POSTGRES TAKES CHARGE AROUND THE WORLD

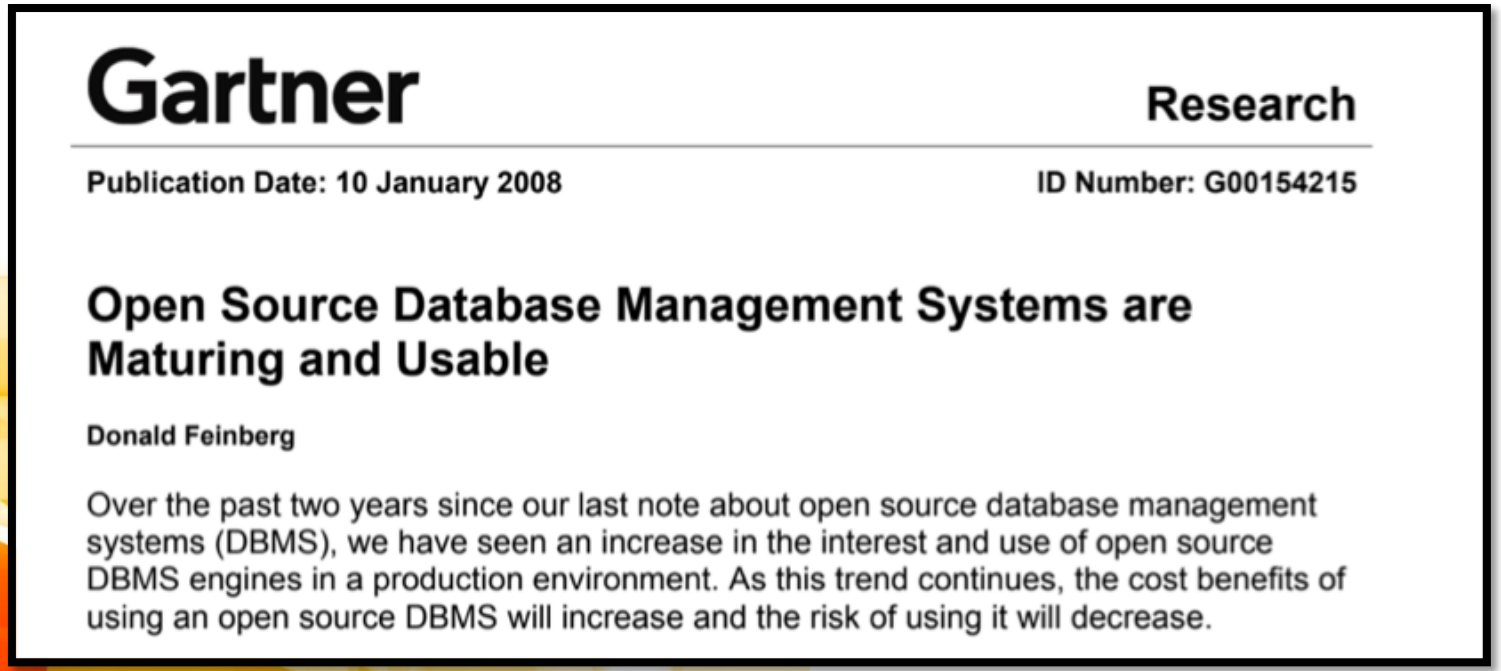
Marc Linster, Ph.D.

Senior Vice President, Product Development

EnterpriseDB

10 YEARS AGO

Open Source is “Maturing” and “Usable”



Gartner Research

Publication Date: 10 January 2008 ID Number: G00154215

Open Source Database Management Systems are Maturing and Usable

Donald Feinberg

Over the past two years since our last note about open source database management systems (DBMS), we have seen an increase in the interest and use of open source DBMS engines in a production environment. As this trend continues, the cost benefits of using an open source DBMS will increase and the risk of using it will decrease.

EDB POSTGRES

POSTGRES TODAY

Ready to compete and win against traditional proprietary database solutions.

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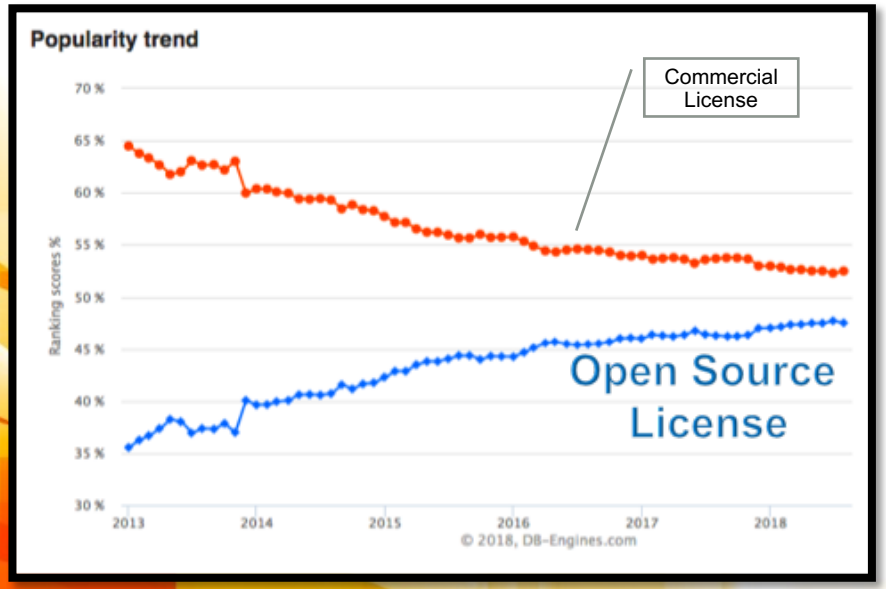
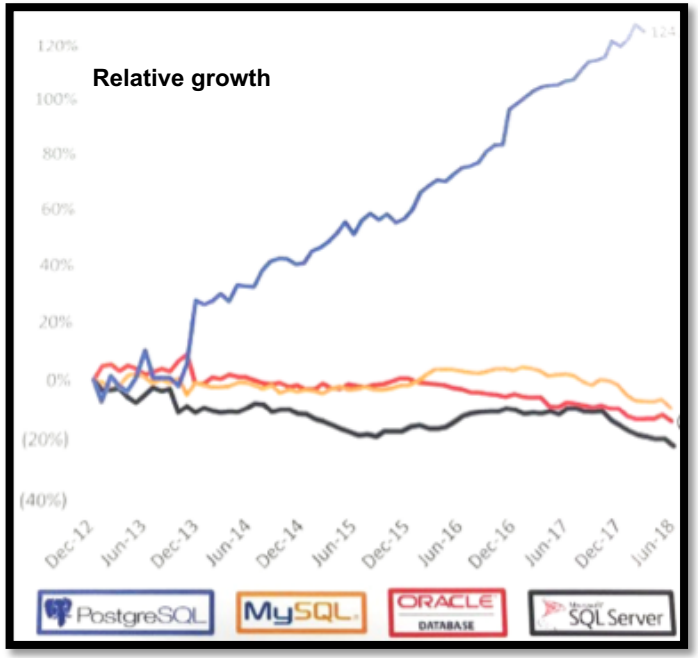
POPULARITY OF OPEN SOURCE & POSTGRES

DB-Engines Ranking





124%

(9.7%)

(14.2%)

(22.4%)

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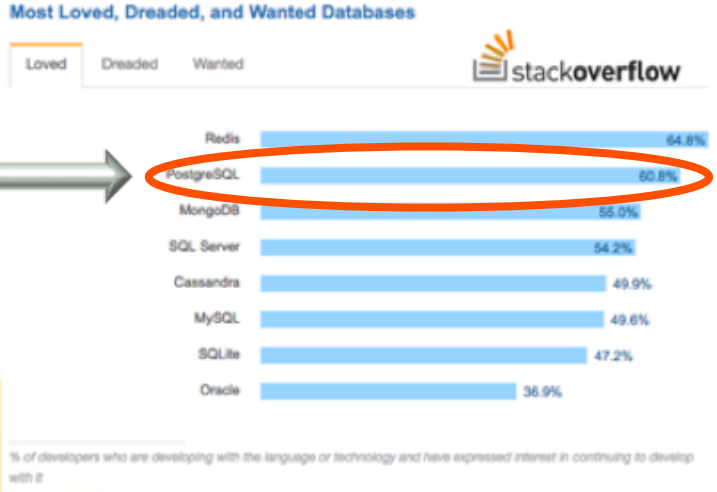
MOST USED

MOST LOVED



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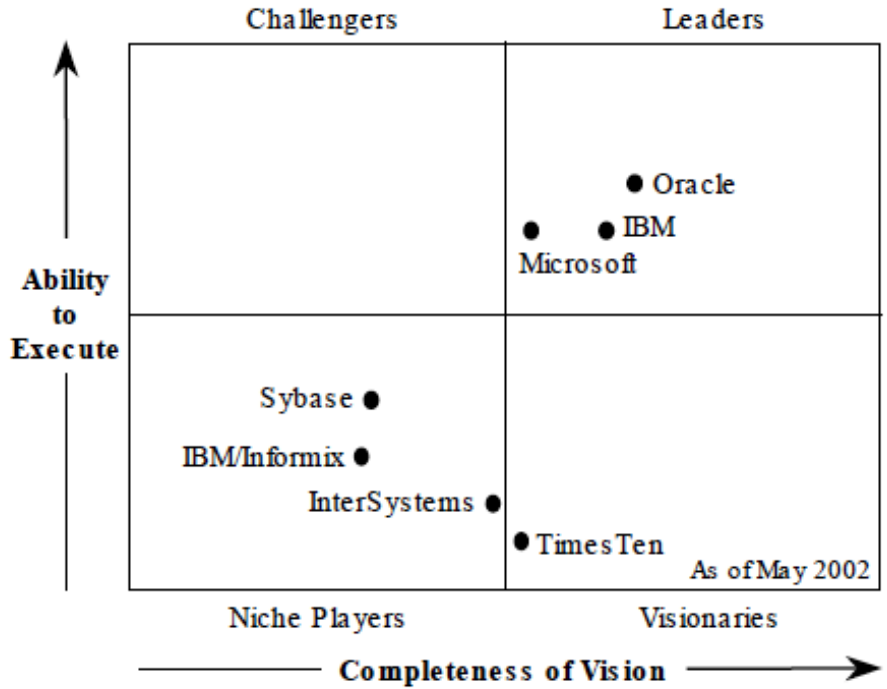
BUT, OPEN SOURCE WAS NOT ALWAYS RECOGNIZED

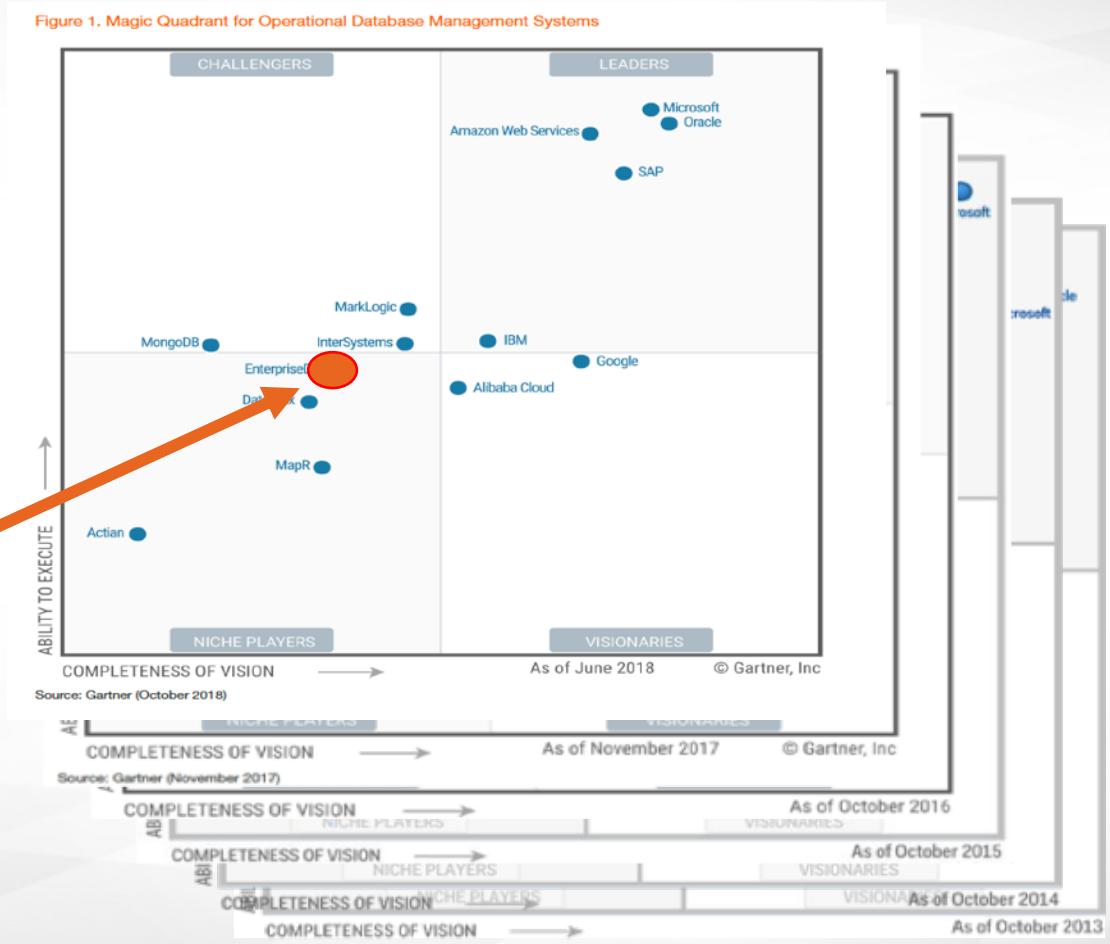
- Magic Quadrant for Online Transaction Processing RDBMS, 2002



Online Transaction Processing RDBMS Magic Quadrant
Published: 2 May 2002

POSTGRES: ONLY OPEN SOURCE RDBMS IN GARTNER MQ

EDB Postgres recognized 6 years in a row on Gartner's Magic Quadrant



WHAT'S CHANGED?

Support and Use of Postgres Rapidly Maturing

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SUPPORT FOR POSTGRES FROM PUBLIC COMPANIES

Rapidly Evolving and Highly Mature

NTT

aws

Azure

FUJITSU

IBM Cloud

Hewlett Packard Enterprise

Alibaba Cloud

Infosys

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ROBUST POSTGRES EXTENSIONS

On the Rise from an Expanding Partner Ecosystem

PARALLEL QUERY

TIME SERIES

GEO-SPATIAL

GRAPH

MPP

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USED IN THE MOST DEMANDING ENVIRONMENTS & APPLICATIONS

High technology

Communications

Finance

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LEVERAGED FOR PERFORMANCE ACROSS INDUSTRIES

Global mobile ad network

- Largest database is 14TB
- 1.2 billion transactions a day, 55K transaction per second
- 400 concurrent users
- Analyzes 240TB of data per day

Online Brokerage Firm

- 1 billion writes a day
- 3,000 transactions per second
- 800 concurrent users

Global consumer financial services provider

- Example application database is 2TB
- 200K SELECT statements per second
- 25K WRITE transactions per second

Global stock trade underwriter

- Largest database is 8 TB
- 6 to 10 million transactions per day

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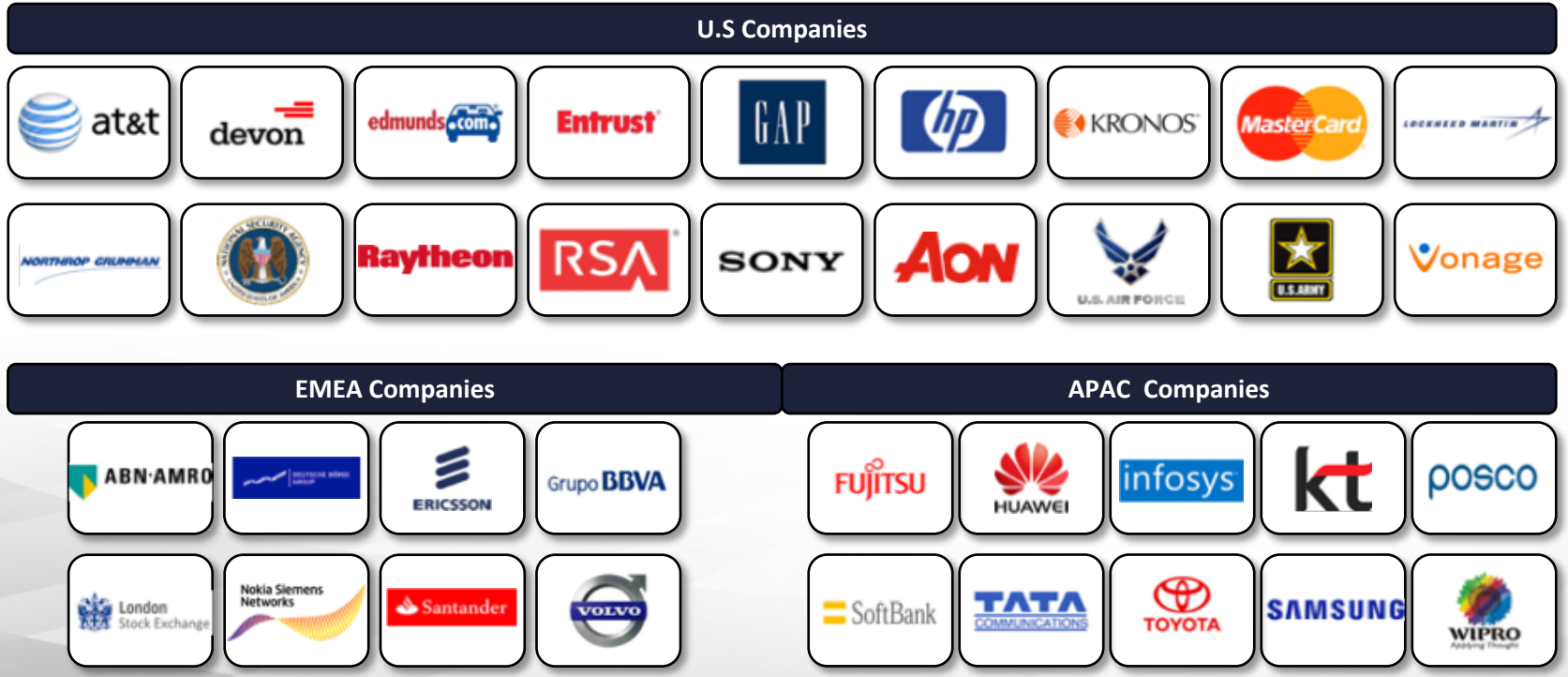
BY THE LARGEST ENTERPRISES ACROSS THE WORLD



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WHAT'S FUELING THIS?

Industry Insights from Experts and User Data

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POSTGRES INNOVATION

10 YEAR PERSPECTIVE

10 years ago:

- Majority of contributions from volunteers
- Mostly one-person projects. Windows port was one of the first multi-person projects

Today:

- Still significant number of contributions from volunteers
- Most headline contributions are from professional Postgres developers that are part of commercial efforts
- Multi-person and multi-company projects like sharding, pluggable storage engine

Bruce discusses these developments in his presentation, Will Postgres Live Forever?, and offers some interesting insights into the future.

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WE'VE OBSERVED THESE DEVELOPMENTS

And that motivated us to gather some facts…

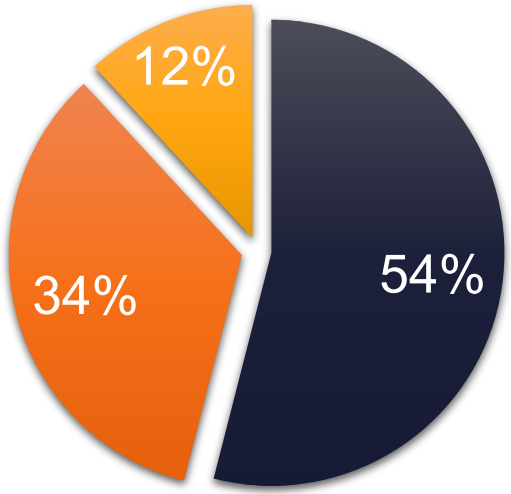
Where is all this Postgres running?

- We asked a 1,000 downloaders of PostgreSQL….

IN USE IN LARGE ORGANIZATIONS

Enterprises with more than 1,000 employees were 50% of our total.

Who many employees in your company?

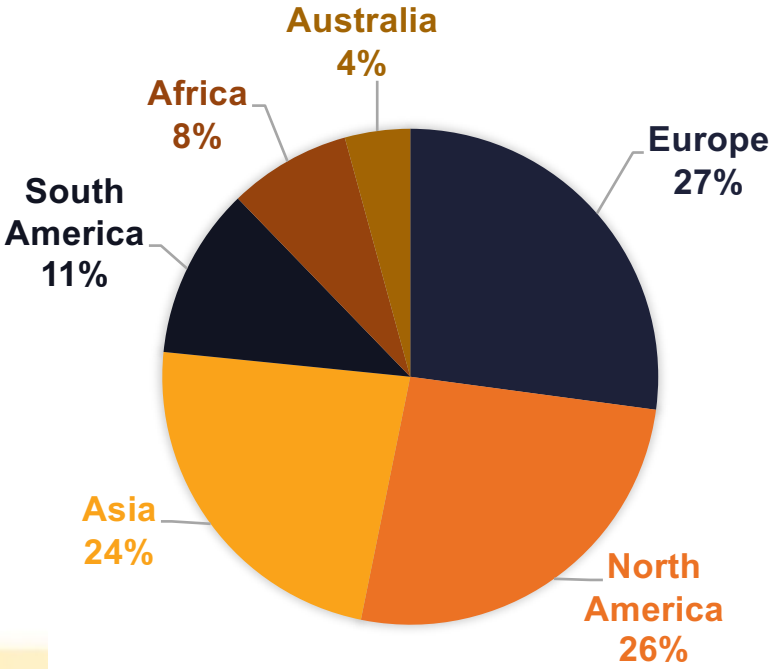


Filtered out students, consultants and very small companies

GEOGRAPHICALLY DIVERSE ADOPTION

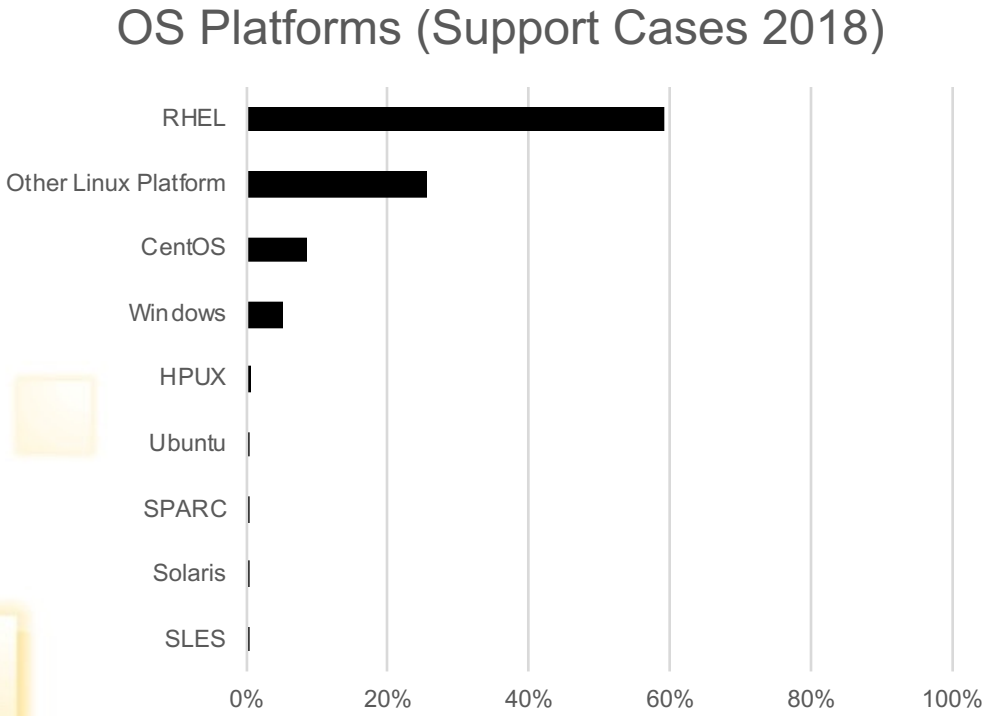
Strong representation of downloaders across the globe.

Where do you live?



RUNS ACROSS OPERATING SYSTEMS

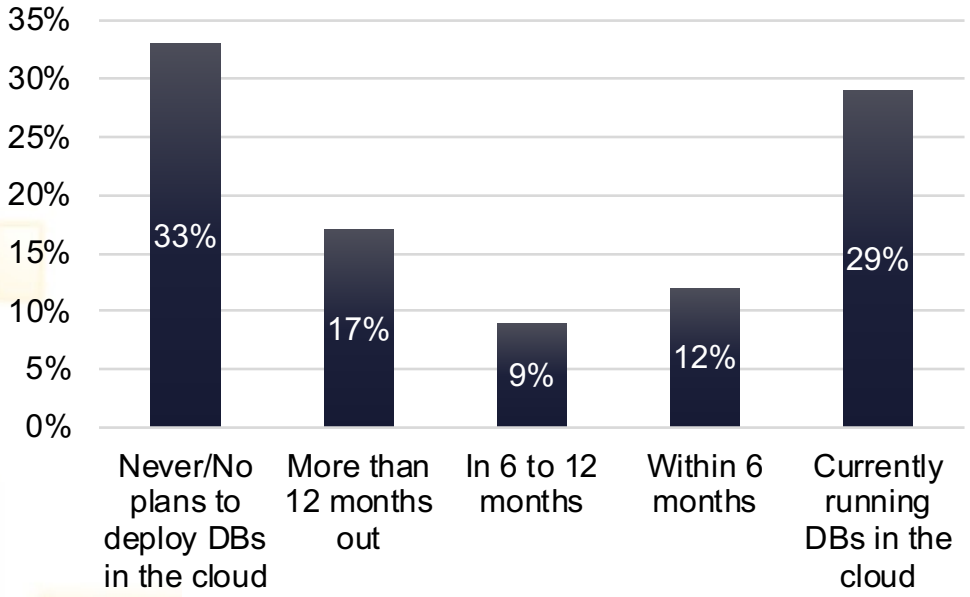
- RHEL consolidation driven by Enterprise
- Linux usage up from 70% to 93%



AND NEEDS TO RUN EVERYWHERE!

On-premises data center and a private or public cloud

What is Timeline to Run Databases in Cloud?



WITH INCREASED KNOWLEDGE

Questions remain, but focus has changed.

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INCREASED POSTGRES EXPERTISE

Shows an Evolution in Questions, Challenges, and Goals

5 Years Ago

- How do I run backups?
- How is this different from Oracle?
- What about vacuum?

Today

- How do I integrate Postgres with the rest of my environment?
- How to support containers, microservices and DevOps
- Significantly more complex use cases

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BUILDING ON THE MOMENTUM

EDB's View of the future

BUILDING ON THE MOMENTUM

EDB considers the future of Postgres.

What will happen to Postgres Technology?

- Pluggable storage (zHeap, columnar, in-memory, …)
- Logical replication
- Partitioning & sharding
- Thread-based
- Transparent encryption
- …

BUILDING ON THE MOMENTUM

EDB considers the future of Postgres.

What will happen to the ecosystem?

- More commercial participation
- Better tools integration for backup, monitoring and management
- Native cloud integration (not just AWS)
- Becoming the standard open source relational database

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THANK YOU

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WHO IS EDB?

The world leader in open-source based Postgres software and services.

- **Founded in 2004**
- **Recognized RDBMS leader by:**
  - Gartner
  - Forrester
- **Customer base > 4000**
- **300+ employees**
- **Offices worldwide**
- **Largest PostgreSQL community leader**

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WORLDWIDE PRESENCE

EDB OPEN SOURCE LEADERSHIP

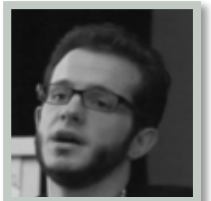
Named EDB open source committers and contributors

CORE TEAM

Bruce Momjian

Dave Page

MAJOR CONTRIBUTORS



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