

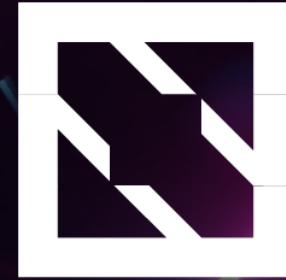


# KubeCon

THE LINUX FOUNDATION



China 2024



# CloudNativeCon





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# Keynote: Kubernetes Contributions and Cloud Native Activities in China

Paco Xu

Iceber Gu

# Intro



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## Paco Xu

- Kubernetes Steering Committee Member
- Mainly worked on kubeadm & sig-node
- Github: [pacoxu](#)
- Twitter: [xu\\_paco](#)
- ❤️ → ⚽ & PUBG

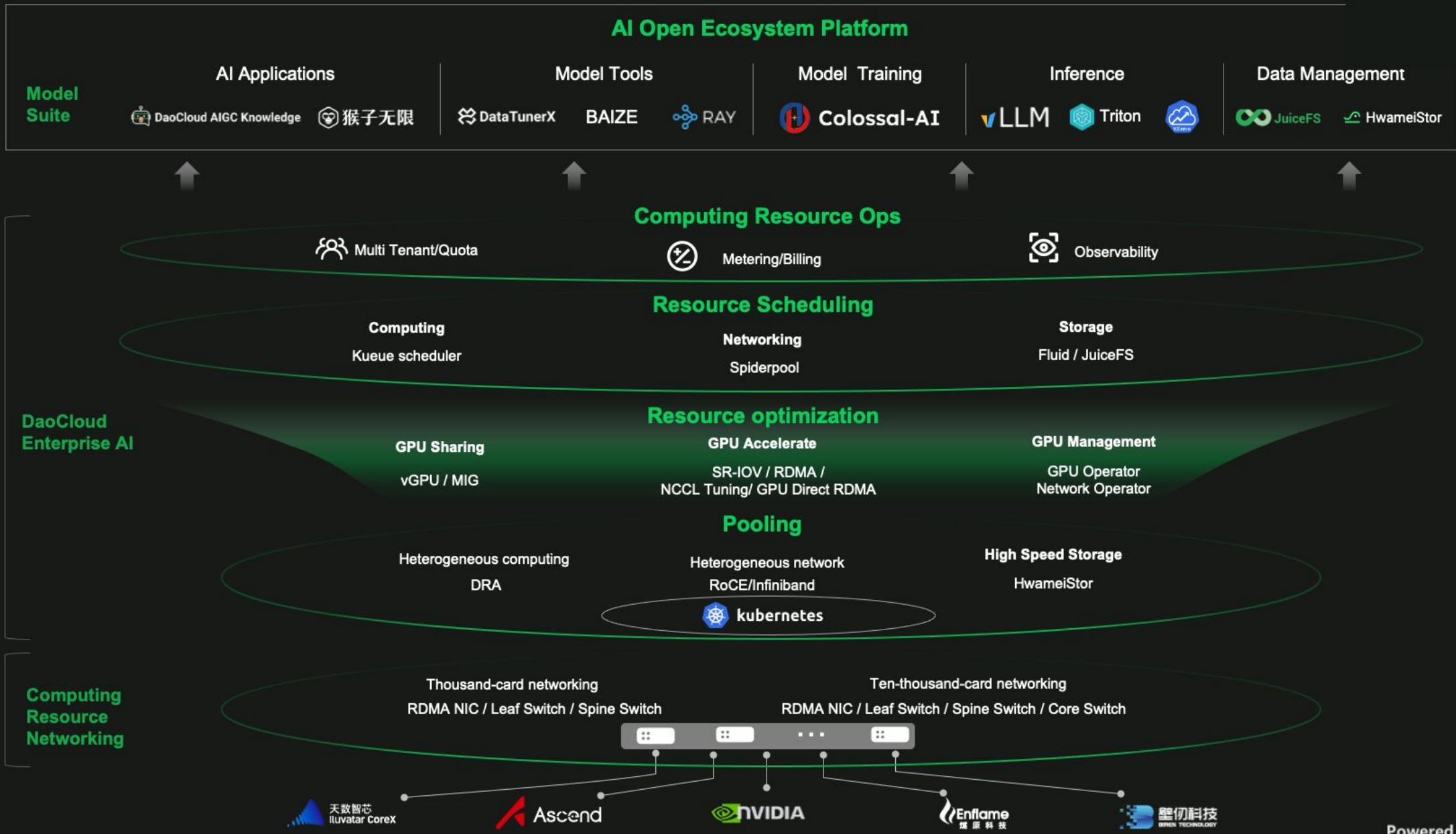


## Iceber Gu

- CNCF Ambassador
- Clusterpedia Founder
- Containerd Maintainer
- KCD Shanghai 2024 Organizer
- KCD Shenzhen 2023 Organizer
- KCD Beijing 2023 Organizer
- Github: [Iceber](#)



# d.run Product Panorama





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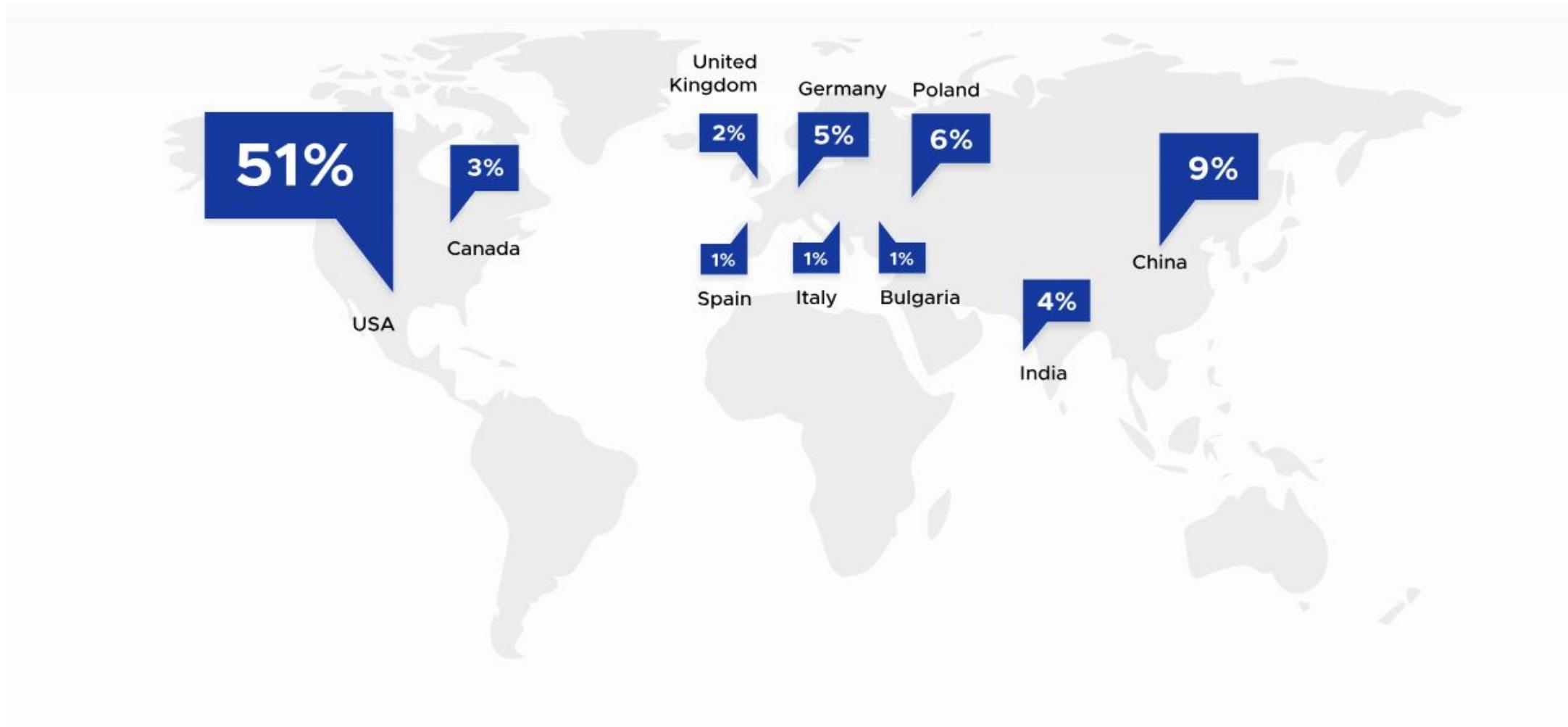
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# Kubernetes Contributions in China

## Countries of Top Contributing Companies

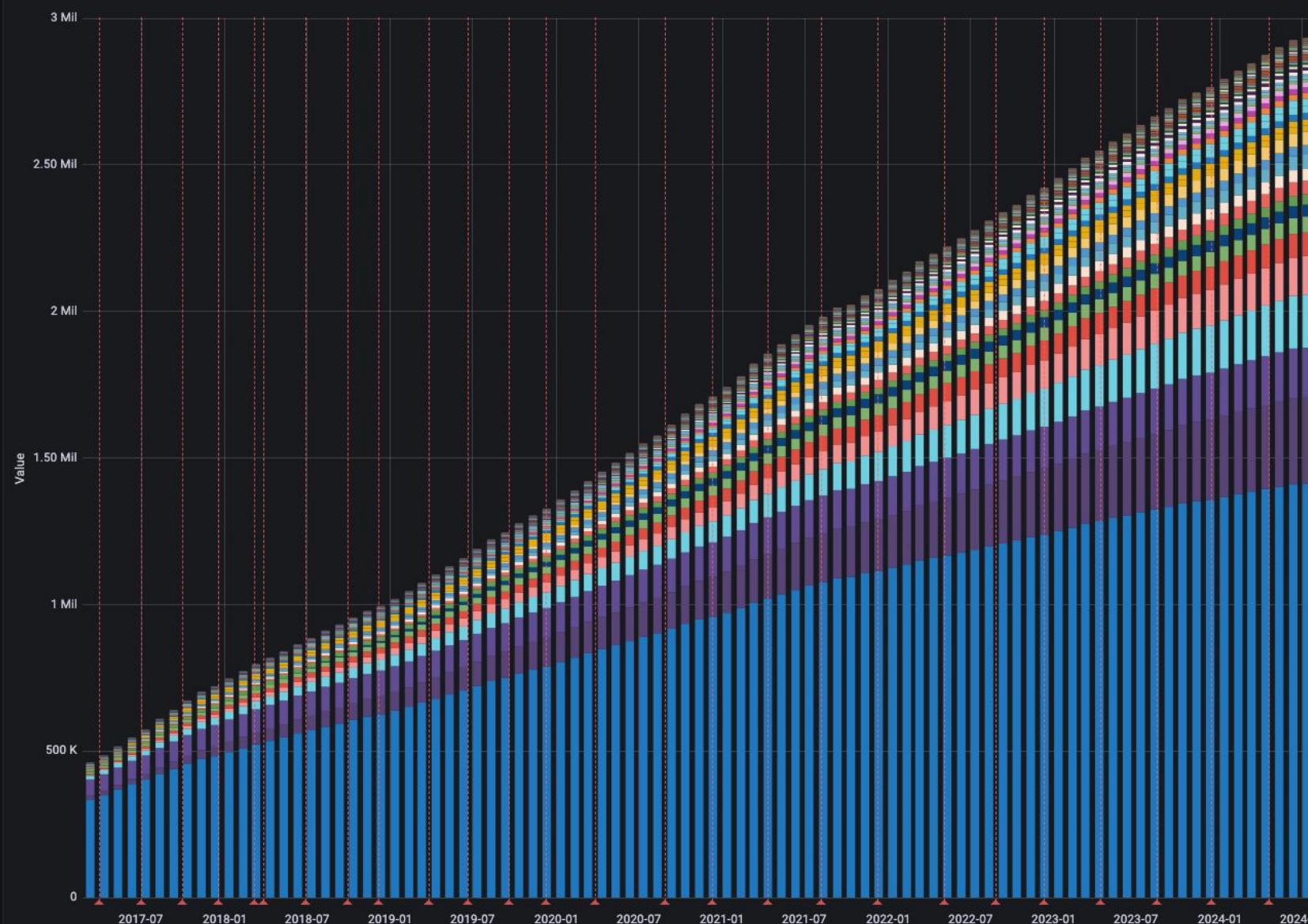




Period Month Countries All Repository group All Metric Contributions Cumulative Yes Releases



## Kubernetes Contributions countries stats (All)



	min	max	avg	current
United States	335 K	1.41 Mill	925 K	1.41 Mill
China	12.5 K	293 K	141 K	293 K
Poland	55.7 K	171 K	116 K	171 K
Germany	12.5 K	181 K	82.1 K	181 K
India	3.11 K	131 K	56.5 K	131 K
Canada	3.18 K	81.2 K	42.4 K	81.2 K
United Kingdom	6.86 K	54.3 K	31.4 K	54.3 K
Bulgaria	100	40.6 K	21.1 K	40.6 K
Finland	5.71 K	35.0 K	20.1 K	35.0 K
Japan	1.38 K	47.0 K	20.0 K	47.0 K
Italy	1.54 K	41.2 K	19.8 K	41.2 K
Australia	1.87 K	47.0 K	19.3 K	47.0 K
France	2.12 K	32.5 K	17.8 K	32.5 K
Spain	719	46.3 K	17.3 K	46.3 K
Chile	2.52 K	21.2 K	16.2 K	21.2 K
Nicaragua	1.87 K	20.1 K	13.0 K	20.1 K
Czech Republic	2.61 K	22.2 K	12.5 K	22.2 K
Korea Republic of	82	24.8 K	10.9 K	24.8 K
Romania	54	24.0 K	8.88 K	24.0 K
Brazil	515	20.3 K	8.84 K	20.3 K
Sweden	367	18.1 K	8.40 K	18.1 K
Portugal	1.51 K	18.2 K	7.52 K	18.2 K
Russian Federation	1.71 K	9.71 K	6.83 K	9.71 K
Netherlands	1.35 K	8.83 K	5.64 K	8.83 K
Mexico	103	9.39 K	5.39 K	9.39 K
Norway	333	11.7 K	5.37 K	11.7 K
Switzerland	560	11.3 K	5.00 K	11.3 K
New Zealand	97	8.04 K	3.96 K	8.04 K
Israel	465	7.80 K	3.31 K	7.80 K
Indonesia	50	5.73 K	3.30 K	5.73 K
Denmark	90	4.01 K	2.88 K	4.01 K
Belgium	172	4.50 K	2.87 K	4.50 K
South Africa	200	4.24 K	2.63 K	4.24 K
Taiwan Province of China	6.35 K	2.37 K	6.35 K	6.35 K

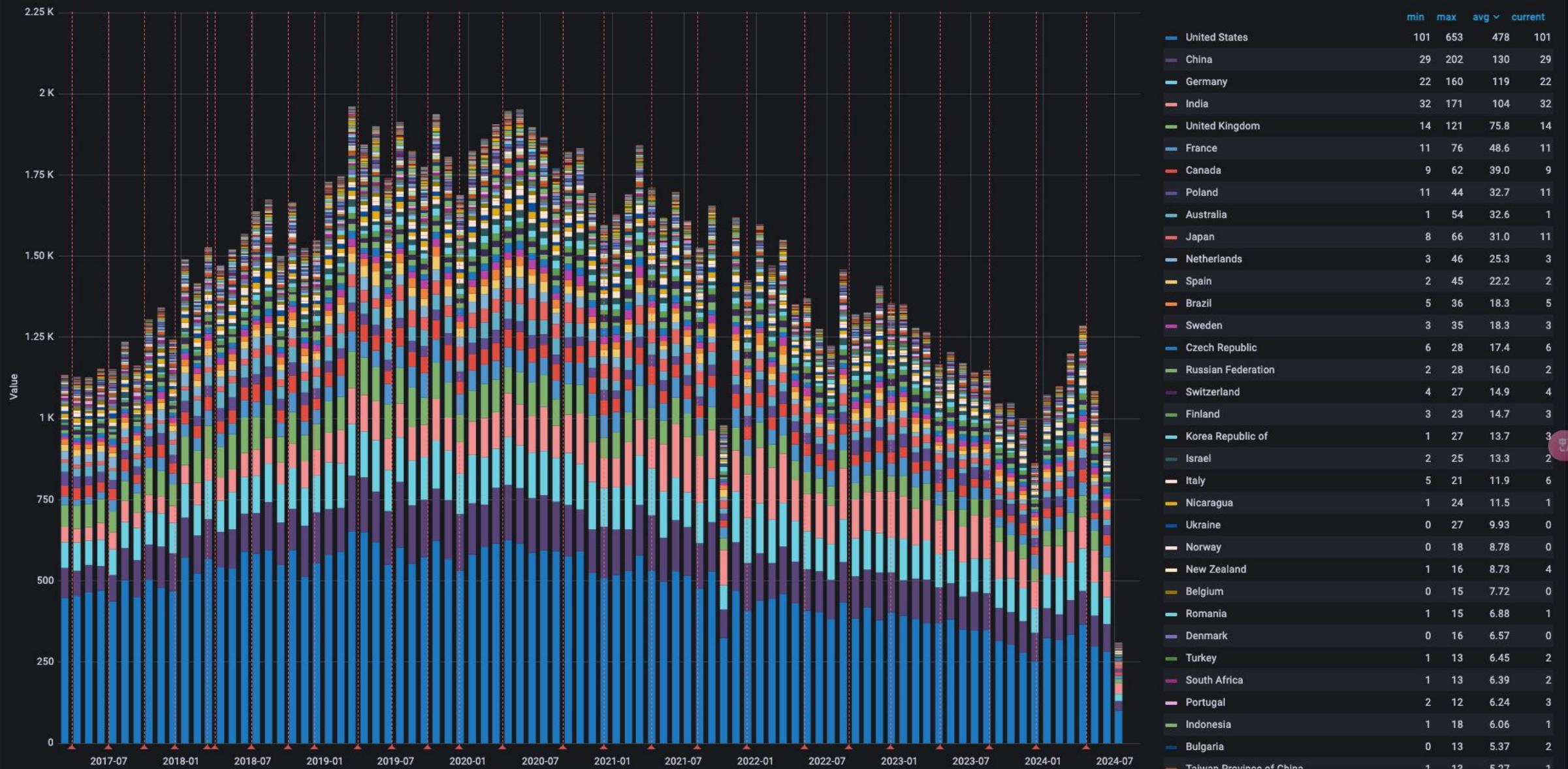


Period Month Countries All Repository group All Metric Contributors Cumulative No Releases



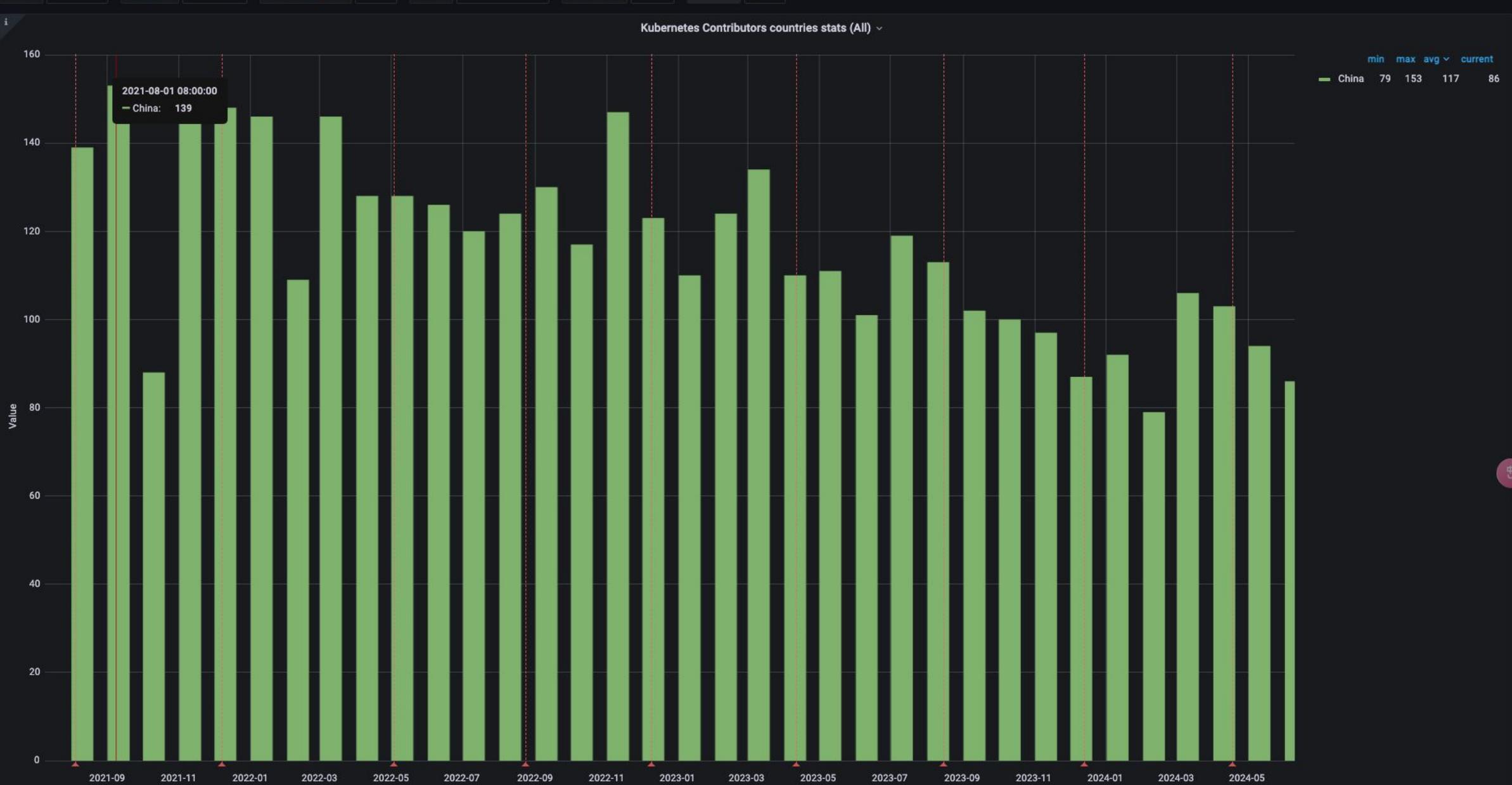
i

## Kubernetes Contributors countries stats (All)



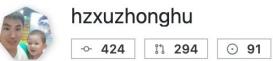


Period Month Countries "China" Repository group All Metric Contributors Cumulative No Releases





## CONTRIBUTOR CARD



hxuzhonghu

424 294 91

809 contributions to 34 repositories

FIRST CONTRIBUTION



kubernetes/kubernetes  
why serviceController run nodeSyncLoop every nod...

Mar 16, 2017

YEARS CONTRIBUTING (7)

2023 2022 2021 2020 2019 2018 +1

REPOSITORIES (34)

kubernetes apiserver website kube-batch +30



## CONTRIBUTOR CARD



feiskyer

1.7k 976 330

3k contributions to 54 repositories

FIRST CONTRIBUTION



kubernetes/kubernetes  
Add hyper container runtime

Aug 24, 2015

YEARS CONTRIBUTING (10)

2024 2023 2022 2021 2020 2019 +4

REPOSITORIES (54)

kubernetes cloud-provider-azure cri-tools +51

Share

Get yours



Thank you for your contributions!



## CONTRIBUTOR CARD



andyzhangx

9.3k 4.3k 647

14.3k contributions to 57 repositories

FIRST CONTRIBUTION



kubernetes/kubernetes  
allow setting of dirMode and fileMode when mounti...

May 2, 2017

YEARS CONTRIBUTING (8)

2024 2023 2022 2021 2020 2019 +2

REPOSITORIES (57)

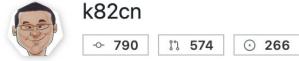
azurefile-csi-driver azuredisk-csi-driver +55



## CONTRIBUTOR CARD



## CONTRIBUTOR CARD



tengqm

1.8k 1.3k 168

3.3k contributions to 13 repositories

FIRST CONTRIBUTION



kubernetes/website  
Issue with /docs/user-guide/horizontal-pod-autosca...

Dec 23, 2016

YEARS CONTRIBUTING (9)

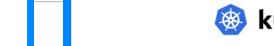
2024 2023 2022 2021 2020 2019 +3

REPOSITORIES (13)

website kubernetes-docs-ko reference-docs +10



## CONTRIBUTOR CARD



## CONTRIBUTOR CARD



kevin-wangzefeng

85 43 10

138 contributions to 15 repositories

FIRST CONTRIBUTION



kubernetes/kubernetes  
bug fix: DOCKER\_OPTS not works when deploying ...

Aug 5, 2015

YEARS CONTRIBUTING (5)

2019 2018 2017 2016 2015

REPOSITORIES (15)

kubernetes +15



## CONTRIBUTOR CARD



## CONTRIBUTOR CARD



windsonsea

1.1k 1.2k 30

2.3k contributions to 10 repositories

FIRST CONTRIBUTION



kubernetes/website  
Some suggestions about Chinese text

May 9, 2022

YEARS CONTRIBUTING (3)

2024 2023 2022

REPOSITORIES (3)

website +3



## CONTRIBUTOR CARD



SataQiu

701 872 24

1.6k contributions to 61 repositories

FIRST CONTRIBUTION



kubernetes-client/java  
modify the type of status field of V1Status from Strin...

Apr 28, 2018

YEARS CONTRIBUTING (7)

2024 2023 2022 2021 2020 2019 +1

REPOSITORIES (61)

kubernetes website kubeadm +58

Share Get yours



Thank you for your contributions!





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# Contributor's Voice

# Difficulties and Challenges



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“(...)Finding a **balance between company business and upstream projects** can be challenging(...)”



Andy Zhang  
@andyzhangx

# Difficulties and Challenges



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“(.....) Lacking sufficient guidance... Moreover, identifying needs and areas where contributions can be made is actually the most challenging part.  
(.....)”



Refigul  
@xuzhenglun

# Difficulties and Challenges



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"Find the field that suits you and solve problems of appropriate difficulty."

"There are communication issues, such as time differences and frequent delays in information."

"Timezone Issue"

"....."

# Gains and Impact



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“(...)The spirit of community is inspiring. I truly believe that ***the more you give, the more you receive***, and this idea really applies to the open source community. (...)”



Terry Tang

# Common Issues in China



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## Company

Balance upstream and company requests

Support for Personal Open Source Involvement

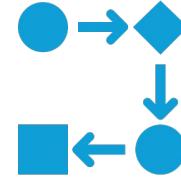


## Individual

Language Barrier

Cultural Differences

Time Zone Issues



## Community

Long Discussion Cycles for Issues and Pull Requests

Maintainers Burnout



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# Tips for new contributors

# What is a contribution?



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- Feature: Draft a KEP/proposal
- Fix a bug or refactor some code
- Fix a CI Failure/Flake(UT, E2E, Job config)
- Write/Translate a Blog
- Report a CVE to [hackerone.com/kubernetes](https://hackerone.com/kubernetes)
- Open an issue for a bug or CI
- Do code review
- Triage an new issue
- Answer a user's question
- Anything that helps others



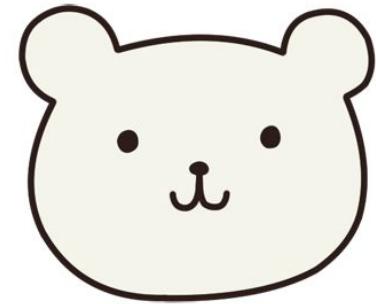
# Kubernetes Community Days Shanghai 2024



Video: <https://www.bilibili.com/video/BV1CD421J7vi/>

# Start Small and Build Confidence

“(.....)Do not avoid doing something just because it seems small. In a project like K8s, sometimes even a change of just one or two lines of code can bring immense value to many people. (.....)”



@zqzten

# Patient, Friendly, Keep going



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"hard to start, easy to continue, **patient** to further."

"The people in the community are very **friendly**. Thank you to those who have participated before, and we welcome newcomers to join."

"The people in the community are very friendly. Thank you to the veterans, and we welcome newcomers to join."

"Community contribution requires **perseverance and passion**."

"Participate boldly."

"Don't be afraid, **just do it**."

"Keep going, **continue** to contribute."

"..."

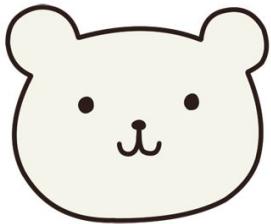
# Thanks for participating in the survey



@william-wang



@terrytangyuan



@zqzten



@andyzhangx



@caohe



@tnqn



@kerthcet



@hwdef



@BSWANG



@calvin0327



@zhangxiaoyu-zidif



@Windsonsea



@carlory



@cr7258



@jonyhy96



@xuzhenglun



@mouuuii



@googs1025

# Kubernetes Panel: A Decade of Evolution and Future Trends



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**Jintao Zhang**  
Ingress Maintainer



**Kevin Wang**  
CNCF TOC & SIG  
Scheduling & SIG  
multi-cluster



**Klaus Ma**  
SIG Scheduling  
ex-Chair  
CNCF TAG-Runtime TL  
CNCF WG-Batch  
co-chair



**Mengjiao Liu**  
WG-Structured-Logging  
Chair  
SIG Docs Chinese  
Approver



**Pengfei Ni**  
SIG Node  
Reviewer



**Qiming Teng**  
SIG Docs TL

📅 Thursday August 22, 2024 15:35 - 16:10 HKT

📍 Level 1 | Hung Hom Room 2



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# Cloud Native Activities in China

# Cloud Native Community Event

(2023.10 - Now)



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GROWING CLOUD NATIVE TOGETHER



SHENZHEN



云原生社区  
Cloud Native Community

2023 云原生 x 金融科技开放日 · 广州站



云原生社区  
Cloud Native Community

2024 云原生技术开放日 · 大连站

\* Non-project-led neutral activities  
(incomplete statistics)

# KCD Transparency Report



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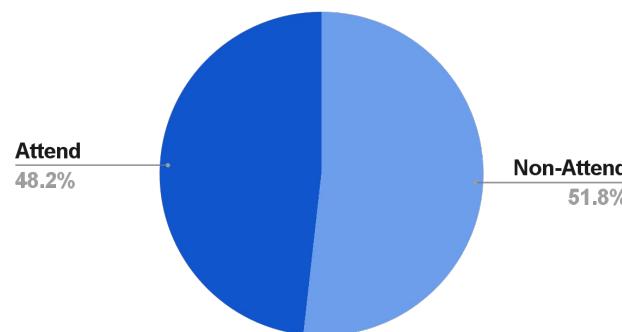


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## KCD Shenzhen 2023

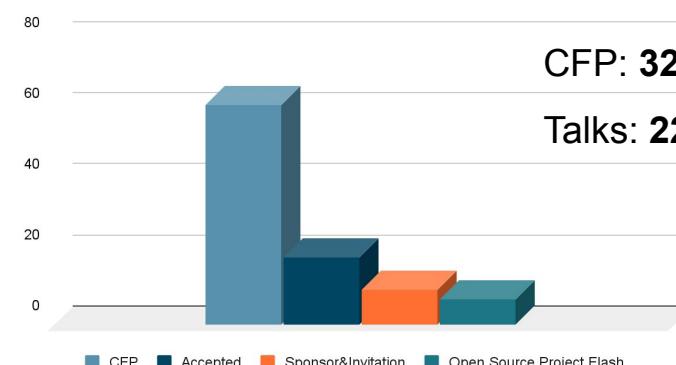
ATTENDANCE STATISTICS



Registry: 365

Attend: 176

TOPIC STATISTICS



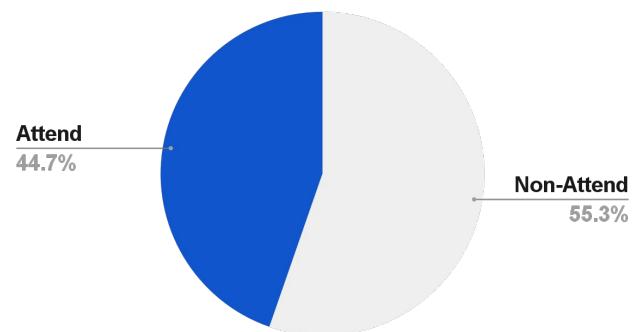
## KCD Shanghai 2024

Registry: 705

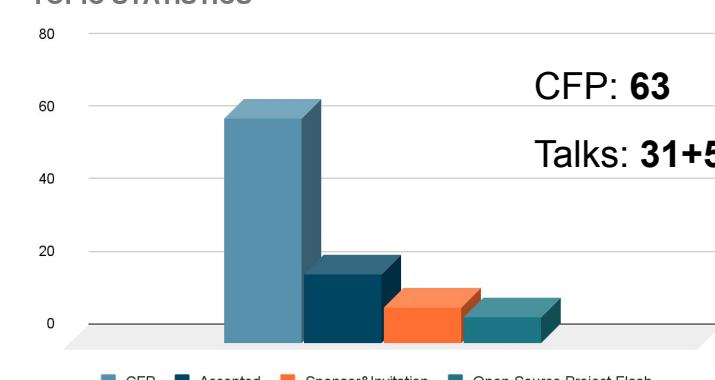
Attend: 315

Online: 4288

ATTENDANCE STATISTICS



TOPIC STATISTICS

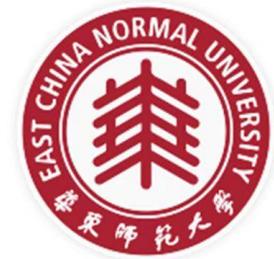


## University Partners

KCD Shenzhen 2023



KCD Shanghai 2024



KCD Shanghai 2024

Cloud Native Novice &  
Open Source Education Forum



# What is KCD



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**Kubernetes Community Days (KCD)** was initiated by Cloud Native Computing Foundation (CNCF) and is jointly organized by local CNCF ambassadors, CNCF employees, and CNCF members across the world.

Organizers

Zhenyu Zheng openEuler Community Operating Manager	Kevin Wang HUANIECLOUD Technical Expert CNCF TOC Member	Iceber Gu DacCloud Cloud Native R&D Engineer CNCF Ambassador

Betty Zheng Amazon Web Services Senior Developer Advocate	Yuxuan Pan China Mobile Cloud Technical Expert Kosmos Founder	Pengcheng Tang Volcano Engine Software Architect Katalyst Maintainer

Organizers

Devin Geng Tencent Open Source Expert	Iceber Gu DacCloud Cloud Native R&D Engineer	Keith Chan Linux Foundation APAC VP of APAC, CNCF

Li Ye Shopee Elastic Compute Platform Engineer	Miley Fu WasmEdge DevRel Founding Member CNCF Ambassador	Shushan Chai AmGroup Software Engineer   Maintainer Of KusionStack

Organizers

Kevin Wang HUAWEI CLOUD Lead Of Cloud Native Open Source Team	Jinghe Ma JIHU GitLab LFAPAC Open Source Evangelist	Xiaohui Zhang Fiomesh Senior Architect, Technical Evangelist

Organizers

Feynman Zhou Microsoft Azure Product Manager	Iceber Gu DacCloud Clusterpedia Founder & Contained Maintainer	Sheng Wu Tetrate Observability Team Lead & Founding Engineer

KCDs are currently being actively organized worldwide, gathering end users, contributors, and technical experts from the open source community in the cloud native field. This series of localized activities will help grow the Kubernetes Community and spread cloud native technology more widely among end-users in different industries.

Paco Xu DacCloud Architect	Kevin Wang HUAWEI CLOUD Lead of cloud native open source team	Guo Jin CIB Cloud-Native Architect
CHAO TANG OPPO Chief Architect of Cloud	Ma Li TFB Department Manager	

# How to Apply a KCD in 2025



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## KCD 2.0 is Coming

No more than 30 KCDs will be approved for the calendar year. 10 APAC + Oceania

KCD Program applications run once a year

### Build your team of organizers

- 3 organizers, each should be from different organizations.
- At least one CNCF Ambassador or CNCF Project Maintainer.

### Select a city

- Cannot be in the same city as this year's CNCF or LF hosted event
- 2 months apart from KubeDay and KubeCon
- The majority of organizers must live in, or near the KCD location.

### Plan the size of your event

- KCDs should be no larger than 500 people
- If you are new at this, some organizers suggest getting your feet wet with a one-day event, or two half-day events

### Find willing sponsors in advance

IMPORTANT ROUND DATES	2025 APPLICATIONS	2026 APPLICATION PROJECTION
Applications Open	Monday, August 5, 2024	April 2025
Applications Close	Wednesday, September 11, 2024, 11:59 pm PST	May 2025
Application Notifications	Week of September 22, 2024	Mid June 2025
KCDs Announced	End of September 2024	End of June 2025



### CNCF Supports

- Guidance
- Event Platforms
- Promotion
- Gifts
- Credly Badges
- Funds
- etc.

# Key to Host a KCD



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- Good topics
- Diversity Lineup
- Active communication with CNCF KCD Group
- Rational plan for the organization (three months in advance is recommended)
- Interesting format
- Sufficient funds
- Suitable venue

# How to get involved in KCD



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## Get KCD in preparation

- KCD Github Issues



- WeChat public account



# How to get involved in KCD



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## Enterprise

- Funding & Venue Sponsorship

## Individual

- Submit a topic and become a **Speaker**
- Join the topic **review committee**
- Become a **volunteer**
- **Register & attend** offline meetings

## Open Source Organization & Community

- **Sponsorship**
- **Community Cooperation** (eg. Gift & Promotion)

## University

- **Partners**

Encourage students to participate in open source communities

# Thank you to our Chinese contributors



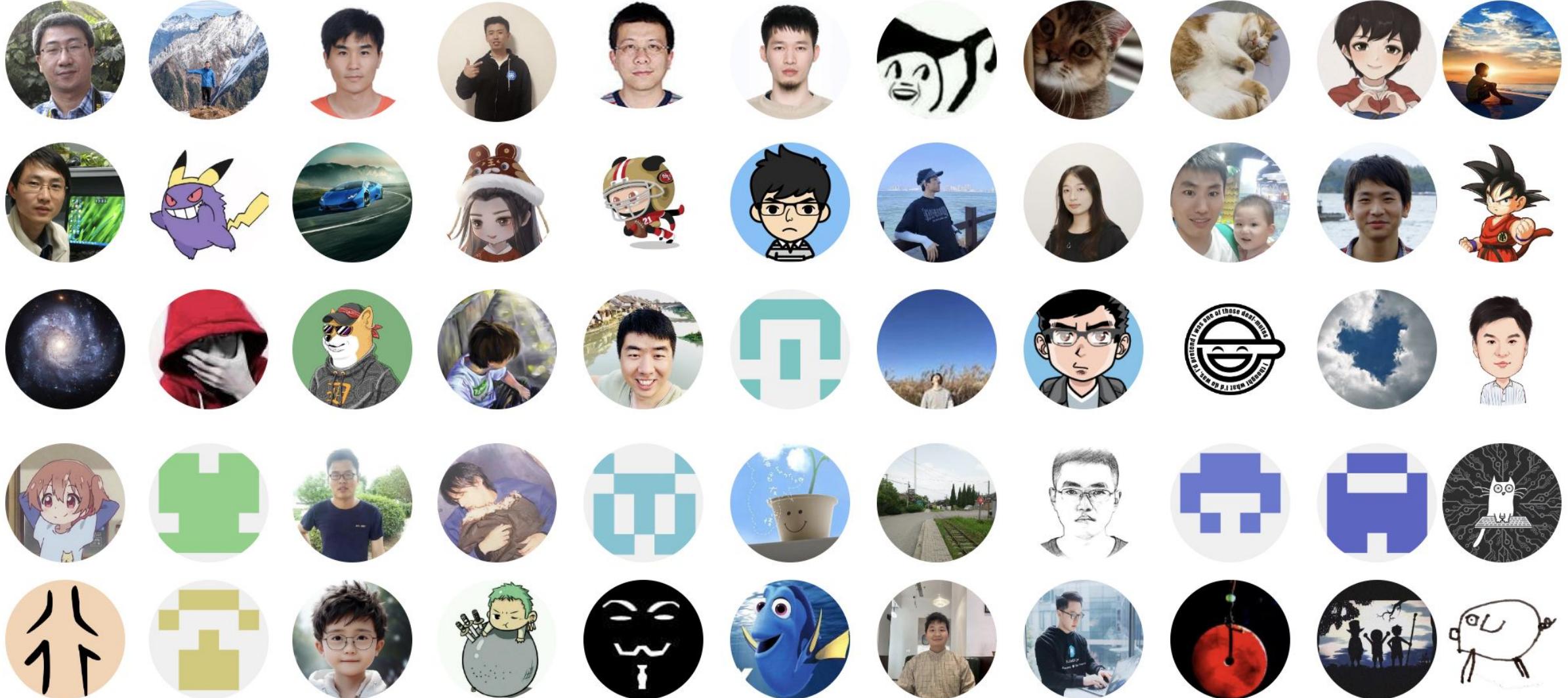
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