

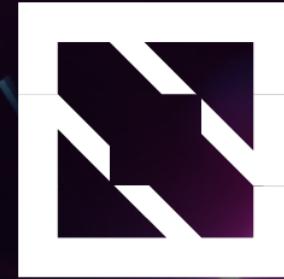


# KubeCon

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China 2024



# CloudNativeCon





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# 主题演讲：中国的 Kubernetes 社区和云原生活动

徐俊杰

蔡威

# 个人介绍

## 徐俊杰

- Kubernetes 指导委员会成员
- 主要负责 kubeadm 和 SIG-Node
- Github: [pacoxu](#)
- ❤️ → ⚽ & PUBG



## 蔡威

- CNCF 大使
- Clusterpedia 发起人
- Containerd 维护者
- KCD 上海 2024 组织者
- KCD 深圳 2023 组织者
- KCD 北京 2023 组织者
- Github: [Iceber](#)



# d.run 产品全景图

## AI 开放生态平台





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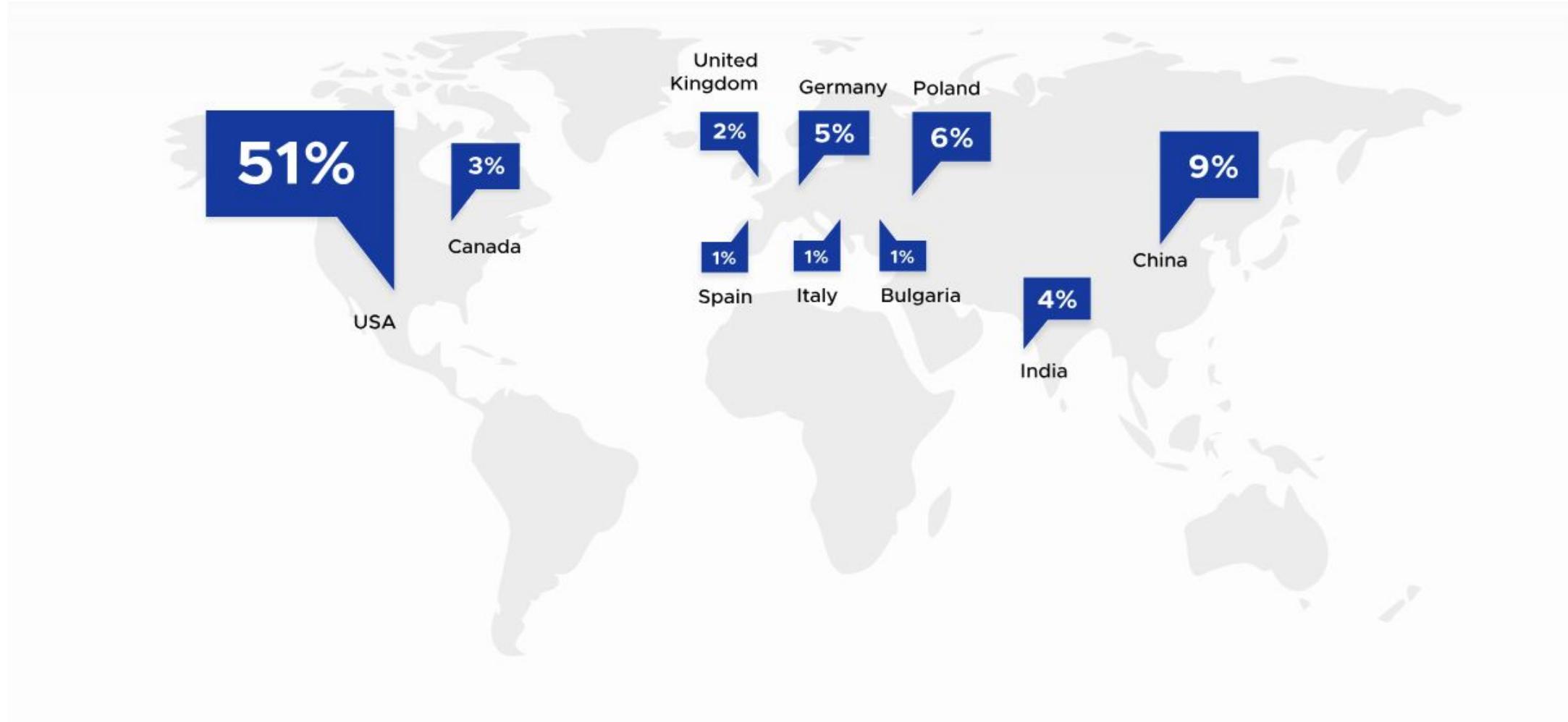
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# 中国 Kubernetes 社区贡献

## 目前社区贡献的全球分布

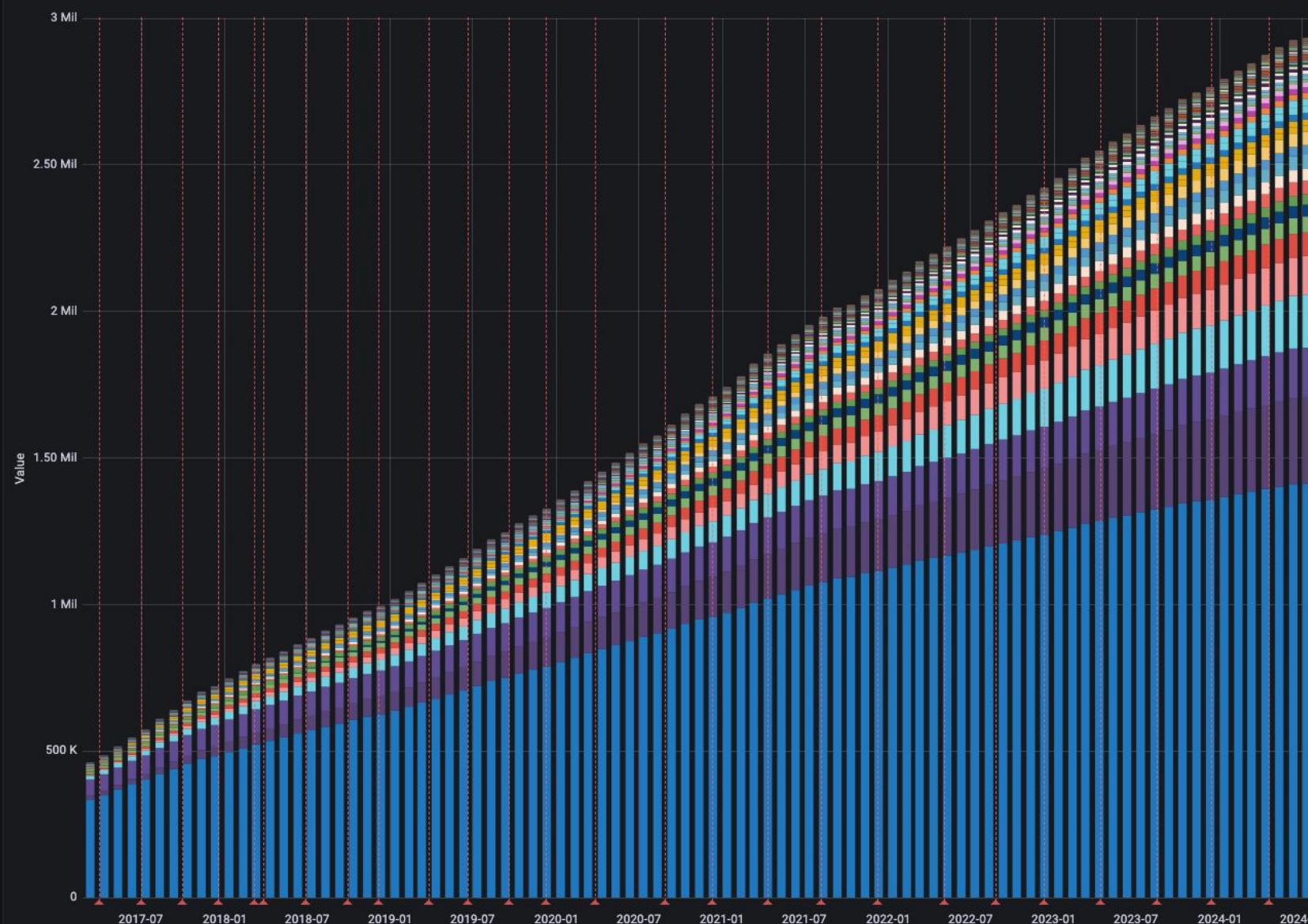




Period Month Countries All Repository group All Metric Contributions Cumulative Yes Releases



## 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

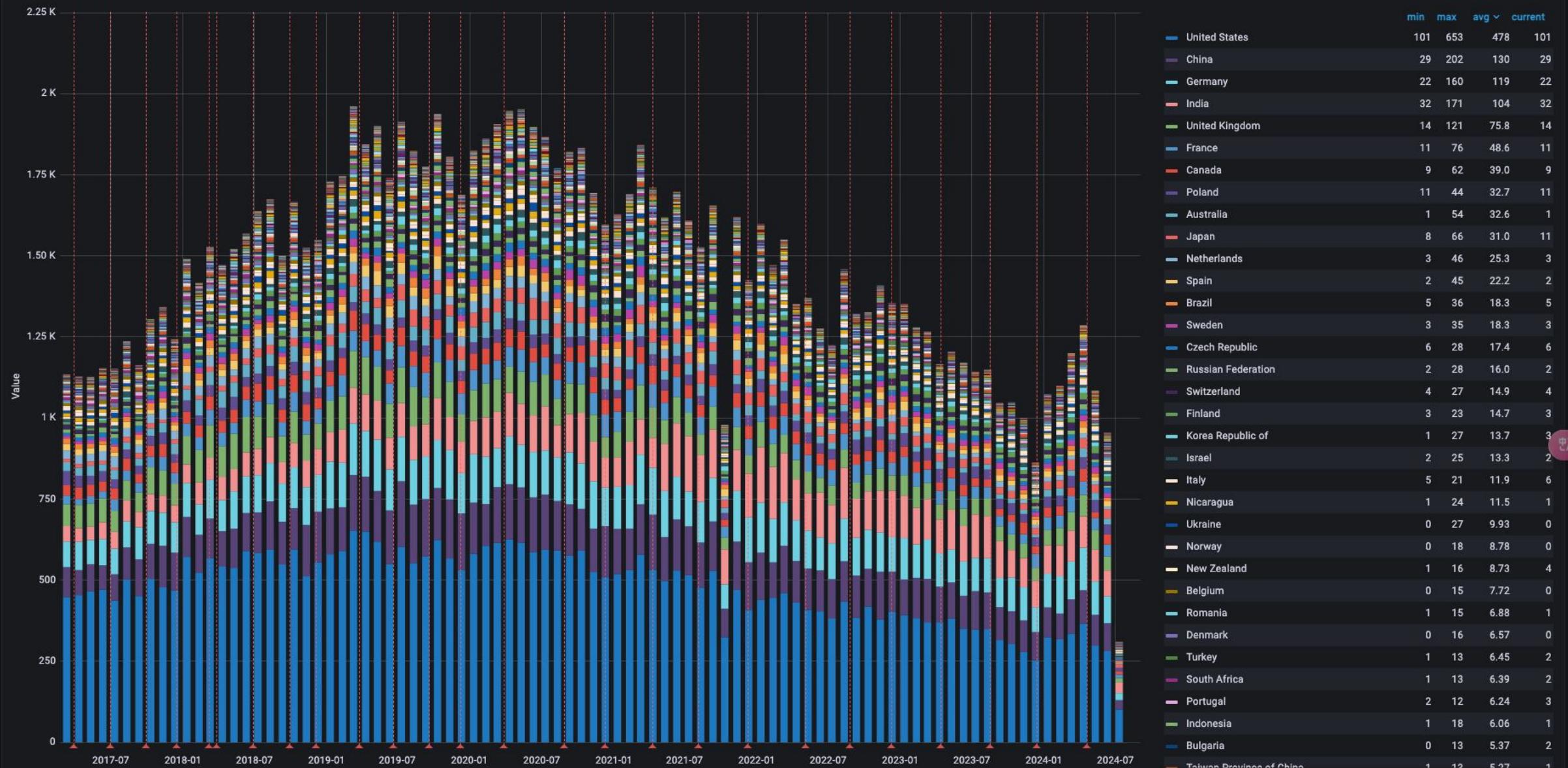


Period Month Countries All Repository group All Metric Contributors Cumulative No Releases



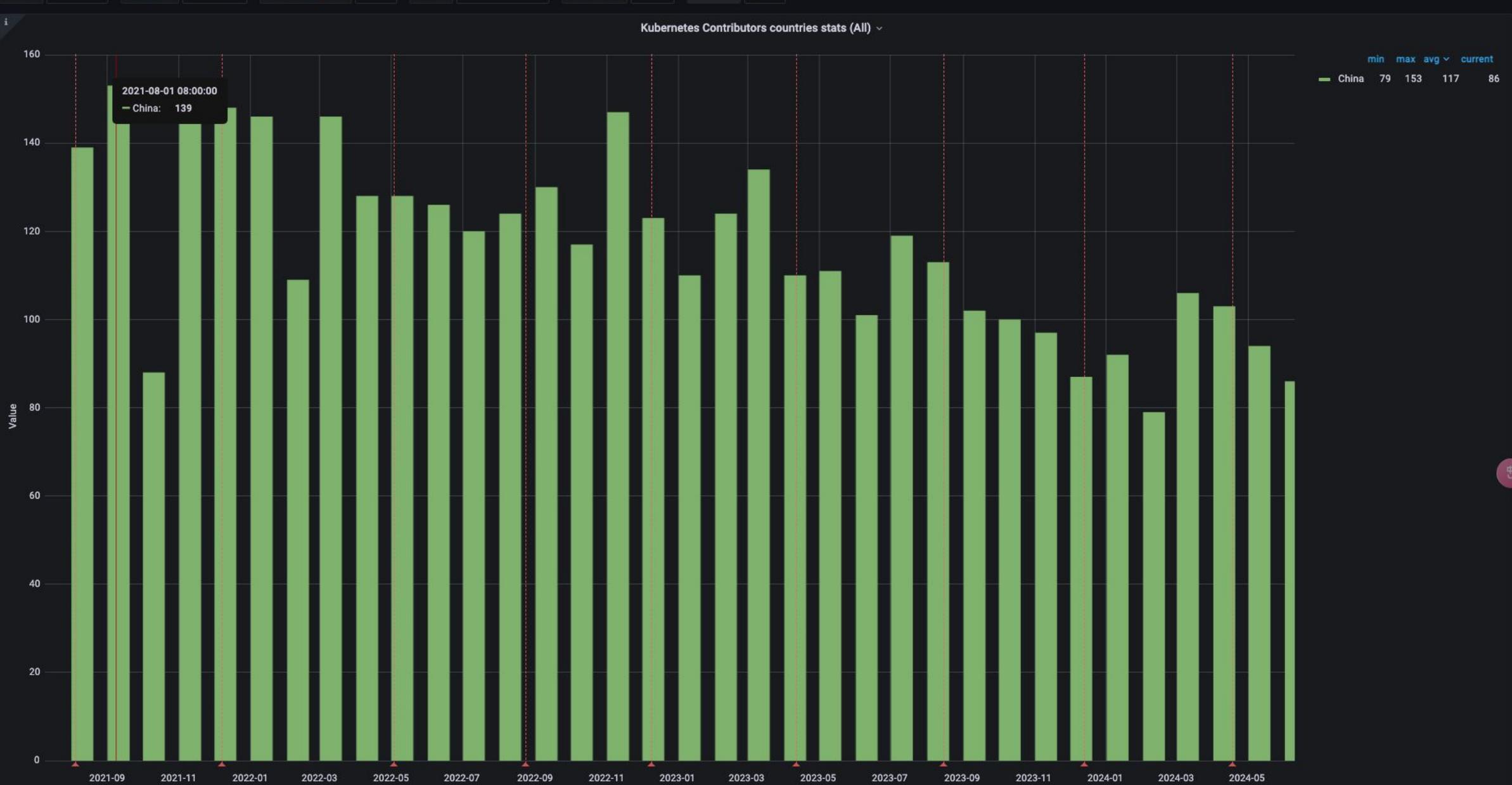
i

## Kubernetes Contributors countries stats (All)





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





## CONTRIBUTOR CARD

hzxuzhonghu  
↳ 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

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## 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

yue9944882  
↳ 1k ⚡ 841 ⚡ 92

2k contributions to 42 repositories

FIRST CONTRIBUTION

⌚ kubernetes/kubernetes  
Allow modification of existing pod labels on the fly v...  
Nov 27, 2017

YEARS CONTRIBUTING (8)

2024 2023 2022 2021 2020 2019 +2

REPOSITORIES (42)

java apiserver-builder-alpha kubernetes +39

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## 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 kubelet kubeadm +15



## CONTRIBUTOR CARD

kerthcet  
↳ 323 ⚡ 321 ⚡ 112

756 contributions to 28 repositories

FIRST CONTRIBUTION

⌚ kubernetes/kubernetes  
refactor unreserve test  
Jul 12, 2021

YEARS CONTRIBUTING (4)

2024 2023 2022 2021

REPOSITORIES (28)

kubernetes kueue lws enhancements +24

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## 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 (10)

website kubernetes +10



## 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

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# 贡献者的声音

# 困难和挑战



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“(...)如何平衡公司需求和上游是非常有挑战的(...)"



Andy Zhang  
@andyzhangx

# 困难和挑战

“(.....)缺乏一定的指引 ...  
此外，发现需求和可以贡献的点反而是最难的。(.....)”



Reficul  
@xuzhenglun

# 困难和挑战



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“找到适合自己的领域，解决适合自己 难度的问题。”

“沟通问题，有时差，信息滞后比较多。”

“时区问题。”

“  
.....”

# 收获和影响



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“(...)社区的精神令人鼓舞。我非常相信，你付出得越多，你获得的也会越多，这种想法在开源社区中确实适用。(...)”



@terrytangyuan

# 国内参与社区最常遇到的一些问题



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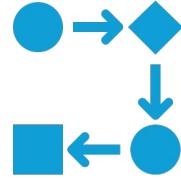
## 公司

平衡上游和公司需求  
公司对个人参与开源的支持情况



## 个人

语言障碍  
文化差异  
时区问题



## 社区

问题、Pull Request 讨论周期长  
社区维护者缺少或者太忙



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# 给贡献者新人的建议

# 什么是贡献？



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- 编写 KEP/设计提案
- 修复一个 bug 或重构一些代码
- 修复 CI 故障/Flake(单元测试、端到端测试、CI 任务配置)
- 撰写/翻译博客
- 向 [hackerone.com/kubernetes](https://hackerone.com/kubernetes) 报告 CVE
- 给 bug 或 CI 问题创建 Issue
- 进行代码审查, 提出建议
- 给问题打上正确的标签
- 回答其他用户的疑问
- 社区中, 任何有助于他人的行为



# Kubernetes Community Days Shanghai 2024



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

# 勿以事小而不为



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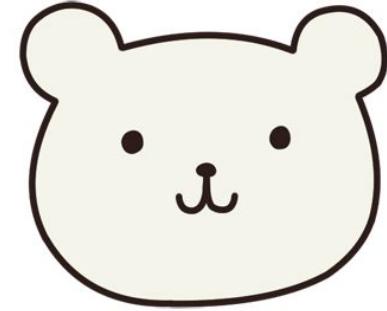


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“(.....)勿以事小而不为，在 K8s 这样的项目里，有时候一两行代码的改动都能给许多人带来巨大的价值。(.....)”



@zqzten

**“hard to start, easy to continue, patient to further.”**

“社区的人很友善，谢谢老人，也欢迎新人参与。”

“社区贡献需要的是持之以恒以及热情。”

“大胆参与。”

“不怕，尽管做。”

“加油，持续耕耘。”

“  
.....”

# 感谢参与问卷的贡献者



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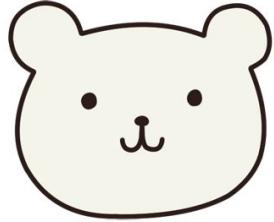
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@william-wang



@terrytangyuan



@zqzten



@andyzhangx



@caohe



@tnqn



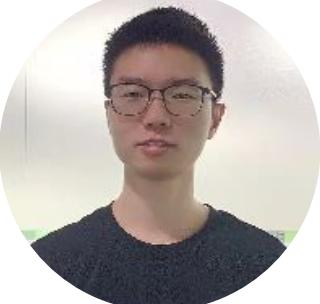
@kerthcet



@hwdef



@BSWANG



@calvin0327



@zhangxiaoyu-zidif



@Windsonsea



@carlory



@cr7258



@jonyhy96



@xuzhenglun



@mouuuii



@googs1025

# Kubernetes 圆桌: 十年演变与未来趋势



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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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# 国内云原生活动

# 云原生活动 (2023.10 至今)



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GROWING CLOUD NATIVE TOGETHER



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

\* 非项目主导的中立活动(不完全统计)

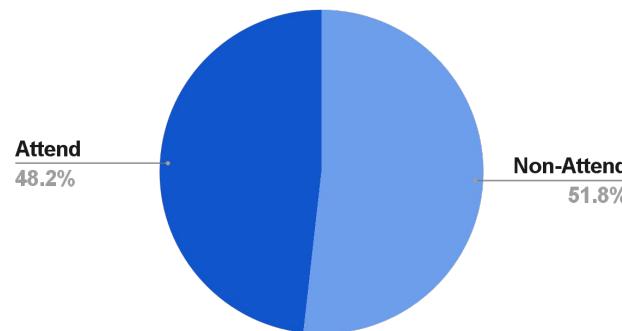
# KCD 透明度报告



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## KCD 深圳 2023

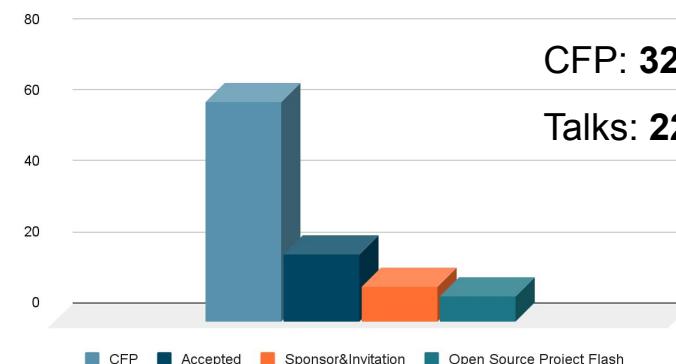
ATTENDANCE STATISTICS



注册: 365

出席: 176

TOPIC STATISTICS



CFP: 32

Talks: 22

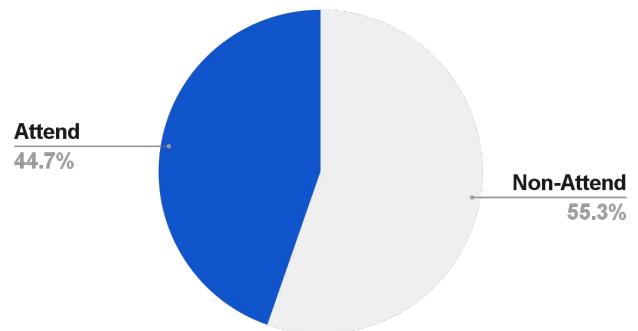
## KCD 上海 2024

注册: 705

出席: 315

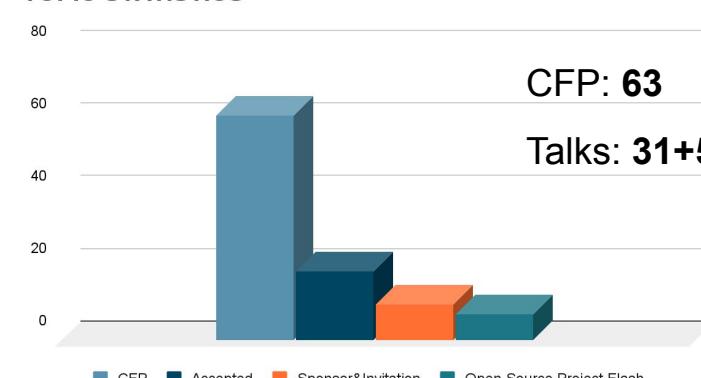
线上: 4288

ATTENDANCE STATISTICS



TOPIC STATISTICS

TOPIC STATISTICS



CFP: 63

Talks: 31+5

# KCD & University



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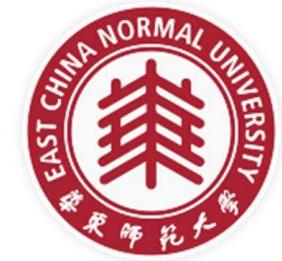
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## 合作高校

KCD Shenzhen 2023



KCD Shanghai 2024



KCD 上海 2024

云原生新手 & 开源教育论坛



# 什么是 KCD？



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Kubernetes Community Days (KCD) 活动由 CNCF 发起，并由全球的本地 CNCF 大使、CNCF 员工以及 CNCF 成员共同组织。

Organizers

Zhenyu Zheng openEuler Community Operating Manager	Kevin Wang HUANICLOUD Technical Expert CNCF TOC Member	Iceber Gu DaoCloud 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 DaoCloud 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

目前，KCD(Kubernetes Community Days)在全球范围内非常火爆，汇聚了来自云原生领域开源社区的终端用户、贡献者和技术专家。这系列本地化活动将有助于推动Kubernetes社区的发展，并在不同产业的终端用户中更广泛地传播云原生技术。

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 DaoCloud Clusterpedia Founder & Contained Maintainer	Sheng Wu Tetrate Observability Team Lead & Founding Engineer

Paco Xu DaoCloud 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	

# 2025年如何申请举办 KCD？



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## KCD 2.0 到来

每年最多批准 30 个 KCD 举办, 其中亚太和大洋洲 10个名额。

KCD 计划申请每年一次

### 组建组织者团队

- 至少 3名组织者, 每个人应来自不同的组织或公司。
- 至少有一名 CNCF 大使或者 CNCF 项目维护者。

### 选择城市

- 不能与今年 CNCF 或 LF 主办的活动在同一个城市。
- 与本区域/国家的 KubeDay 和 KubeCon 时间至少间隔 2个月。
- 大多数组织者居住在 KCD 的城市或者附近。

### 活动规模

- KCD 活动不应该超过 500人(现场规模)
- 如果你是第一次组织, 建议从一天的活动或两个半天的活动开始, 积累经验。

### 提前寻找愿意赞助的企业

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 支持

- 指导
- 活动平台
- 宣传
- 礼品
- Credly 徽章
- 资金
- ...

# 举办 KCD 的关键要素



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- 优质的议题
- 多样化的讲者阵容
- 与CNCF KCD 团队的积极沟通
- 完美的组织&举办规划(建议提前三个月)
- 有趣的活动形式
- 足够的资金
- 合适的场地

# 如何参与 KCD？



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## 准备启动 KCD 活动

- KCD Github Issues



- 微信公众号 CNCF



# 如何参与 KCD?



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## 企业

- 资金与场地赞助

## 个人

- 提交议题并成为演讲者
- 加入议题评审委员会
- 成为志愿者
- 注册并参加线下会议

## 开源组织和社区

- 赞助
- 社区合作 (比如. 奖品 & 宣传)

## 大学

- 高校合作

鼓励学生参与开源社区贡献和社区活动

# 感谢中国贡献者的贡献



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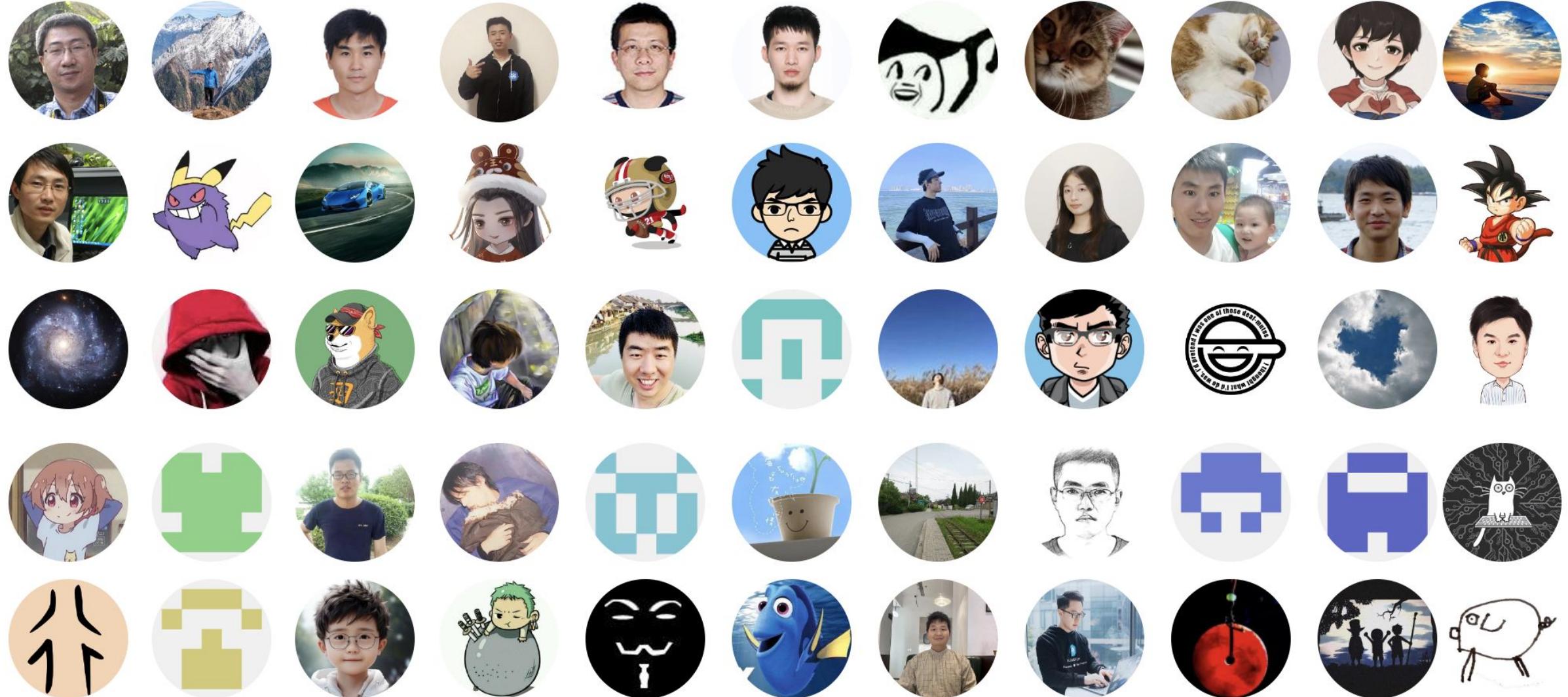


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