Buenos Aires, Argentina 2023

PERCONA UNIVERSITY

Open Source Databases Meetup

In partnership with



Welcome

Peter Zaitsev, Founder at Percona 20 October 2023







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Michael Ritossa

your friendly Percona Sales Person

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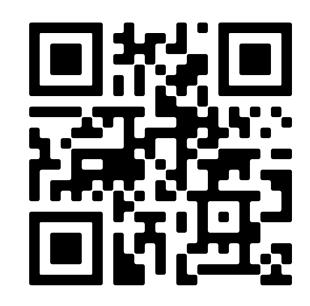
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Bring Percona University to Your City!





Check it out





Cloud of Freedom or Cloud of Serfdom ?



My Prospective

- Involved in Open Source since late 1990s
- Early Staff member of MySQL AB
- Founder, until recently CEO at Percona
- Investor, Advisor, Mentor in Open Source Businesses
- Open Source Advocate

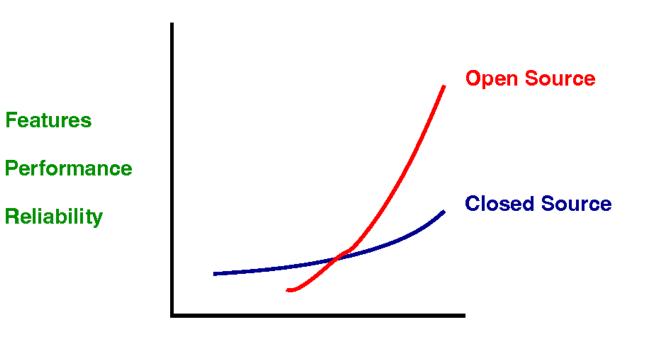
Better

Everything being Equal Open Source is a better choice

Investment

It is smarter to invest in your resources in making Open Source better rather than paying for Proprietary Software

Open Source and Proprietary



Rise of Open Source



https://momjian.us/main/writings/pgsql/forever.pdf

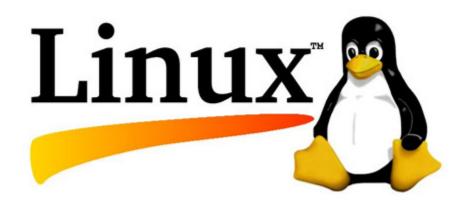


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Have we been here before ?







open Source in the Cloud

But do not Cloud Vendors just make Open Source Easier ?

Old Strategy

"Embrace, extend, and extinguish"

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Usability and Ease of use

New Frontier for the competition

Cloud only Skills

Increasingly "Open Source Experts" have only Managed Cloud Solutions Skills

Cloud Vendor Push

Using their Proprietary or Managed solutions as Best Practice

1

Increasing Price Difference for such Managed Solutions

2

Embracing Scaling by Credit Card



Venture Funded Open Source

Often Abandon Open Source Licenses to Create Monopoly Protect themselves from Unfair Competition from the Cloud.

Community Open

Source

Largely Embraces adoption by Cloud Vendors as it increases user base







Focus on last decade was growth at any cost

Pushing as much on third parties (Cloud Vendors) makes sense No resource to put on Open Source requiring "elbow grease"

Growth at any Cost

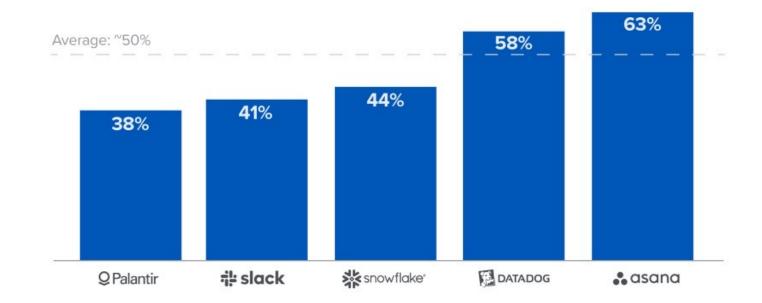
Subsidized Cloud

First does of Heroin is Free



Things are Changing

Estimated Annualized Committed Cloud Spend as % of Cost of Revenue



Source: Company S-1 and 10K filings

https://a16z.com/2021/05/27/cost-of-cloud-paradox-market-cap-cloud-lifecycle-scale-growth-repatriation-optimization/

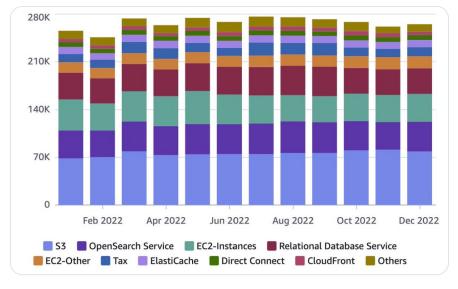


37Signals leaving the cloud

DHH 📀 @dhh

We spent \$3,201,564.24 on cloud in 2022 at @37signals, mostly AWS. \$907,837.83 on S3. \$473,196.30 on RDS. \$519,959.60 on OpenSearch. \$123,852.30 on Elasticache. This is with long commits (S3 for 4 years!!), reserved instances, etc. Just obscene. Will publish full accounting soon.

...



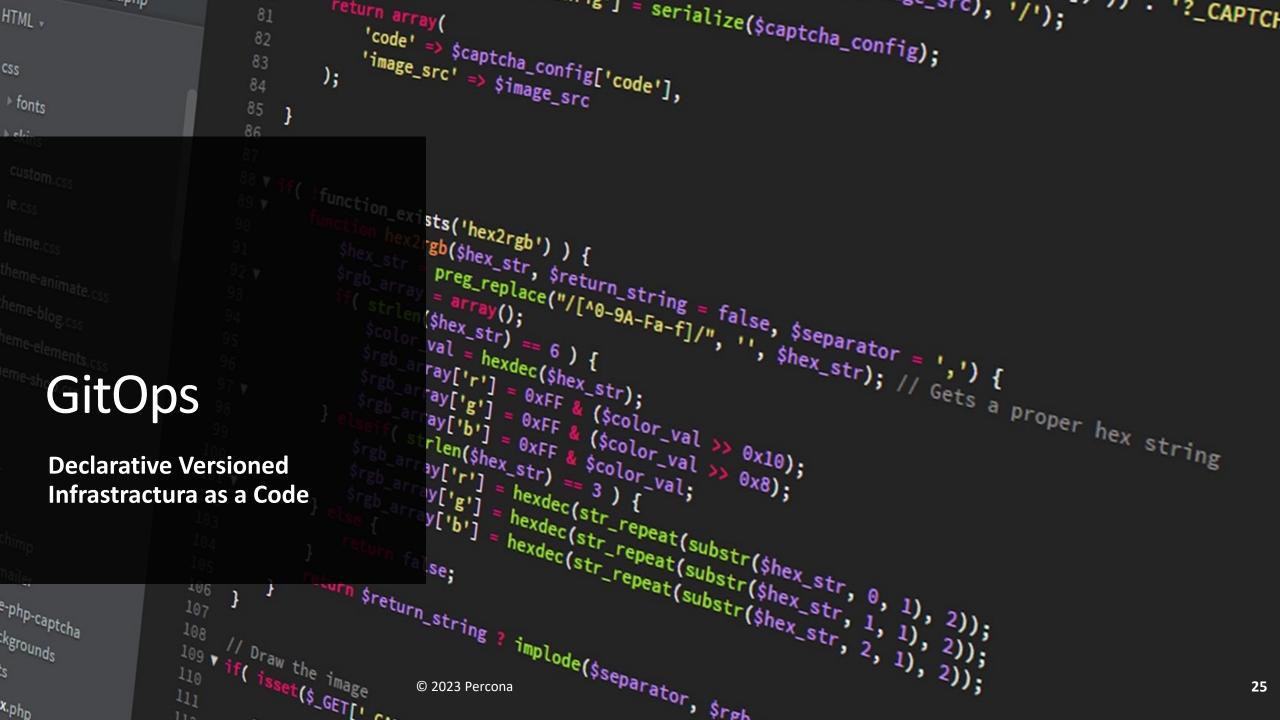
7:08 AM · Jan 12, 2023 · 717K Views

341 Retweets 119 Quote Tweets 2,488 Likes

https://twitter.com/dhh/status/1613508201953038337

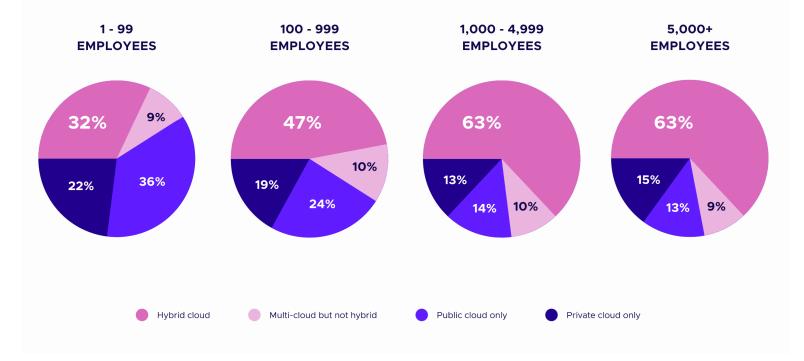


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Hybrid Cloud

Which of the following combinations of data center and cloud architectures does your organization use? (By organization size)



https://www.cncf.io/reports/cncf-annual-survey-2022/



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Open Source Catches Up Again



- Lock-in with Cloud Vendor
- Use Proprietary Solutions
- Highly Differentiated Cloud

aws

- Hostage
- No Vendor Choice



- Freedom to Run Anywhere
- Use Open Source
- Cloud Is Commodity
- Customer
- Choice of Vendors

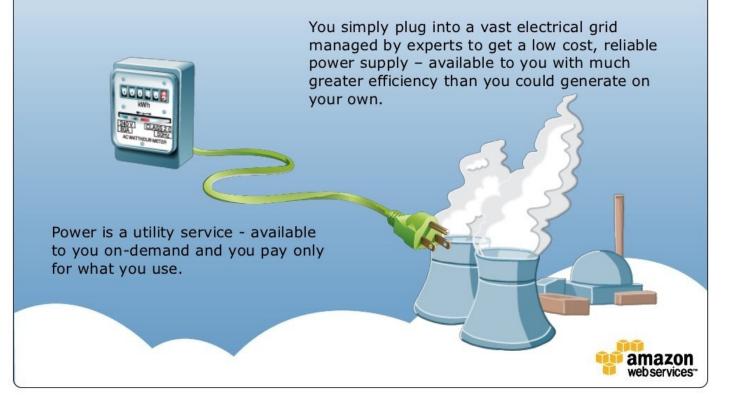




Giving Cloud Its Originally Intended Role of Commodity Infrastructure

What is Cloud Computing?

An analogy: think of electricity services...





Smart API – Kubernetes





DOK Community



Dok Community

https://dok.community/

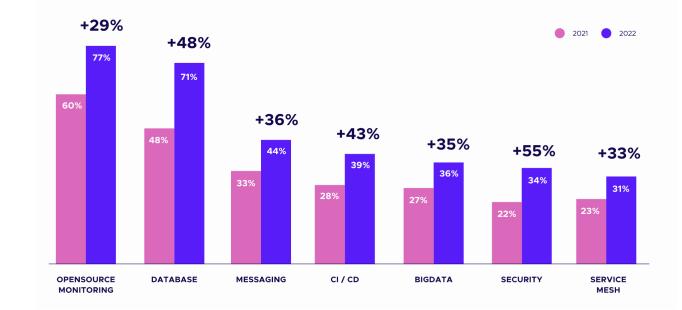


Adoption Areas

KUBERNETES GROWTH AREAS

Focusing on non-application workloads, enterprises used an increasing variety of technologies. This reflects the need to enhance Kubernetes with better observability, security, and service-to-service communications. Other technologies enable specific use cases like CI/CD tools or databases.

Across all categories, open source projects rank among the most frequently used solutions.



https://www.cncf.io/reports/cncf-annual-survey-2022/



Kubernetes Powers many DBaaS



















Databases

Data Has Gravity

Hard to Move

Attracts/Pulls other Applications

Creates More Severe Vendor Lock-In

Should be your focus in Achieving your Freedom





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Mission Critical Open Source Base Database Software



PERCONA Distribution for MySQL PERCONA

Distribution for

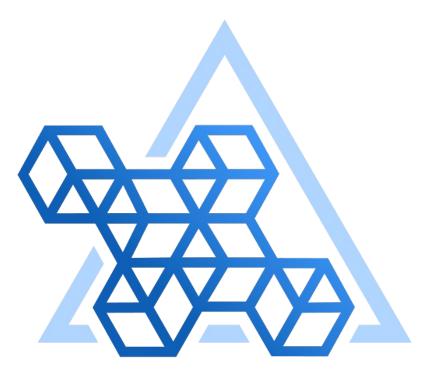
PostgreSQL

PERCONA

Distribution for MongoDB



"Operators" to run them on Kubernetes



PERCONA

Kubernetes Operators Observability and Simplified Management



Monitoring and Management Percona Everest – Open Source DBaaS Powered by Kubernetes

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Everest Product Documentation

https://docs.percona.com/everest/



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Call For Action



Embrace Open Source in the Cloud



Invest in Making it Better



Spread the World





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