

kubernetes+ cloud native

eastern canada meetup

Québec City - 10 Avril 2024



Meetup Hosts

10 Avril 2024



Sebastien / Prune

Lead Software Eng.

Cloud Native Ambassador (CNA)



Mathieu Benoit

Customer Engineer

Cloud Native Ambassador (CNA)

Wunderkind

 **humanitec**



Agenda

- Introduction
- CNCF News
- Prochains Meetup
- Retour KubeCon EU 2024 à Paris
- Présentations
 - ◆ Comment rouler de l'IA sur Kubernetes sans se ruiner ? par Francois Beauchemin (Vooban) - 15 min
 - ◆ Tuning de CEPH a 1TB/s par Jean-Gabriel Gill-Couture (NationTech) - 5 min
 - ◆ Turing Pi 2 avec Kubernetes par Sylvain Boily (Wazo) - 30 min
 - ◆ Workload Specification Score par Mathieu Benoit (Humanitec) - 10 min



Un grand merci !



Vooban



CLOUD NATIVE
COMPUTING FOUNDATION

VOOBAN

BIENVENUE CHEZ VOOBAN



POUR NOUS CONNAÎTRE ENCORE PLUS...



02

Bureaux:
Québec et Montréal



12

Années depuis la fondation de
Vooban



135

Employés et on continue de
grossir!

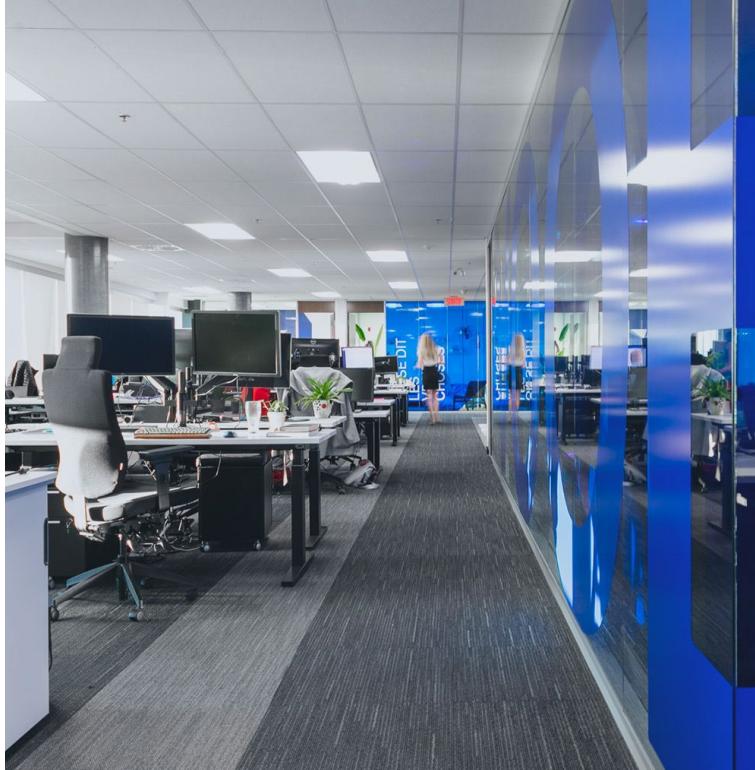
OT

VRAIES
CHOSES

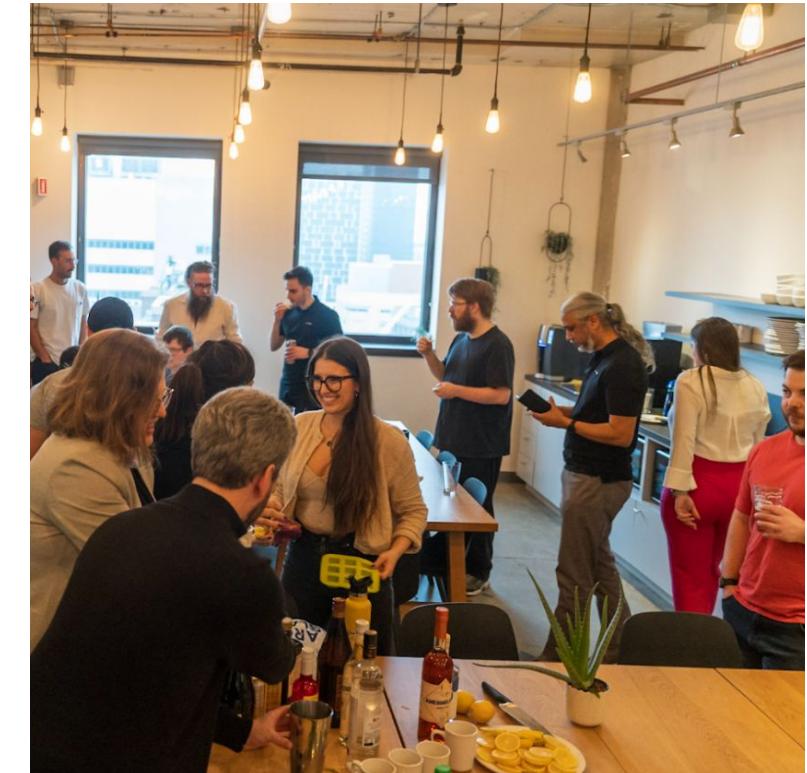


NOS BUREAUX

QUÉBEC



MONTRÉAL



NOTRE EXPERTISE

NOUS SOMMES UNE ENTREPRISE DE SERVICE QUI SE SPÉCIALISE DANS LES PROJETS DITS COMPLEXES



INTELLIGENCE ARTIFICIELLE



SOLUTIONS LOGICIELLES
APPLICATIONS WEB ET MOBILE



INTERNET DES OBJETS
(IOT)

LES TECHNOSES UTILISÉS

CE SONT LES TECH LEADS ET LES TOP GEEKS
QUI CHOISISSENT DES TECHNOSES UTILISÉES SUR
LE PROJET.

TECHNOS SUR PLUSIEURS PROJETS

- .NET / C#
- REACT
- JAVASCRIPT, TYPESCRIPT
- DOCKER
- KUBERNETES

L'IMPORTANT, ON S'ADAPTE!

NOS OUTILS

- SUIVI DE PROJET (JIRA)
- VERSIONAGE (GIT, GITLET, BITBUCKET)
- COMMUNICATION (SLACK)
- ÉDITION DE CODE (VS CODE, SUITE JETBRAINS)





PODCAST VOOBAN HIVE

ON PARLE DES PROJETS SUR LESQUELS ON TRAVAIL POUR
VOUS FAIRE DÉCOUVRIR L'INNOVATION QUI SE BRASSE
CHEZ VOOBAN



UNE MULTITUDE D'ACTIVITÉS

UN CLUB SOCIAL DE FEU QUI ORGANISE DES ACTIVITÉS CHAQUE MOIS.



POURQUOI TRAVAILLER CHEZ VOOBAN

- FLEXIBILITÉ DE TES HEURES ET POSSIBILITÉ DE SEMAINES DE QUATRE JOURS EN TOUT TEMPS
- REER COLLECTIF AVEC CONTRIBUTION DE L'EMPLOYEUR JUSQU'À 4% MAXIMUM DE 4000\$ PAR ANNÉE
- ALLOCATION DE 500\$ POUR TON SPORT ET 120\$ POUR TES FRAIS DE CONNECTIVITÉ PAR MOIS
- ASSURANCES COLLECTIVES PAYÉES À 100%
- COLLATIONS, CAFÉ ET BIÈRE À VOLONTÉ



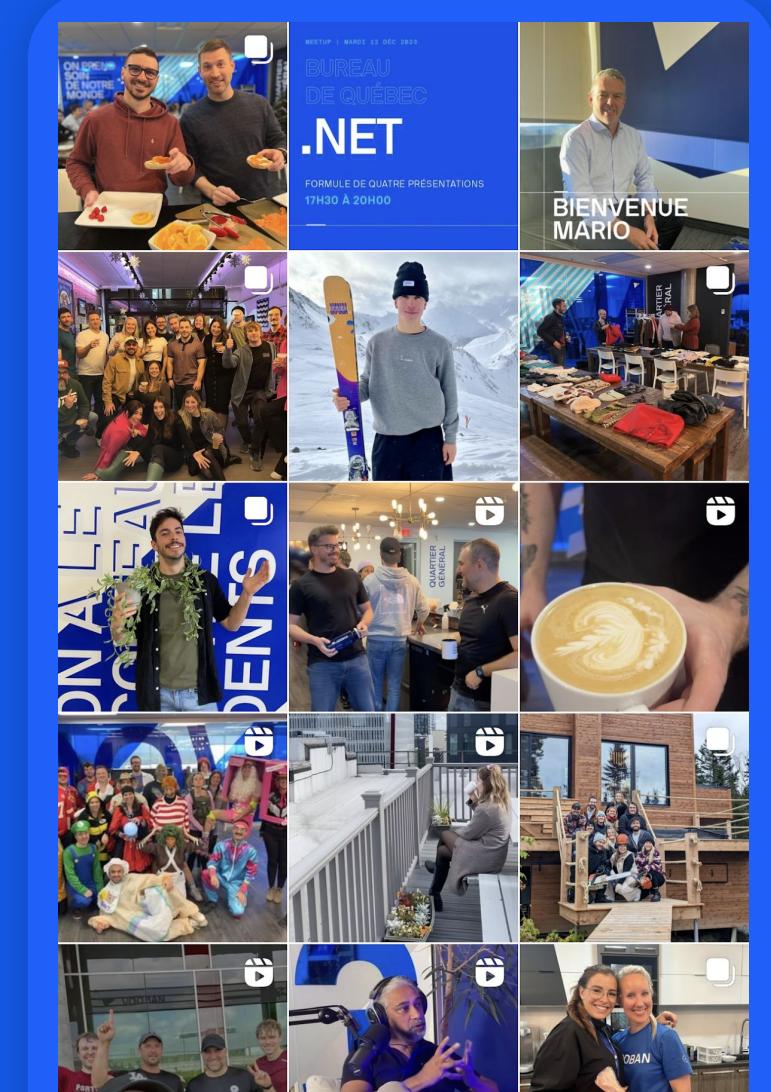
VOOBAN

LES POSTES DISPONIBLES

VOOBAN

POUR SUIVRE NOTRE CULTURE

@VOOBANVIBE



Follow Us & Stay Connected!



The screenshot shows the LinkedIn group page for "Cloud Native Canada #CloudNativeCA". The group is listed under "Cloud Native EASTERN CANADA". It features a blue header with the Kubernetes logo and the text "kubernetes+ cloud native eastern canada meetup". It is identified as an official Meetup group of the Cloud Native Computing Foundation. Below the header, there are icons for sharing, notifications, and more options. The main content area displays the group's name and description.



The screenshot shows the Twitter profile for "CloudNativeCanada" (@CloudNativeCA). The profile picture features a blue hexagon with a white steering wheel and a red maple leaf. The bio reads "kubernetes+ cloud native eastern canada meetup". There is a link to "Edit profile". The profile has 4 tweets. The handle @CloudNativeCA is displayed below the bio.

@CloudNativeCA



The screenshot shows the YouTube channel page for "Kubernetes Canada Community". The channel art features a blue hexagon with a white steering wheel and a red maple leaf. The channel name is "Kubernetes Canada Community" and it has 151 subscribers. The channel has 45 videos.



Follow Us & Stay Connected!



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>



Become a Sponsor!



A venir

- **Next Meetup**
 - Right after KubeCon Paris: 3 ou 10 avril ? Merci Vooban !
- **Enregistrement et Livestream des prochaines sessions?**
 - Enregistrement?
 - Livestream?



CNCF News



CLOUD NATIVE
COMPUTING FOUNDATION

kubernetes.io/blog

Posts in 2024

[Image Filesystem: Configuring Kubernetes to store containers on a separate filesystem](#)

Tuesday, January 23, 2024 in Blog

Author: Kevin Hannon (Red Hat) A common issue in running/operating Kubernetes clusters is running out of disk space. When the node is provisioned, you should aim to have a good amount of storage space for your container images and running containers. ...

[Read more](#)

[Spotlight on SIG Release \(Release Team Subproject\)](#)

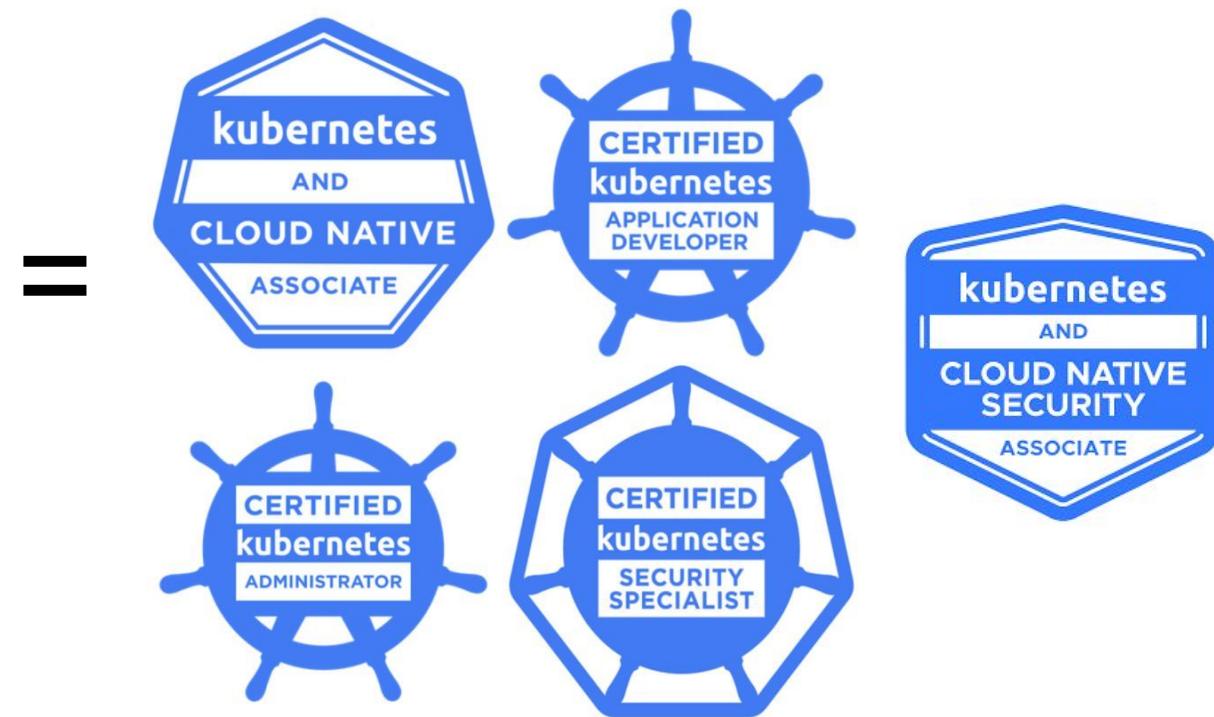
Monday, January 15, 2024 in Blog

Author: Nitish Kumar The Release Special Interest Group (SIG Release), where Kubernetes sharpens its blade with cutting-edge features and bug fixes every 4 months. Have you ever considered how such a big project like Kubernetes manages its timeline ...

[2 Read more](#)



New K8s Certification



New CNCF Certification

NEW

Certified GitOps
Associate (CGOA)

 THE LINUX FOUNDATION | Training & Certification



 CLOUD NATIVE COMPUTING FOUNDATION



Existing CNCF Certificates:

Prometheus Certified Associate (PCA)

Istio Certified Associate (ICA)

Cilium Certified Associate (CCA)

Certified Argo Project Associate (CAPA)

GitOps Certified Associate (CGOA)



Prochains KubeCon North America



KubeCon EU 2025



CNCF Project Update

CNCF Incubation

Strimzi, welcome to
the CNCF
Incubator!

BY CNCF



STRIMZI



CNCF Incubation

**OpenFeature
becomes a CNCF
incubating project!**

BY CNCF



**Open
Feature**



CNCF Graduation

ANNOUNCEMENT

CloudEvents
graduates!



CNCF Graduation

ANNOUNCEMENT

eBPF-powered
Cilium Graduates!



CLOUD NATIVE
COMPUTING FOUNDATION



cilium



CNCF Graduation



 CLOUD NATIVE
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FALCO
GRADUATION
2024



Local community



CLOUD NATIVE
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Some contents from our local community

- [Azure Spring Clean 2024 | Azure Pentesting Introduction 2024 - par Maxime Coquerel](#)
- [Modern Work & Security Community Group | Azure Pentesting Introduction - par Maxime Coquerel](#)
- [Platform Engineering @ KubeCon Paris 2024 - by Mathieu Benoit](#)



Récap Kubecon EU 2024





KubeCon



CloudNativeCon

Europe 2024

INITIAL DEMOGRAPHIC DATA



12,048

ATTENDEES

51% 1ST-TIME ATTENDEES

151

MEDIA +
ANALYSTS

16

CNCF-HOSTED
CO-LOCATED
EVENTS

12

SPONSOR-HOSTED
CO-LOCATED
EVENTS

ATTENDEES PER REGION





MOST REPRESENTED COUNTRIES

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

2,541
CFP SUBMISSIONS

19
KEYNOTES

108
MAINTAINER TRACK
SESSIONS

223
BREAKOUTS

TOP THREE JOB FUNCTIONS

- 1: DEVOPS/SRE 2: DEVELOPER /SYSADMIN 3: ARCHITECT

CFP ACCEPTANCE RATE: 9%

END USER TALKS: 41%

GENDER MINORITY SPEAKERS: 25%

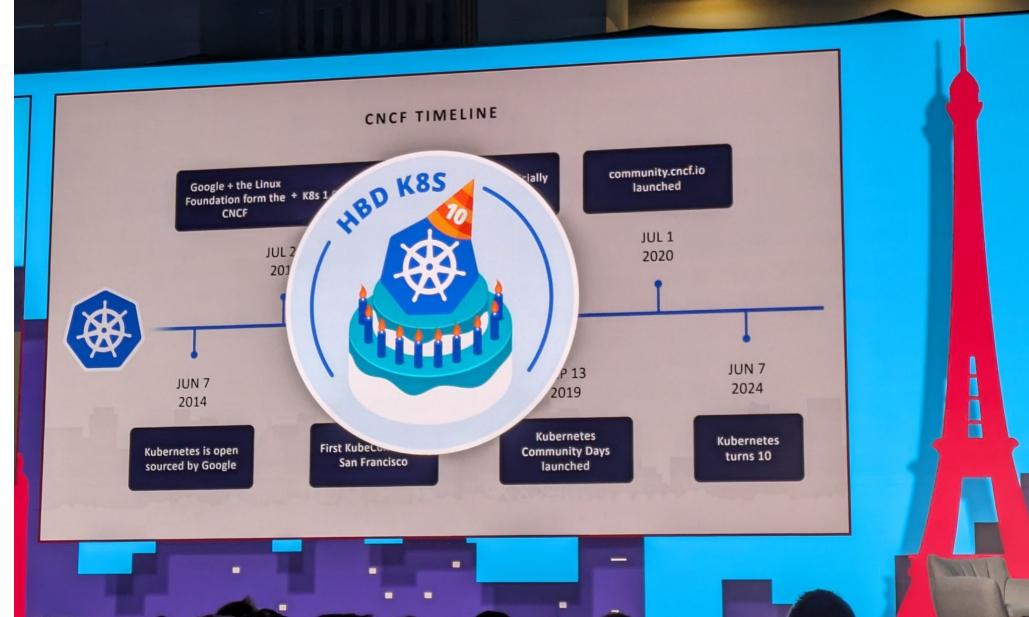
% OF GENDER MINORITY KEYNOTE SPEAKERS: 37%



Maxime

My Security Journey @ KubeCon Europe 2024 - Paris

- Pre-Day: Microsoft AKS Day (Roadmap Sessions)
- KubeCon + Cloud Native Executive Summit



- Top 5 Security Sessions:
 - **Securing 900 Kubernetes Clusters Without PSP - Mercedes-Benz' Journey to ValidatingAdmissionPolicies**
 - Living off the Land Techniques in Managed Kubernetes Clusters
 - Keeping Kubernetes Safe: The Lowdown on Locked Namespaces
 - I'll Let Myself In: Kubernetes Privilege Escalation Tactics
 - Open Policy Agent (OPA) Intro & Deep Dive



Mathieu

Platform Engineering at KubeCon Paris 2024

<https://medium.com/p/1da02e6247e2>

- TAG App Delivery
- Platforms WG breakfast
- PE Day (+ AppDevCon, BackstageCon, etc.)
- Platform-as-Product
- UX
- 36 sessions listed, enjoy!



What we learned

Deliver value with backstage

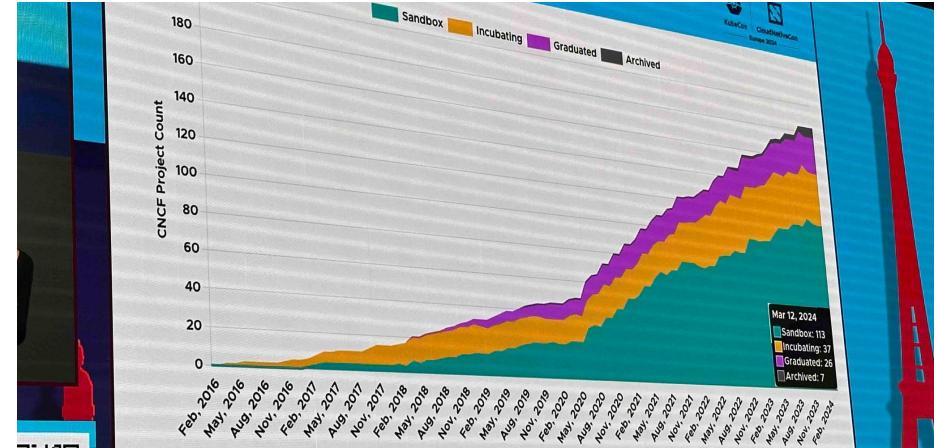
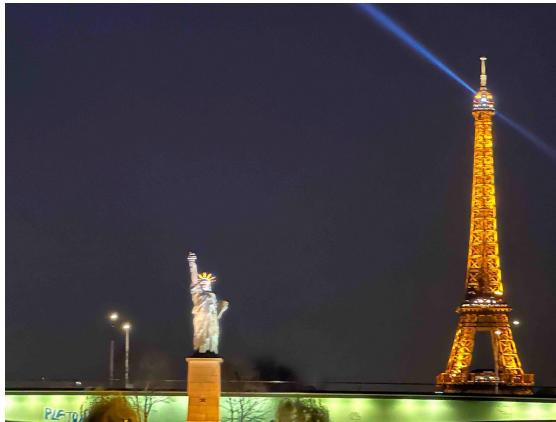
- If you have strict policies and processes around security, access and data etc. Backstage setup and integration takes time. Communicate this to stakeholders.
- Harder learning curve on Backstage development than expected.
- Mindset change from features to outcome is hard. Technical profiles will by default optimize for platform/scaling over outcome/value. Coaching needed
- Validate value and "market fit" early with pilots to get feedback into team.

Backstage | con
EUROPE



Prune

- Trends:
 - AI all the way down...
 - executer AI (LLMs) sur Kubernetes
 - Gateway API devient mature
 - GitOps et ArgoCD toujours à la mode
- Gros succès des Rejekts !
- Gros succès des Colocated Events (Argo, Backstage)
- Maturité de eBPF pour Network et Sécurité



Présentations !

Turing Pi 2 avec Kubernetes



**Sylvain Boily
(Wazo)**



Comment rouler de l'IA sur Kubernetes sans se ruiner ?



**Francois
Beauchemin
(Vooban)**

Workload Specification Score



Mathieu Benoit
(CNCF Ambassador
& Humanitec)



Prix pour les bonnes questions !



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