



JUST DON'T DO IT
POSTGRES SQL IN KUBERNETES

PostgreSQL Cloud

TOO MUCH TO SAY, TOO LITTLE TIME

Jan Karremans

Techie in Sales

30 years in databases

3 years in Kubernetes

On a mission



-Trained



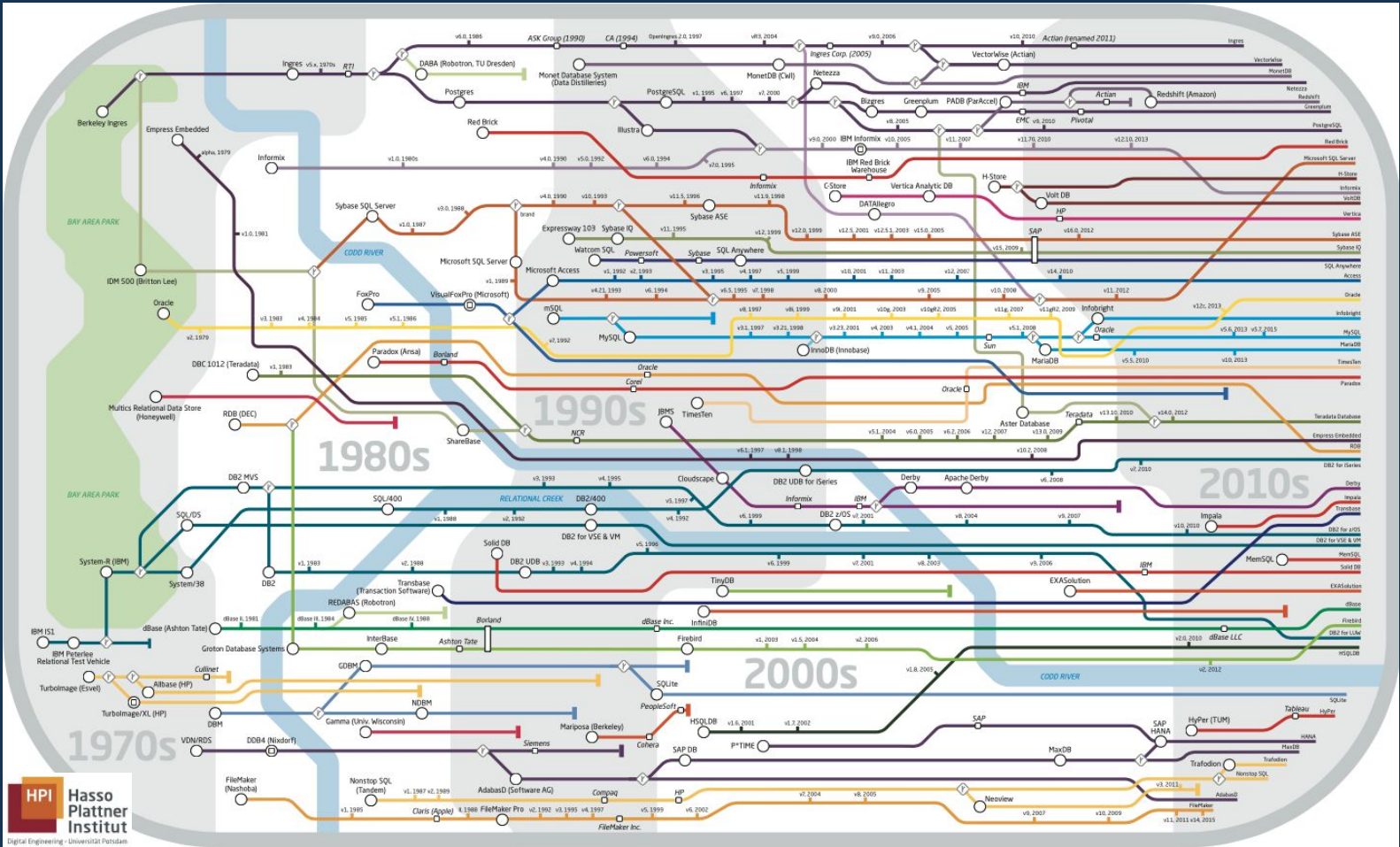
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***THE MOST
TRANSFORMATIVE
TECH SINCE LINUX.***

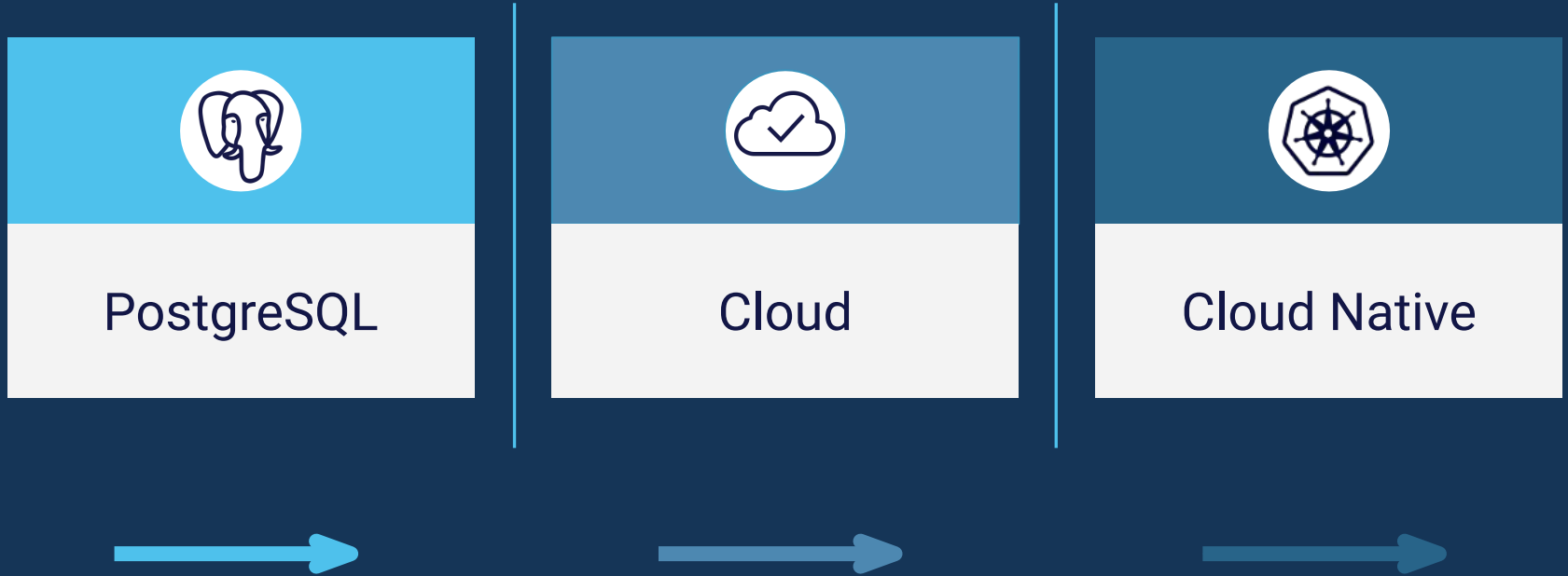
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***MARC LINSTER,
POSTGRESQL FELLOW***





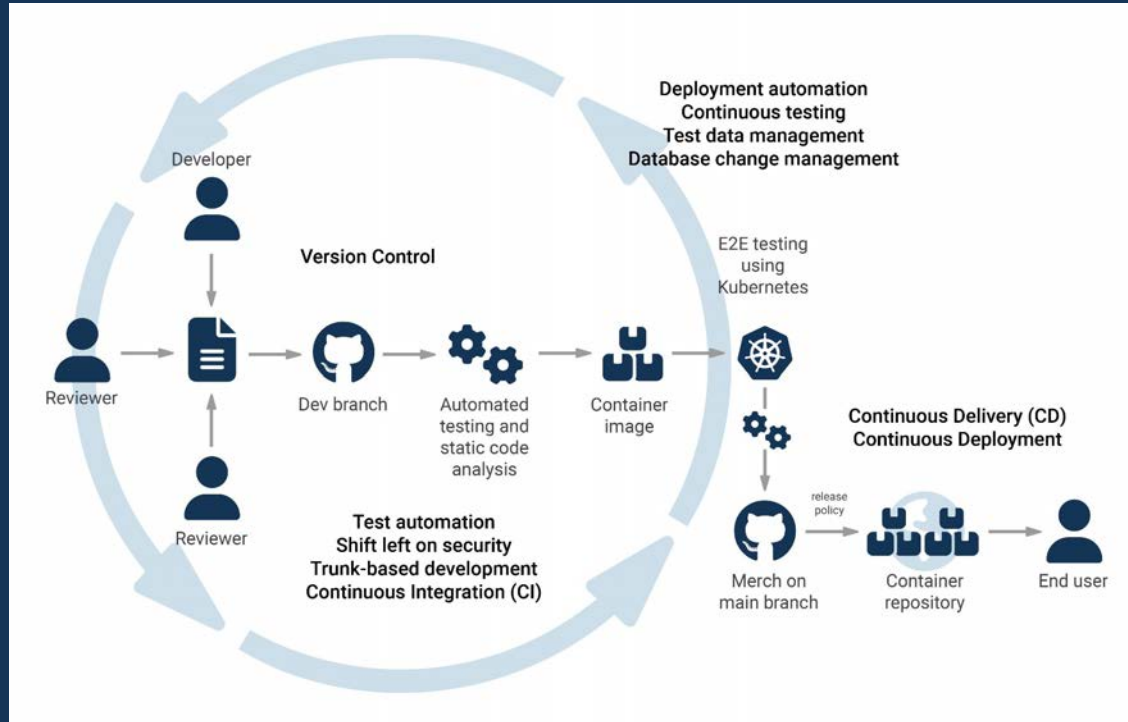
LAY OF THE LAND



SHIFTING GEARS



DEV/OPS



MONOLITHIC TO AGILE

Cloud changes much more than just your deployment method



BUZZ
WORD



BINGO

ENABLING SPEED AND INNOVATION

From buzzword bingo to business benefits



Agile

Ensure development and deployment teams can (re)deploy and test quickly and seamlessly



Microservices

Transform traditional monolithic applications to cloud native, microservices based solutions



DevOps

Development and deployment of applications are no longer disjointed operations but fully integrated



CI/CD

New value for your solution, released quickly and securely in short and safe deployment cycles

INTRODUCE DORA

DevOps Research and Assessment

The longest running academically rigorous research investigation of its kind

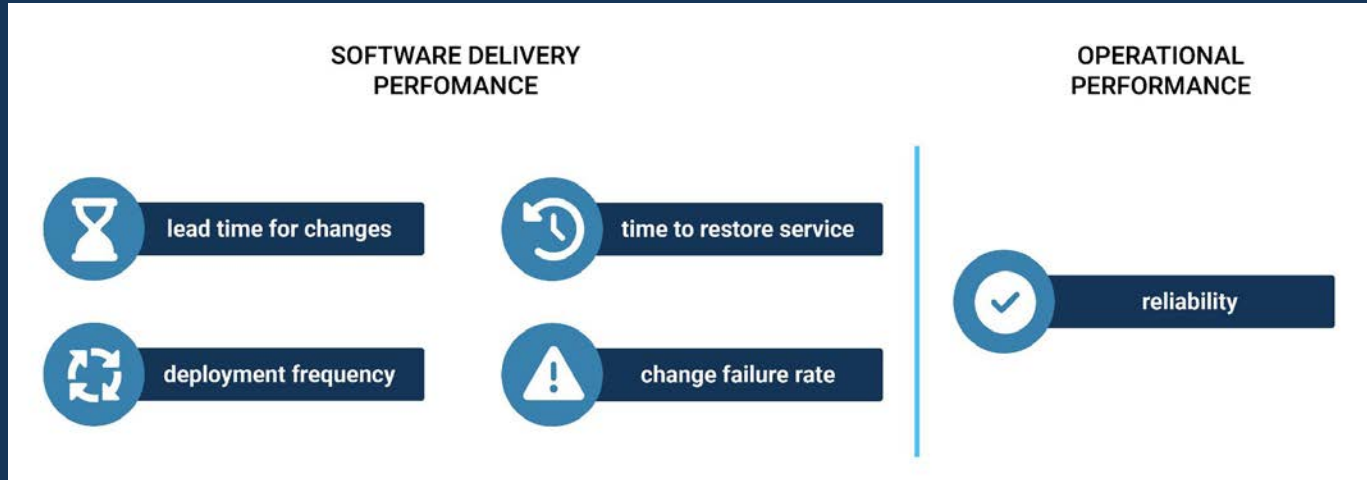
Providing an independent view into the practices and capabilities

That drive high performance in technology delivery and organizational outcomes

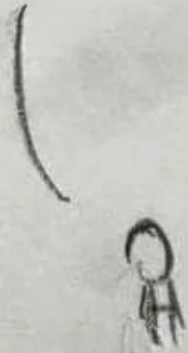


FROM AVAILABILITY TO RELIABILITY

It is all about the metrics



DADDY, WHAT ARE
CLOUDS MADE OF?



LINUX SERVERS,
MOSTLY





Cloud native technologies empower organizations to **build** and **run scalable applications** in modern, **dynamic environments** such as public, private, and hybrid **clouds**. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

These techniques enable **loosely coupled systems** that are **resilient, manageable, and observable**. Combined with robust automation, they allow engineers to make **high-impact changes frequently** and **predictably with minimal toil**.

The Cloud Native Computing Foundation seeks to drive adoption of this paradigm by fostering and sustaining **an ecosystem of open source, vendor-neutral projects**. We democratize state-of-the-art patterns to make these innovations **accessible for everyone**.



VERY POWERFUL COMMUNITIES TOGETHER



&



RUN POSTGRES, THE KUBERNETES WAY

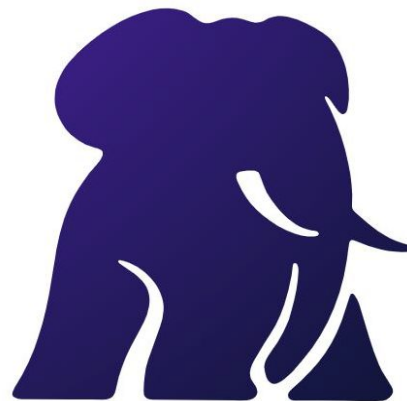


CloudNativePG



Run PostgreSQL. The Kubernetes way.

CloudNativePG is the Kubernetes operator that covers the full lifecycle of a highly available PostgreSQL database cluster with a primary/standby architecture, using native streaming replication.

[View on GitHub](#)

Autopilot

It automates the steps that a human operator would do to deploy and to

Data persistence

It doesn't rely on statefulsets and uses its own way to manage persistent

Designed for Kubernetes

It's entirely declarative, and directly integrates with the Kubernetes API



cloudnative-pg.io







GET IN TOUCH

**WE'D LOVE TO HEAR YOUR
THOUGHTS**

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