'est pas basé sur du yaml

Présentation 2



Dagger

Ricardo Lima (WunderKind)

Building Base Docker Images

Présentation 3



Introduction à Backstage

Florian Judith & Teddy Poingt (Beneva)



Swag !

Scan, Register, Win Swag !



<https://forms.gle/SAEec1bSNc9aKyT8>

Social Networking

Prochain Meetup: 11 Septembre

10 ans de CNCF = Party !!!

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



CLOUD NATIVE
COMPUTING FOUNDATION



Merci !
Thank you!