

PERCONA

UNIVERSITY

MARCH 11 BANGKOK, THAILAND

In collaboration with:  solonica

 coroot :~#

 Altinity

 FOSS
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Welcome



Peter Zaitsev,
Founder at Percona
Mar 11, 2026

In collaboration with:  solonica

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Special
Thanks
to our
Partners and
Organisers

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ORGANISERS



VITALIJ POGURELSKIJ



DEEP PANJABI



PERCONA
UNIVERSITY

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Bring Percona University to Your City!



WE ARE HIRING

We are **hiring**.
Check our openings.



Current openings include:

- Senior Software Engineer (PostgreSQL)
- Support Engineer (PostgreSQL)
- Platform Engineer
- ...and more!



State of Open Source Databases



In collaboration with:  solonica

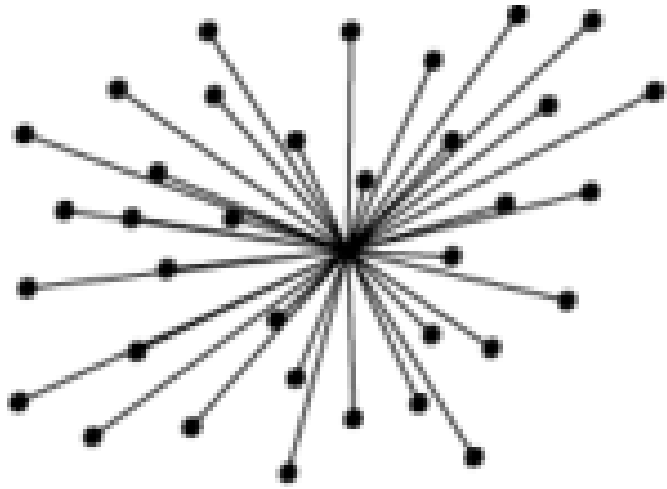
 coroot :~#

 Altinity

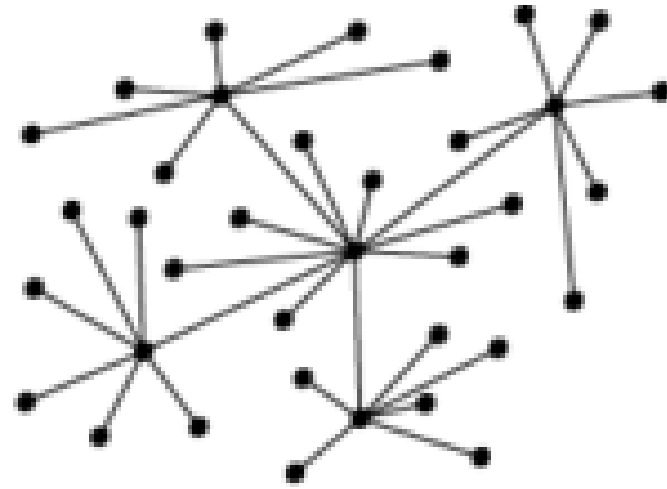
 FOSS
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A glowing lightbulb is the central focus, set against a background of a sunset or sunrise. The sky transitions from a deep blue at the bottom to a warm orange and yellow at the top. The lightbulb is illuminated from within, casting a soft glow. The word "Innovation" is written in a clean, white, sans-serif font across the middle of the image. On the left side, there is a vertical orange bar, and on the right side, there is a vertical white bar.

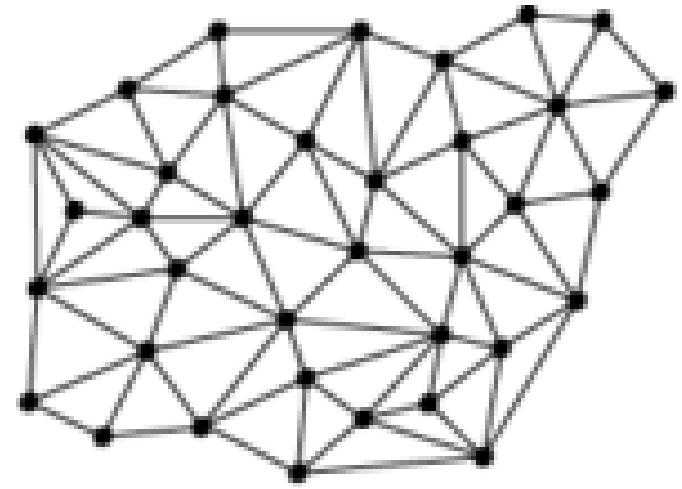
Innovation



centralised



decentralised



distributed


Distributed Databases



Separation of Storage and Compute

Serverless



A pink winged unicorn with a rider on a beach. The unicorn is pink with large, light pink wings. It has a yellow and red mane and a long, flowing pink tail with a yellow and red tip. The rider is a blonde woman with a crown, wearing a green and white dress. They are standing on a sandy beach with waves in the background. The text 'HTAP – Hybrid Transactional Analytical Processing' is overlaid on the image in white.

HTAP – Hybrid Transactional Analytical Processing



Data Pipelines

Multiple Databases

Microservices

Developers Authority

Cloud



**Not just Relational
Any More**



Time Series



Graph



Data Structures

Different Models



Multi-Model

Some Databases Support Multiple Data Models, Some even Talk Different Languages/Protocols

AI and Data and Databases



Storage of the data for AI Training



In Database Processing, Embedding, Vector Search, ML



Natural Language Interfacing (MCP)



AI for Operations, “AI DBA”



AI for Development



Analyses and Visualizations



Vector Search

**Technology Supporting building
applications which use AI**



AI Algorithms do not work with words and Images inside



They work with Vectors



Objects encoded to Vector form called "Embeddings"



Finding Similar Vectors is a key task



Traditional Database Algorithms do not handle it well

What's Up
with Vectors

<https://manticoresearch.com/blog/vector-search-in-databases/>



Oracle Autonomous Database 2017



Parallel with “self driving cars”



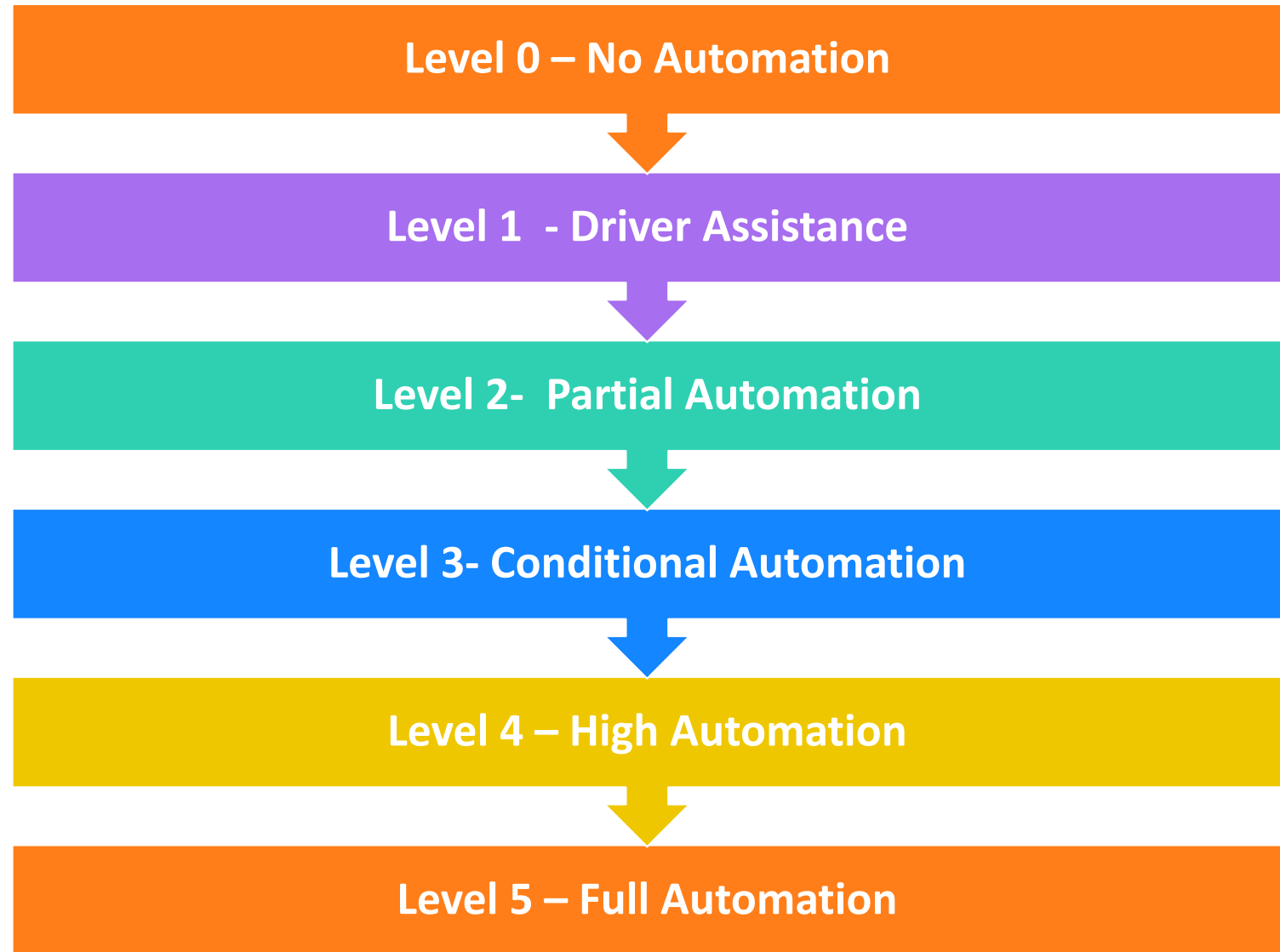
**Self Provision, Self Tune, Self Patch, Self Secure,
Self Repair**



**Goal: Eliminate Human DBAs for routine
Operations**

**Self Driving
Database**

Levels of Self Driving (for Cars)





Peter Zaitsev  • You

Entrepreneur | Driving Success with MySQL, MariaDB, MongoDB & PostgreSQ...

[Visit my website](#)

1mo • 



Would you trust AI to fully "Drive" your database for you today ?

You can see how people vote. [Learn more](#)

Yes

5%

No

95%

376 votes • Poll closed

   24

14 comments • 6 reposts

What Is the Biggest Factor Impacting Open Source Now?

Many will Say:
Cloud



**Maximize and
Simplify
Adoption**

**Change
Opportunities
for Monetization**

Cloud Impact

A close-up portrait of Marten Mickos, a man with short dark hair and blue eyes, wearing a light-colored suit jacket and a white shirt. He is looking directly at the camera with a slight smile. The background is a plain, light gray color.

Remember...

**Marten Mickos: "Open
Source Is Not a Business
Model"**

Open Source Ownership and Governance

- Foundation Driven (Multiple Vendors)
- Single Vendor Driven



**CLOUD HELPS TO
ACCELERATE ADOPTION**



**CLOUD CHANGES WHO
CAPTURES THE VALUE**

Foundation Based Open Source



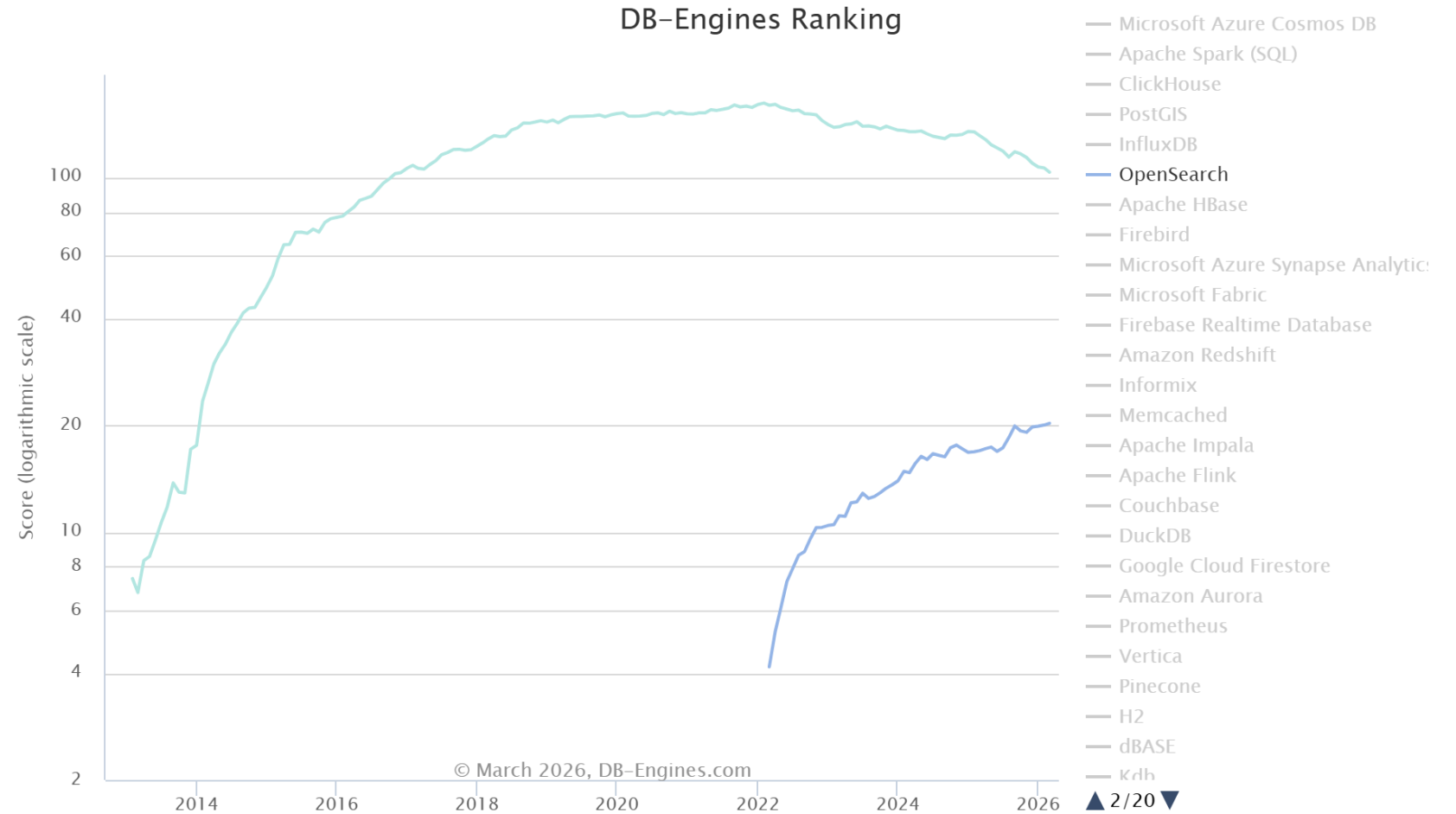
Single Vendor

- Tend to Be Venture Funded or Public Companies
- Feared of Competition with Cloud Vendors

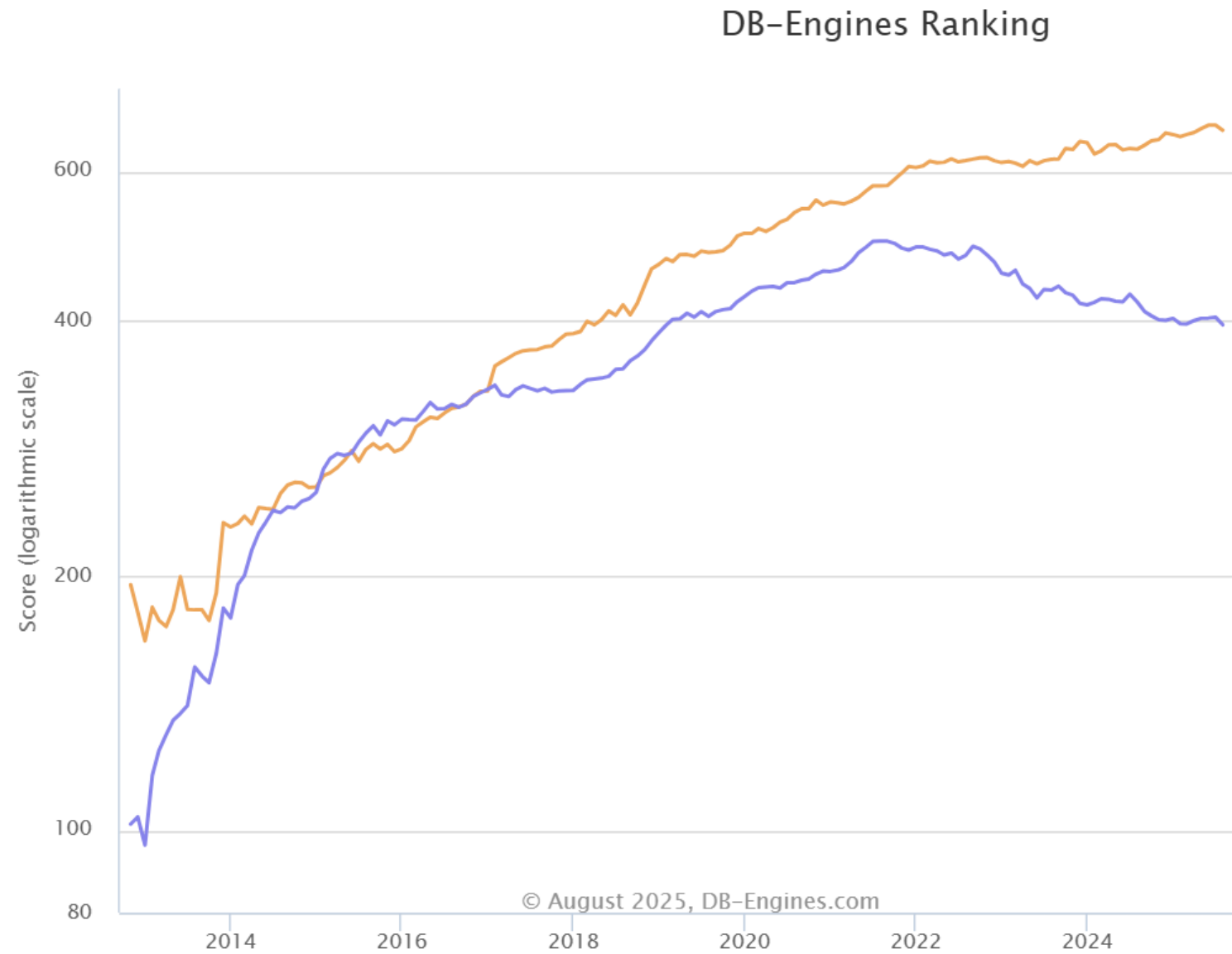
Fully or
Partially
Abandoning
Open Source
Licenses



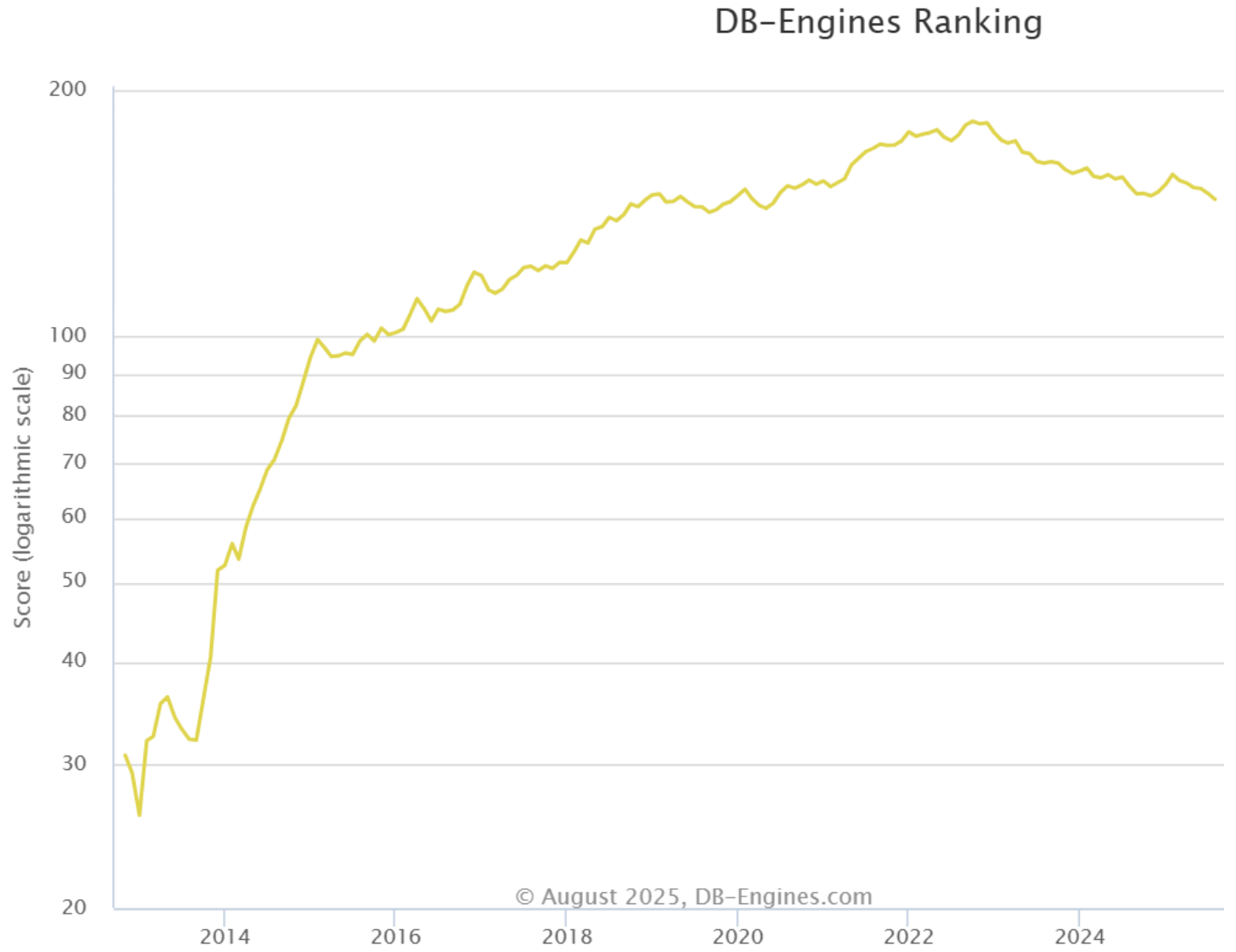
Elastic vs OpenSearch after Licence Change



MongoDB vs PostgreSQL



Redis



Linux Foundation is Stepping Up!

 SIGN IN / UP

The Register®

DATABASES

Linux Foundation marshals support for open source alternative to Redis

7 

Follows the vendor's decision to overhaul licensing of the popular cache database

 [Lindsay Clark](#)

Wed 3 Apr 2024 // 11:15 UTC

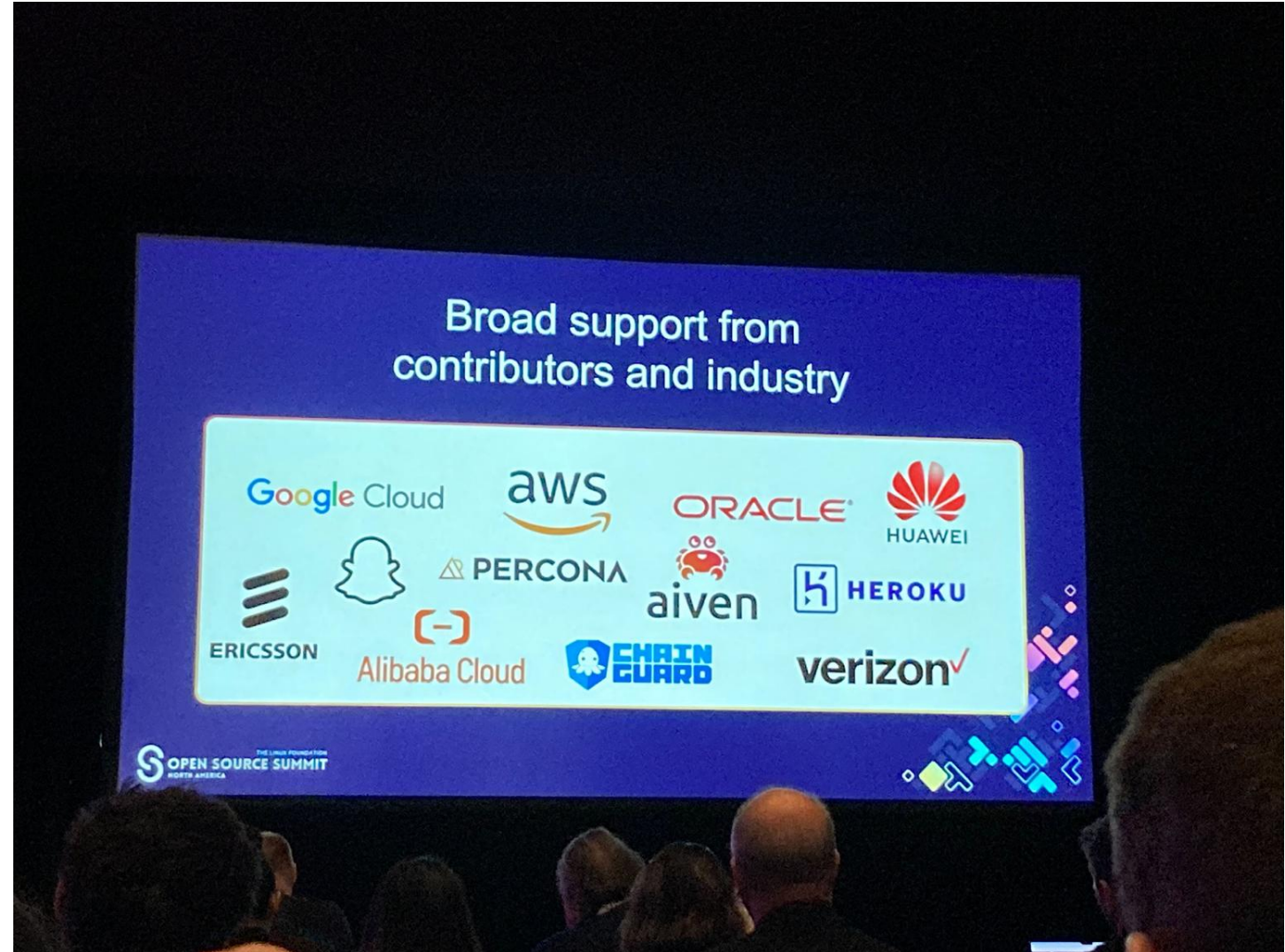


Cloud giants AWS, Google, and Oracle have come out in support of a Linux Foundation open source fork of Redis, the popular in-memory database frequently used as a cache, following changes to its licensing.

Last month, [Redis confirmed it was shifting its main key-value store system to a dual-license approach](#), imposing far more restrictive terms. Previously, the source code was available under the Berkeley Software Distribution (BSD) 3-clause license, which allows developers to make commercial use of the code without paying.

https://www.theregister.com/2024/04/03/open_source_redis_alternative/

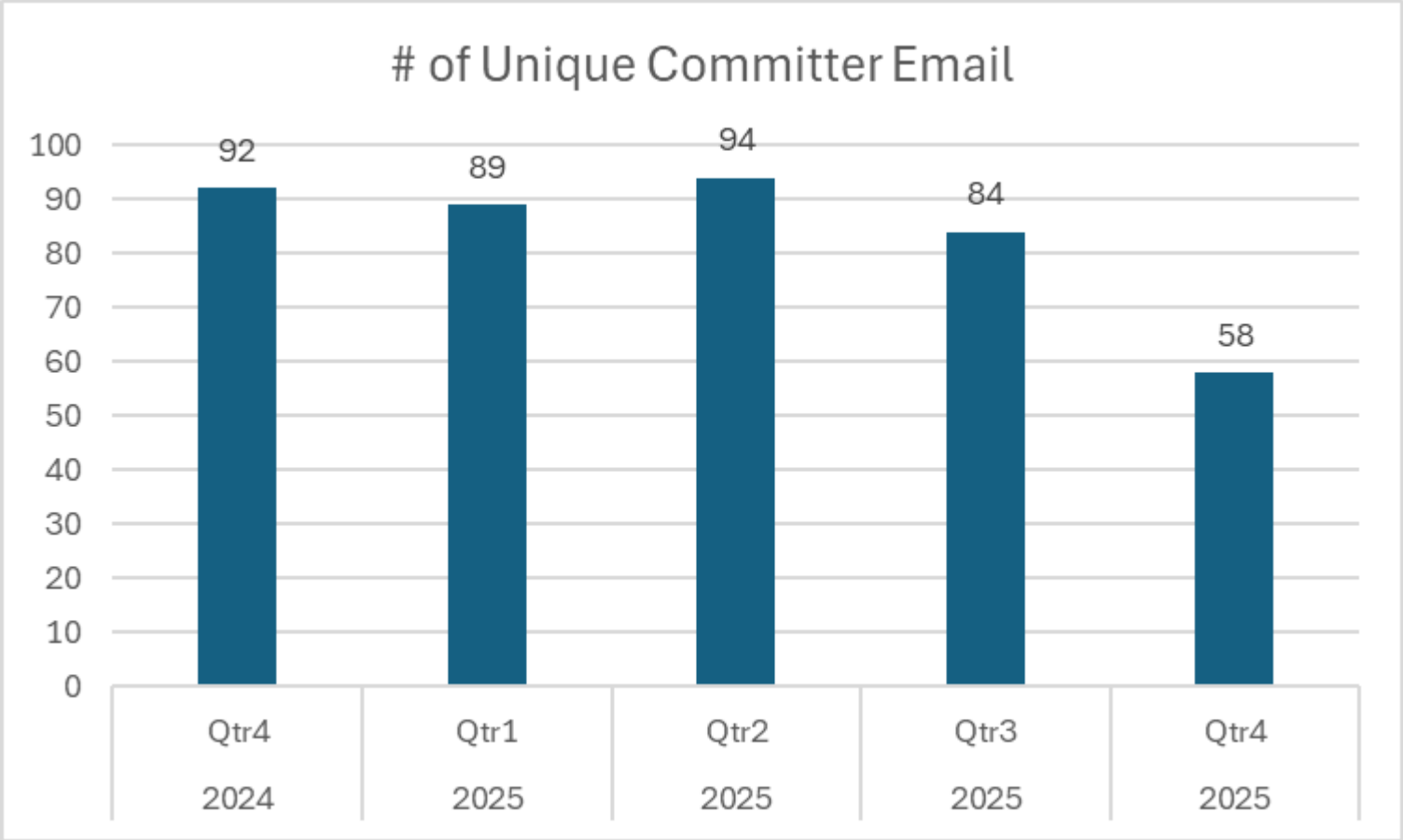
Percona Joins the Effort!





The State of MySQL...

Distinct Committer Emails



Oracle Promises to do Better

- **Change of Management for MySQL**
- **New Management promises to do better**
- **Heather VanCura, Jason Wilcox joins actively work with MySQL Community**
- **Plans to move some Enterprise Features to Open Source**
- **Increase collaboration with community and address its concerns**
- **<https://blogs.oracle.com/mysql/new-era-of-mysql-community-engagement>**



Peter Zaitsev  • You

Entrepreneur | Driving Success with MySQL, MariaDB, MongoDB & PostgreSQL...

[Visit my website](#)

2w • 



Do you think Oracle will follow through on promises made to MySQL Community ?

You can see how people vote. [Learn more](#)

Yes

22%

No

78%

263 votes • Poll closed

Support
Creating
Independent
MySQL
Ecosystem
Foundation!



OPEN LETTER TO ORACLE

Invitation to Discuss the Future of the MySQL Ecosystem

SIGN THE LETTER ↗

<https://letter.3306-db.org>





Primary Goal of the License Change?

- **Creating Monopoly on DBaaS Market**



STATE OF ART SIMPLICITY



**HIGH LEVEL OF
AUTOMATION**




**MAXIMIZES DEVELOPERS
FOCUS ON APPLICATION**

Why DBaaS?

What Is the
Problem with
Monopoly on
DBaaS?

MONOPOLY





No Different from Proprietary Software

Using DBaaS is a very different skill compared to rolling your own database setup



DBaaS Vendor Lock-In

It may not be so painful **now**, but it is going to be painful in the **future**



History Lesson

**Oracle used to Save its customer from IBM
Hardware Lock-in with Mainframe computers**



Why Data is Special

Moving Data is Expensive. Moving Lots of Data is Very Expensive – Principle of Data Gravity Applies

Not All Is
Lost



Have We
Been Here
Before?

2000s



2020s



Operating
Systems



Open Source Catches Up Again



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



**CLOUD NATIVE
COMPUTING FOUNDATION**

- **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...

You simply plug into a vast electrical grid managed by experts to get a low cost, reliable power supply – available to you with much greater efficiency than you could generate on your own.



Power is a utility service - available to you on-demand and you pay only for what you use.



Kubernetes

kubernetes



Kubernetes is universally available



Kubernetes is getting better for stateful applications



Kubernetes Operators are available for most popular Open Source Databases



**Day 1 and Day 2 Automation, Toil
Reduction Similar to DBaaS**



**UX is Different, Requires
Kubernetes Expertise**

What's Up with Kubernetes Operators?

Can We Build
DBaaS on
Kubernetes?



Database as a Service.

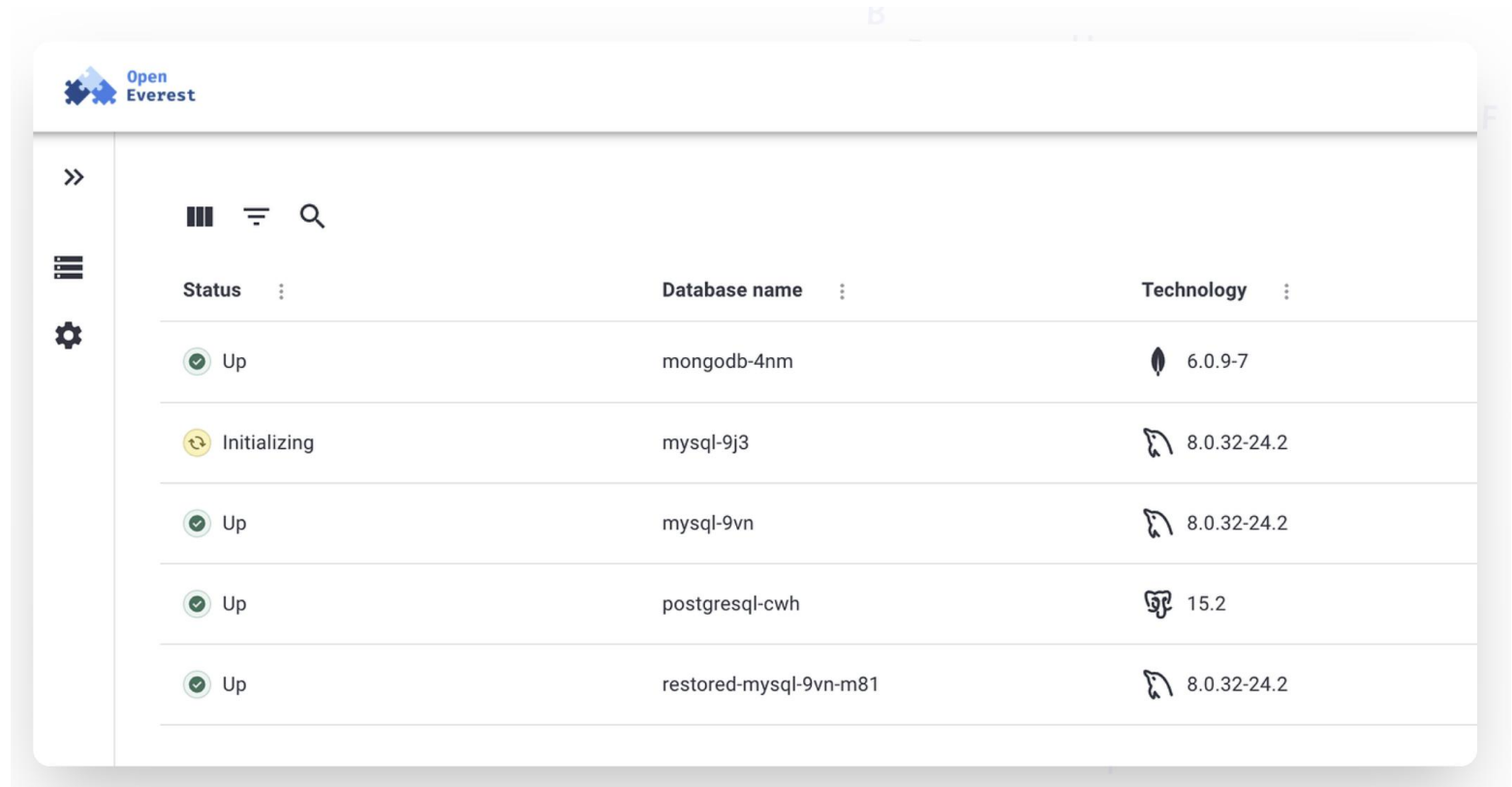


kubernetes

Many
Modern
DBaaS are
Built on
Kubernetes
Operators



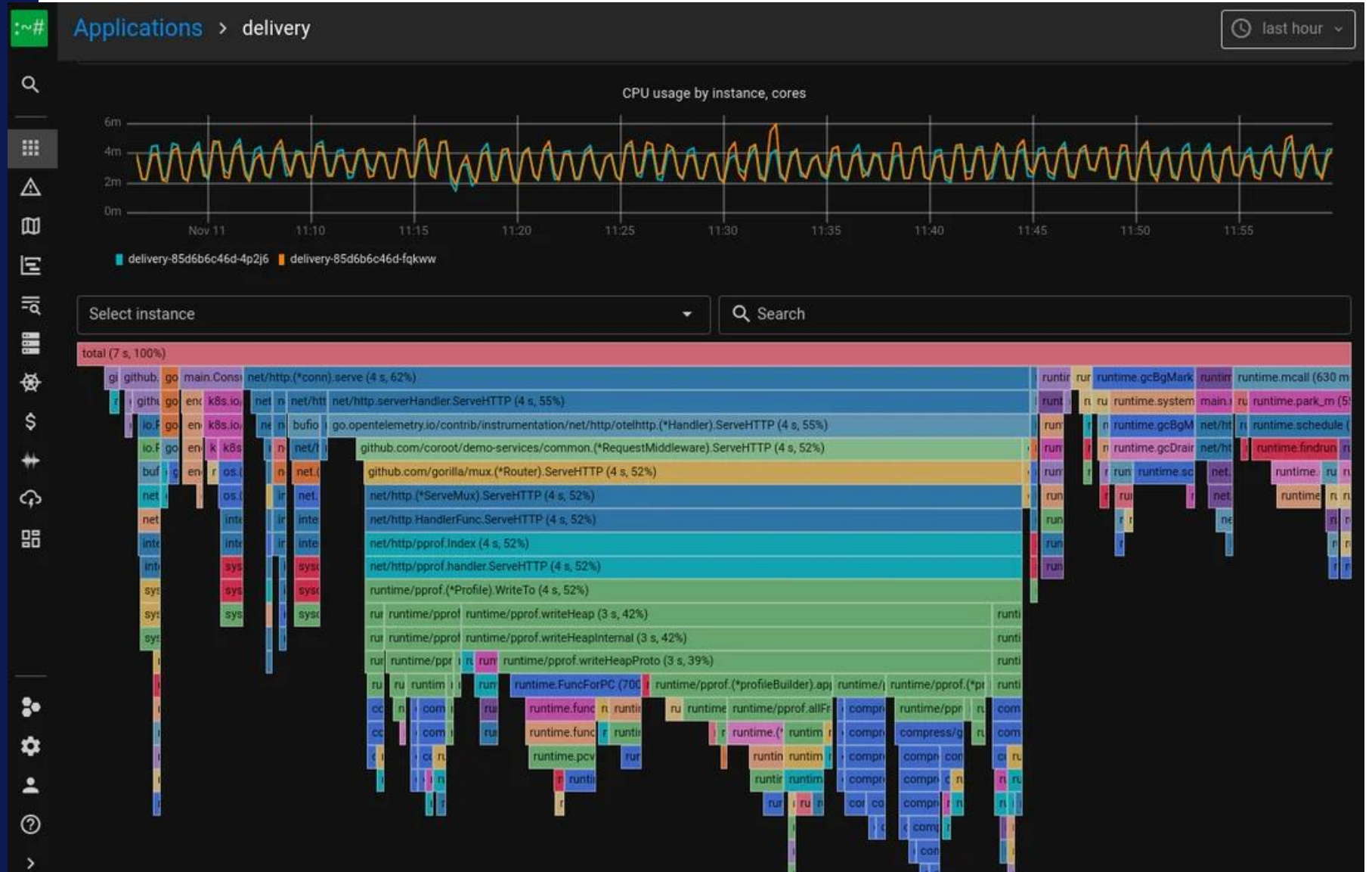
Open Source DBaaS Experience with OpenEverest



The screenshot displays the OpenEverest dashboard interface. At the top left, the logo for OpenEverest is visible. Below the logo, there is a navigation sidebar with icons for home, menu, and settings. The main content area features a table with columns for Status, Database name, and Technology. The table lists five database instances with their respective statuses and technologies.

Status	Database name	Technology
Up	mongodb-4nm	6.0.9-7
Initializing	mysql-9j3	8.0.32-24.2
Up	mysql-9vn	8.0.32-24.2
Up	postgresql-cwh	15.2
Up	restored-mysql-9vn-m81	8.0.32-24.2

Cloud Native Observability with Coroot



<https://coroot.com/>

Summary



**Fantastic Pace
Innovation**



**Evolving Open
Source Models**



Great Future



 **PERCONA**  **Live26**
BAY AREA

May 27-29, 2026
Computer History Museum,
Mountain View, California

perconalive.com





20 Years of Open Source Database Awesomeness



Percona Turns 20 in 2026!

- Check out our **Celebration Web Site** and Share your story
- <https://percona20.com>

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hello@geeksgopeaks.com



Thank you! Let's Connect!

<https://www.linkedin.com/in/peterzaitsev/>

<https://twitter.com/PeterZaitsev>

<http://www.peterzaitsev.com>

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