EDB Platform Roadmap

Sergio Romera,
Senior Manager, Sales Engineer (EMEA South)
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Sergio Romera

- Senior Manager, Sales Engineer @ EDB
- Based in France
- Database fanatic since 1997
- Developer, DBA, Architect, Sales Engineer
- Companies: BNPParibas, Quest Software, Oracle
- Postgres Certified Professional
- Kubernetes Cloud Native Associate certified
- Oracle Certified Associate
- AWS and Azure certified

Sergio Romera

EDB Postgres® AI

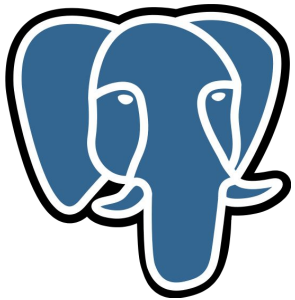
Agenda

- Who is EDB
- PostgreSQL is winning
- Our architecture
- Roadmap

Who is EDB?

EDB Postgres® AI

An intelligent platform for unified management of transactional, analytical, and AI workloads - powered by Postgres.



EDB Portfolio

EDB POSTGRES AI PLATFORM

UNIFIED WORKLOAD MANAGEMENT

- TRANSACTIONAL
- ANALYTICAL
- ARTIFICIAL INTELLIGENCE

SINGLE PANE OF GLASS ADMINISTRATION

- HYBRID DATA ESTATE
- INTELLIGENT OBSERVABILITY
- ENTERPRISE SECURITY

HYBRID AND MULTICLOUD DEPLOYMENT

- PUBLIC CLOUD (MANAGED)
- PRIVATE CLOUD (SOFTWARE)
- ON PREMISE (APPLIANCE)

PLATFORM TOOLS AND SERVICES

- MIGRATION PORTAL
- CONTINUOUS HIGH AVAILABILITY
- BACKUP AND RECOVERY

EXTENSIBILITY

- CSP INTEGRATIONS
- DEVOPS TOOLING
- KUBERNETES TOOLING
- GENAI & LLM INTEGRATIONS
- LAKEHOUSE INTEGRATIONS

Delivered with world class strategic partners:

IBM

Red Hat

SUPERMICRO

NUTANIX

Who is EDB?

1500+ Enterprises and Growing
EDB deeply understands Enterprise Postgres needs.

79 Countries around the World
Global footprint and employee base.

Millions of people using Postgres in the world
Long-term customers and deep Postgres capabilities.

3 of 7 Postgres Core Team Members, 7 Committers, 40+ Contributors
EDB is the leading Postgres community contributor.

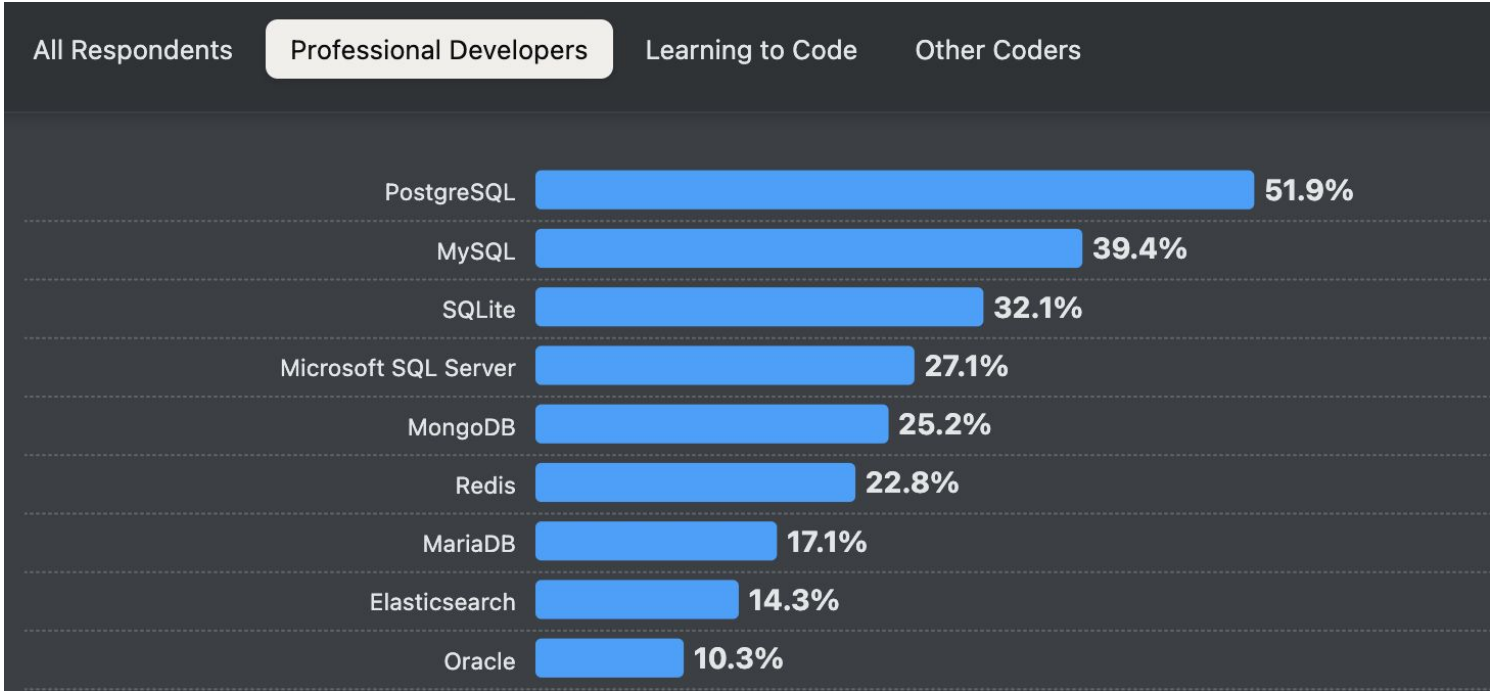
30% of Postgres Code Contributed in 2023
Driving the innovation and foundation of Postgres.

>300 Dedicated Postgres engineers
Unparalleled expertise in Postgres.

PostgreSQL is Winning

PostgreSQL Is Winning

The most admired, desired & used database - Source: Stack Overflow Developer Survey, 2024



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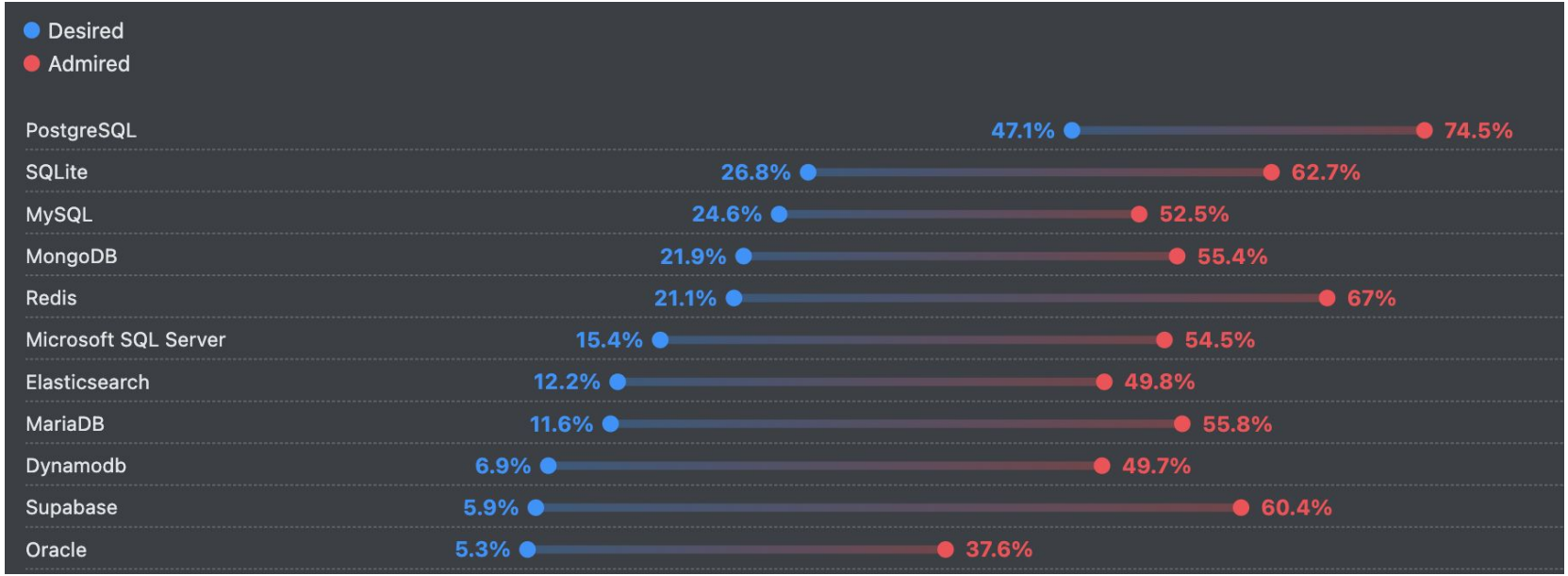

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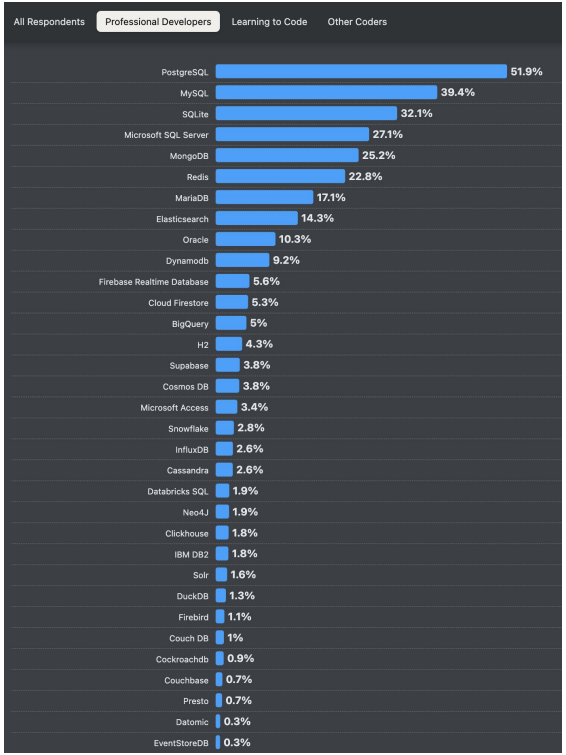
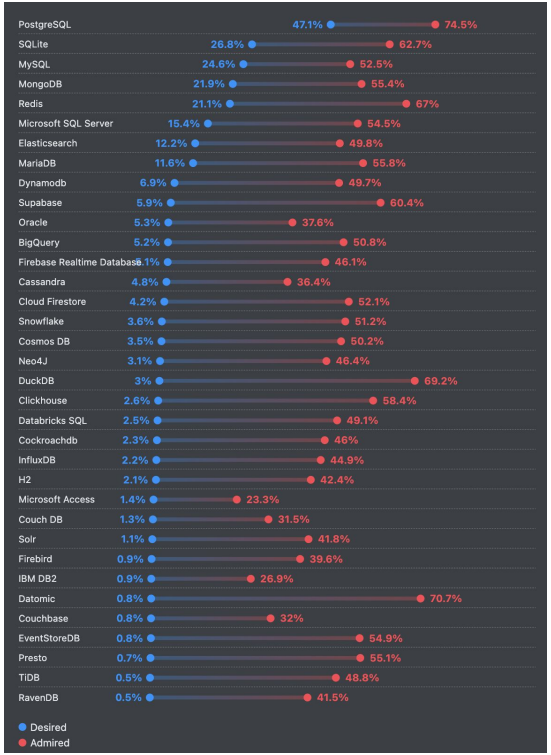
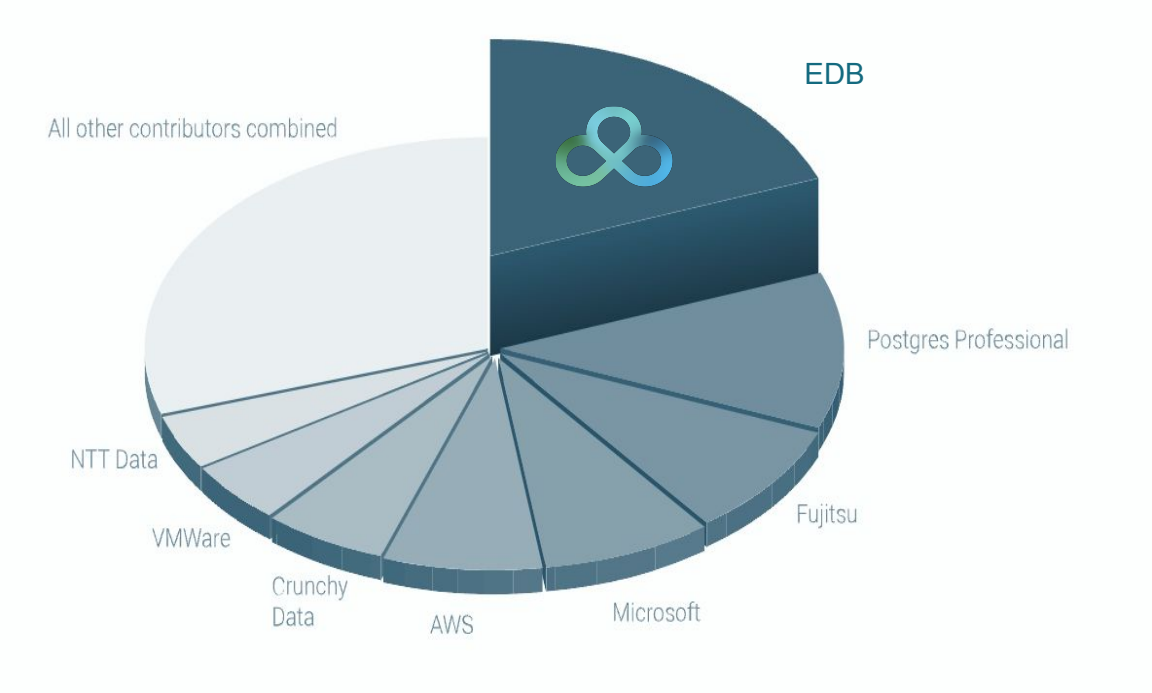


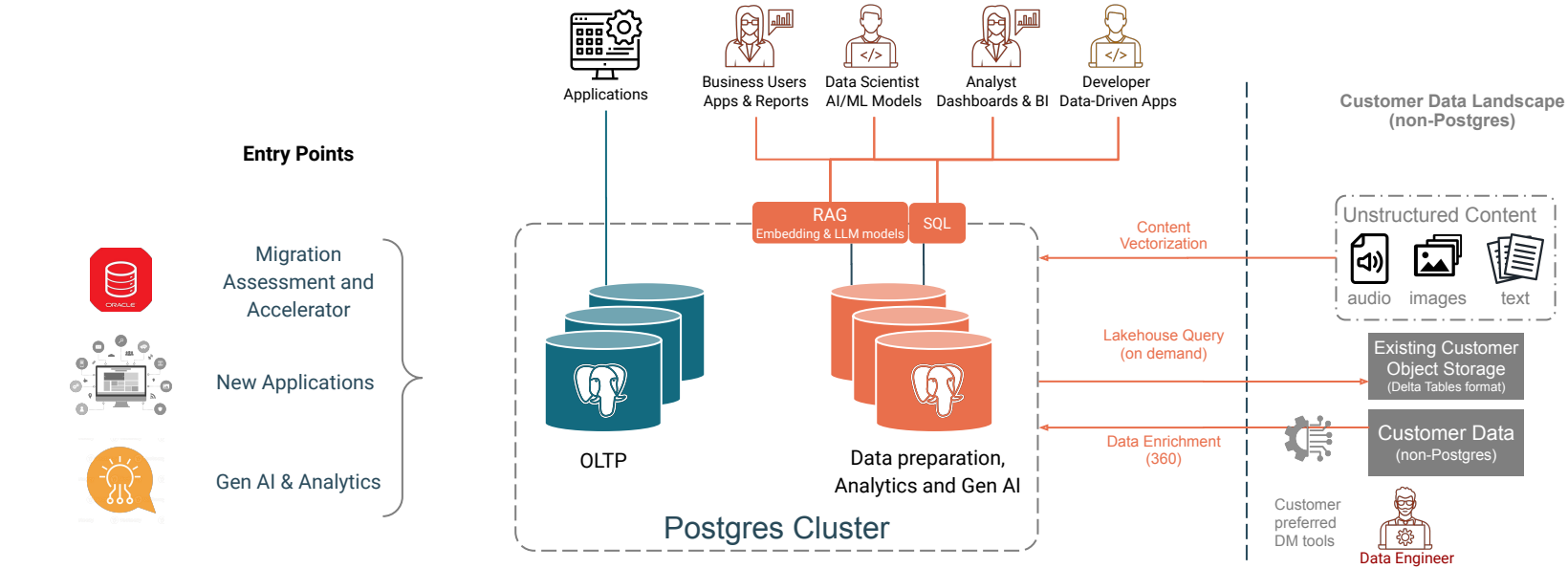


30% of Postgres Code Contributed in 2023



Our Architectures

Architecture Overview - The Big Picture



Enterprise Capabilities	Oracle Compatibility	Always-On	Performance & Security	Monitoring and Perf. Diagnostics	Backup and Restore	Cloud Native Adoption
Expertise & Hands holding	Legacy Migration	Architecture	Training	Jump Start	TAM & Remote DBA	Health Check

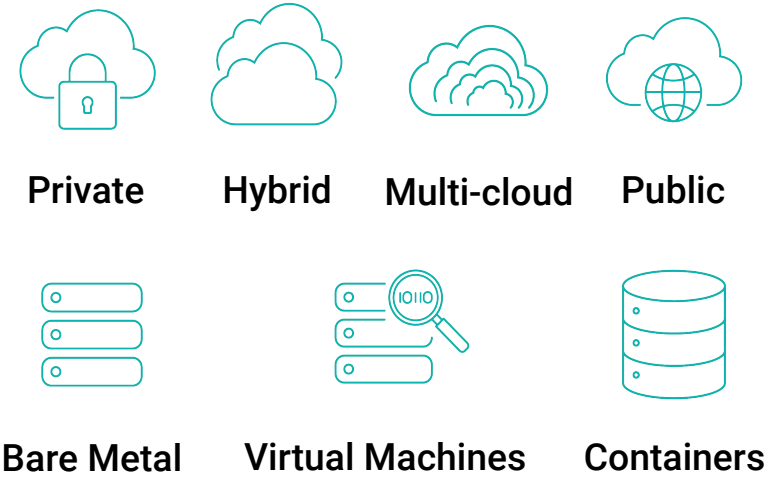
30X faster — on *average* for analytical queries compared to Postgres

18X cost-effective — Object storage vs. solid state drives (SSDs)[3][2]

Customers want the same: service level & expertise everywhere

The same PostgreSQL - self-managed to fully-managed - on any cloud

- Same 24/7 expert PostgreSQL support
- Same break-fix, patching, maintenance
- Same HA and redundancy architectures
- Same security and upgrade policies
- Same backup and recovery
- Same to deployment mechanism & consistency to any Cloud/Hybrid and On-Premise



The same PostgreSQL - across every Postgres deployment in your entire estate

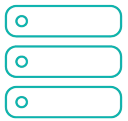
Deploy the Same PostgreSQL Everywhere

Fully-managed service (SaaS)

AWS, Azure, GCP

Self-managed service (IaaS or on-premises)

AWS, Azure, GCP
On-premises



Kubernetes service (cloud-native or public cloud)

Self-managed k8s
Cloud vendor k8s

Multiple Platforms – One Postgres

Roadmap

Capabilities and Tooling

Management/Monitoring

Postgres Enterprise Manager pgAdmin

High Availability

EDB Postgres Distributed
Failover Manager
Repmgr
Patroni

Backup and Recovery

Barman
pgBackRest

Migration

Migration Portal
Migration Toolkit
Replication Server

Integration

Connectors
Foreign Data Wrappers
Connection Poolers

Kubernetes

EDB Postgres for Kubernetes
CloudNativePG

Analytics

Data Lakehouse

EDB, Postgres & AI

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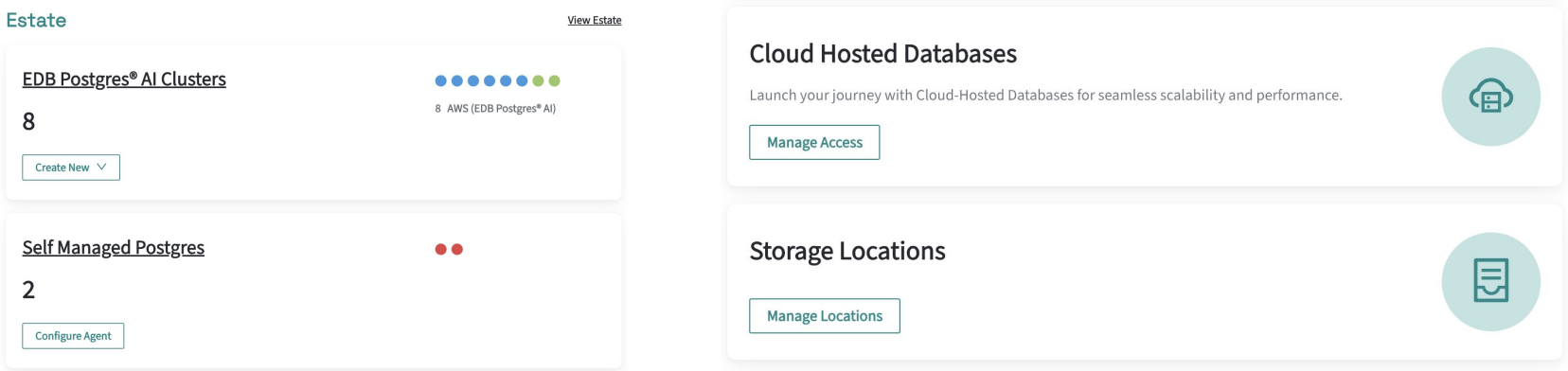
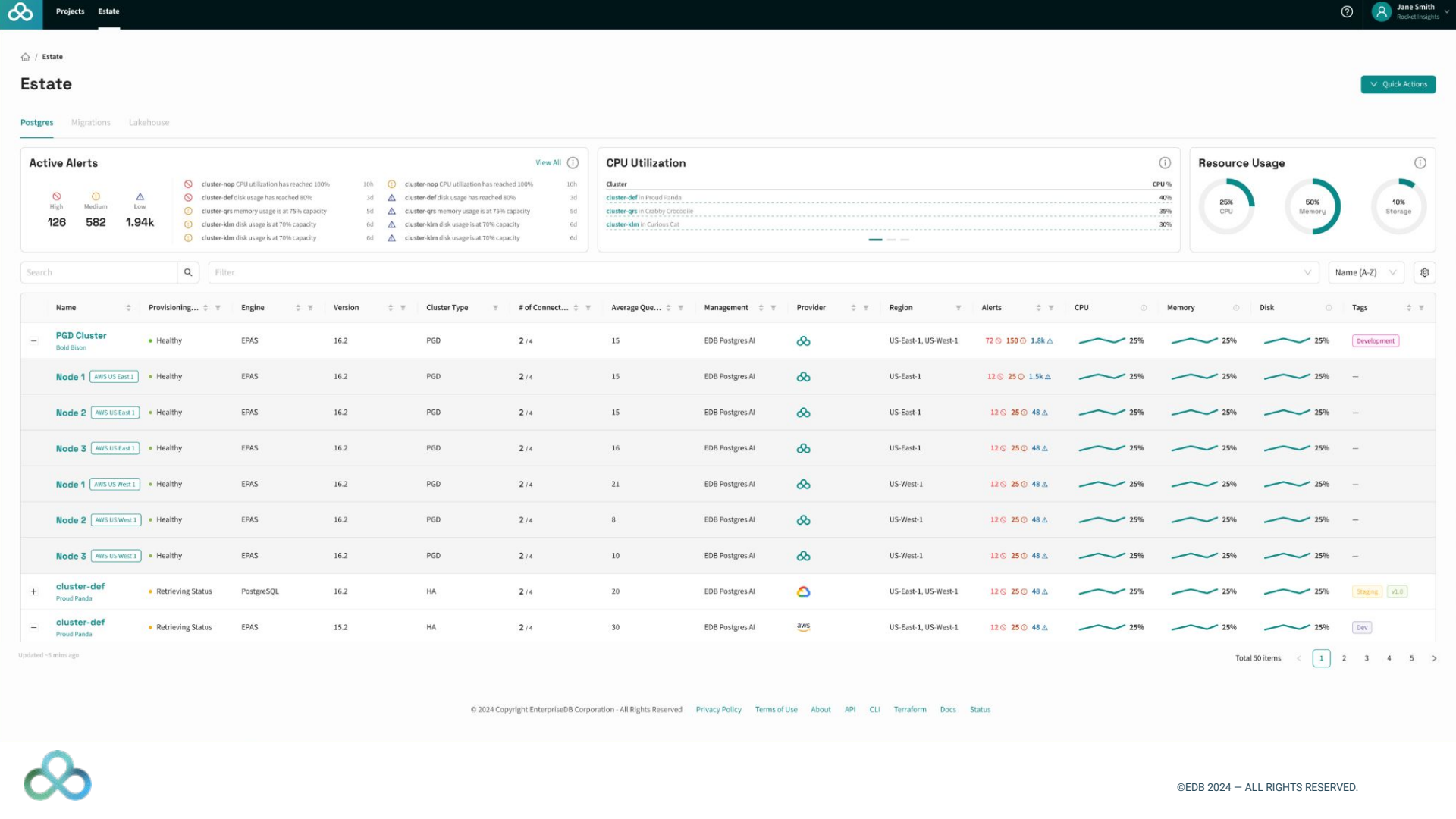
Extensions

Management/Monitoring

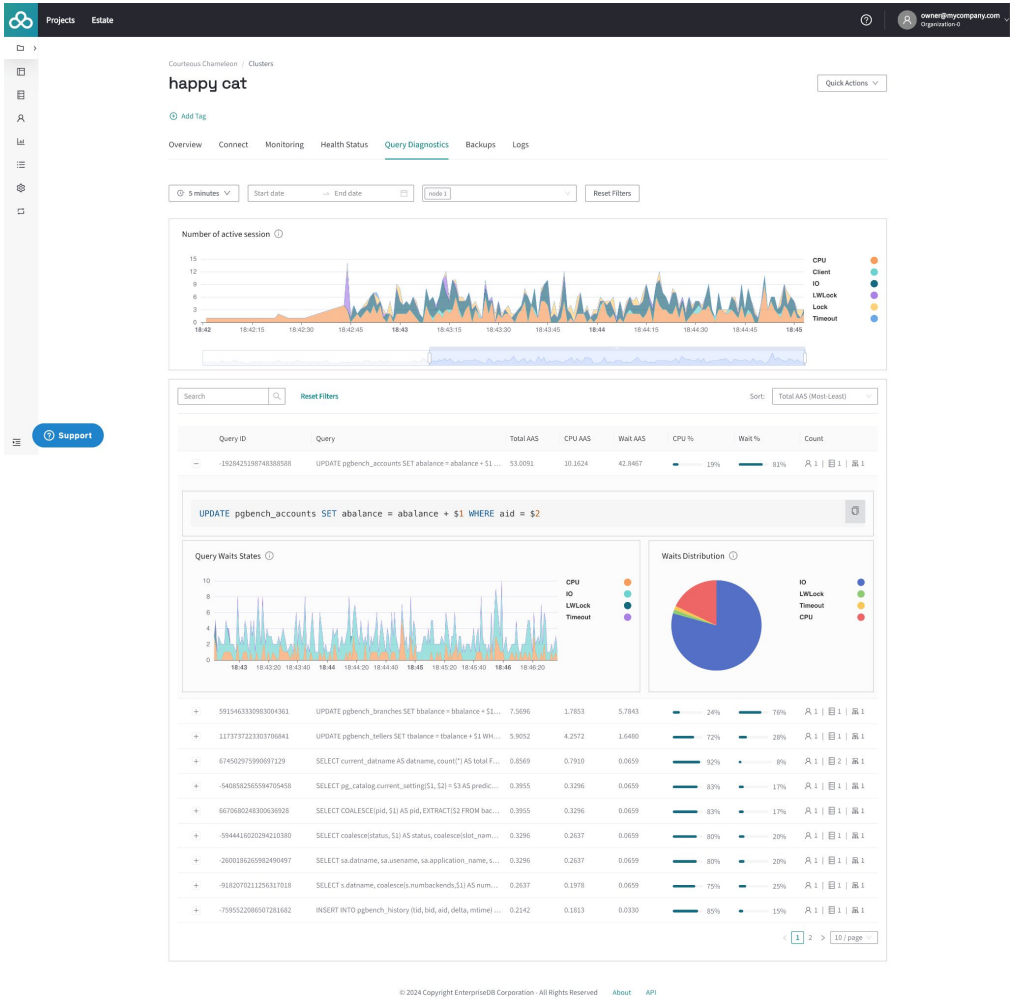
Single Pane of Glass



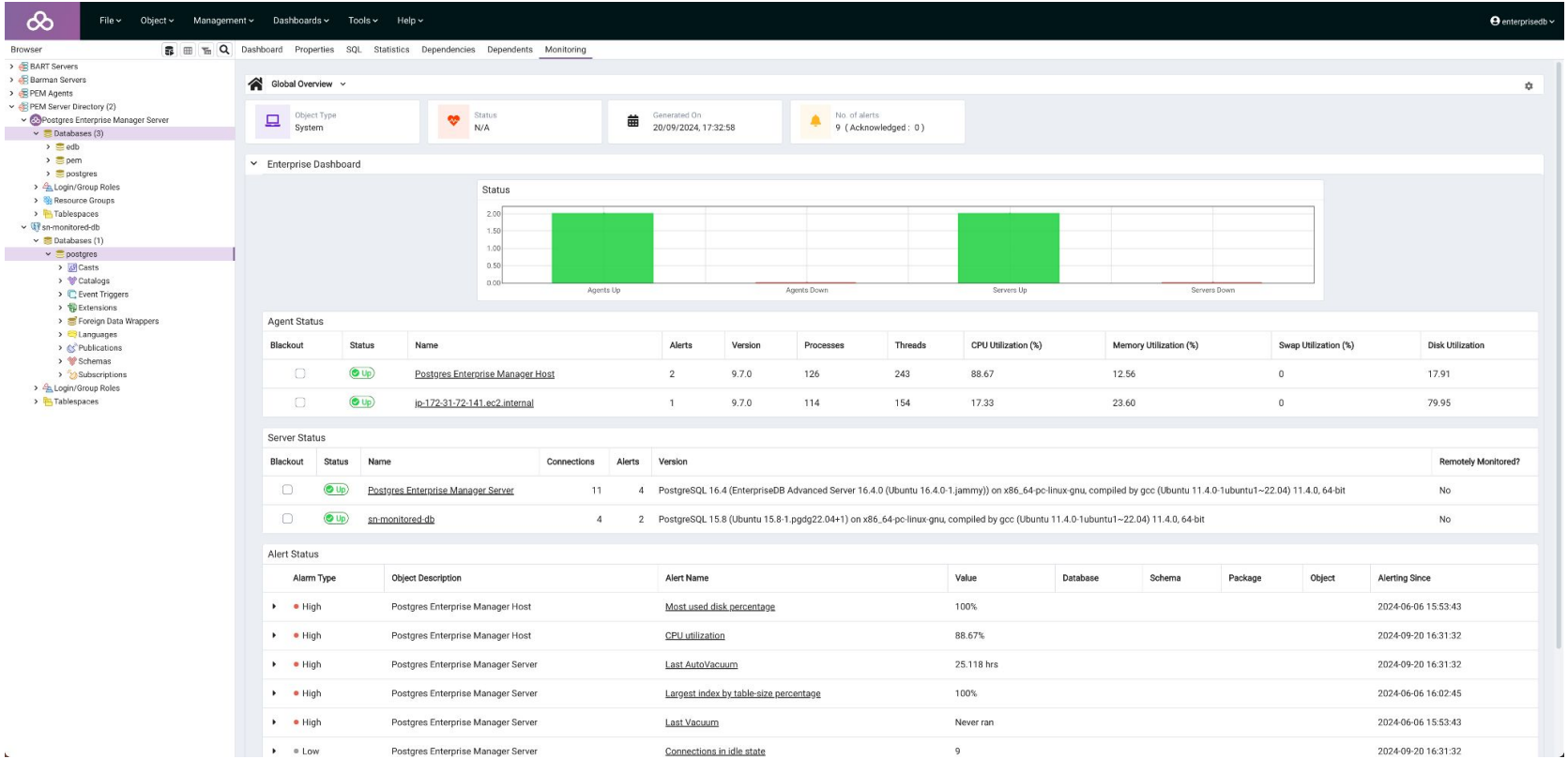


Query Diagnostics

- Detect bottleneck SQL queries
- Optimise with EDB Query Advisor



Postgres Enterprise Manager



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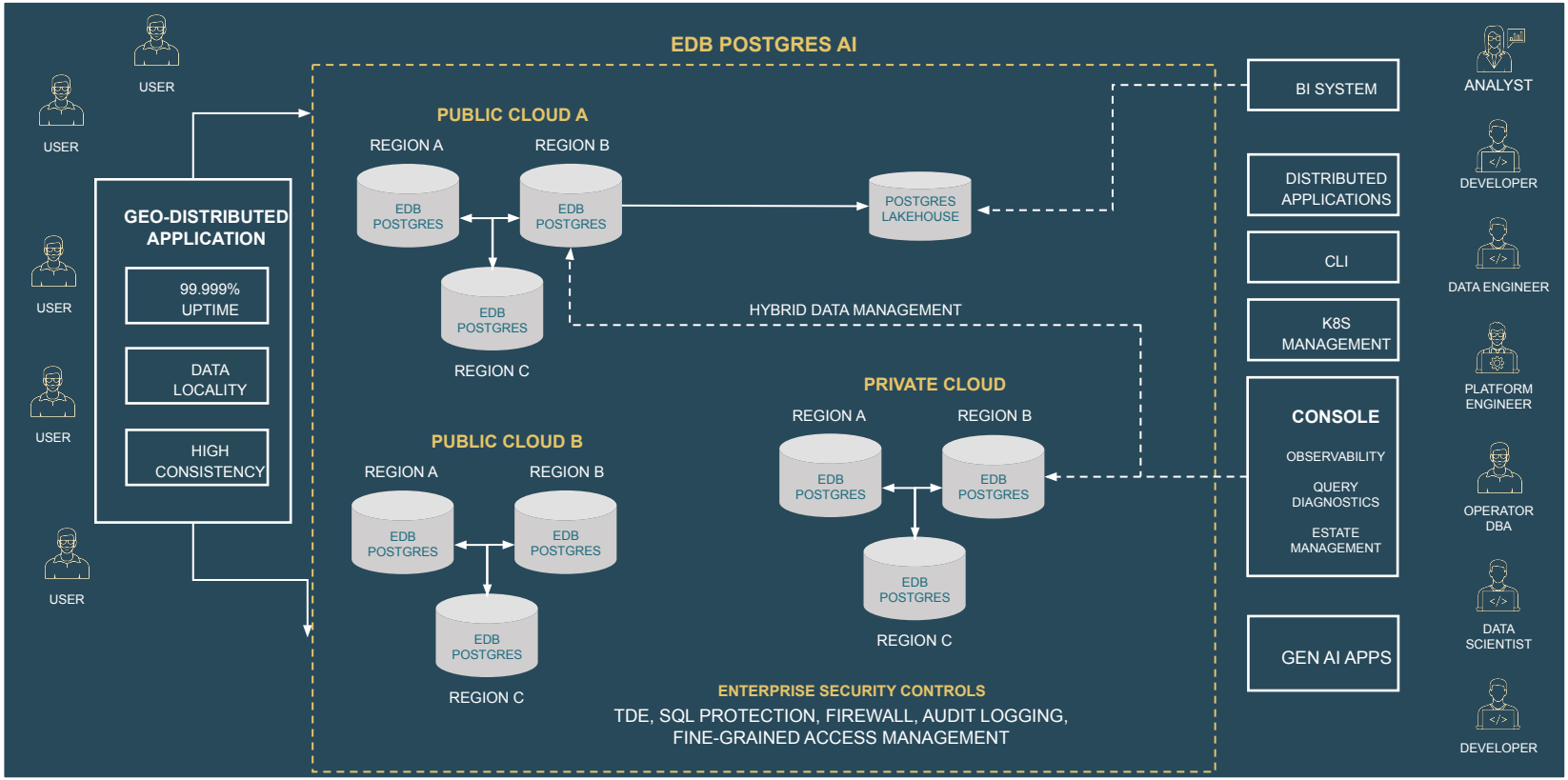

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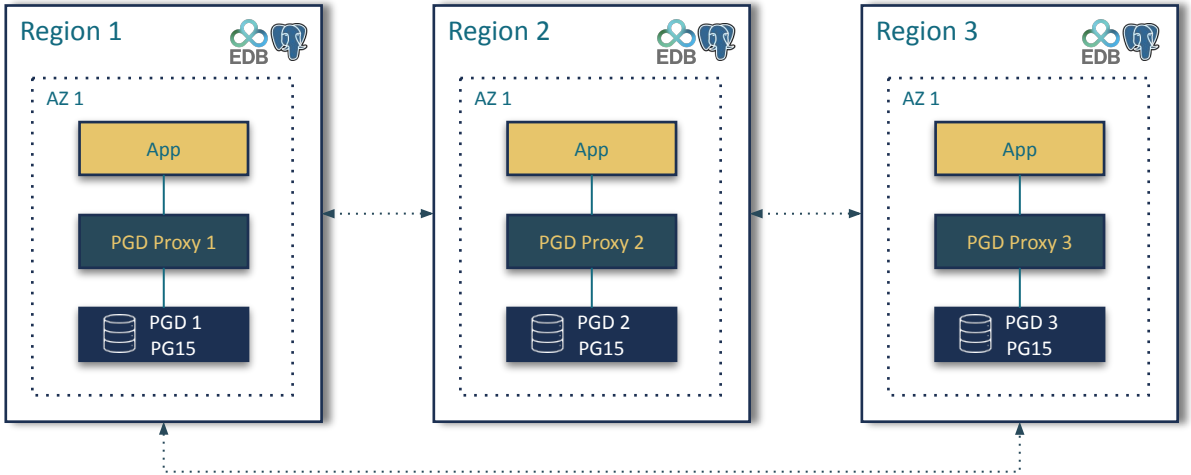
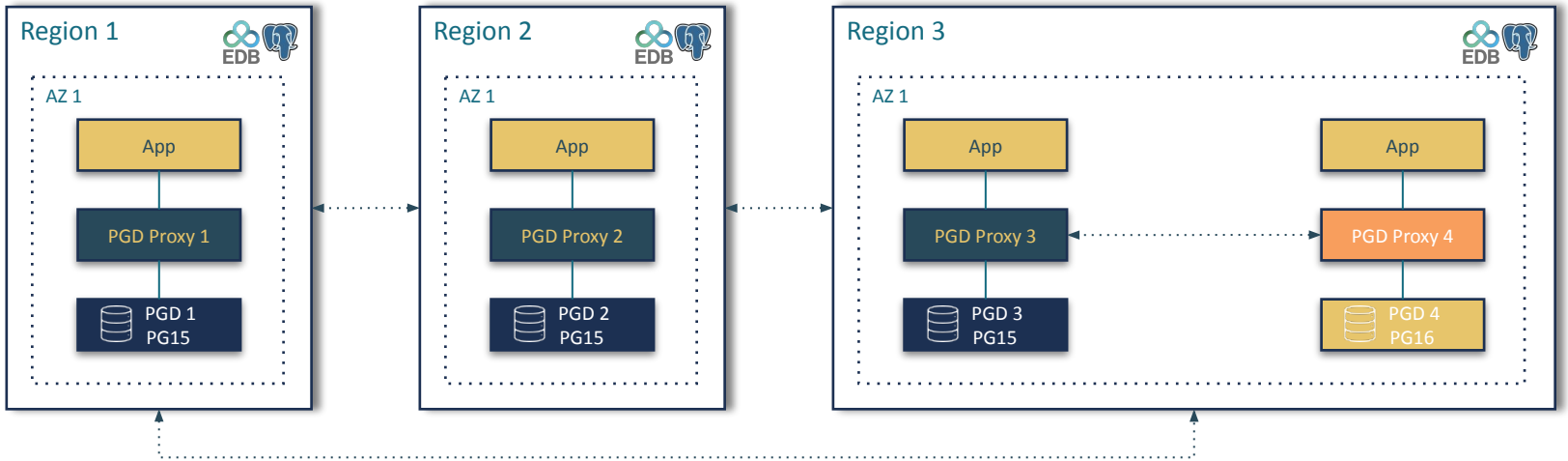


Use case: Rolling updates



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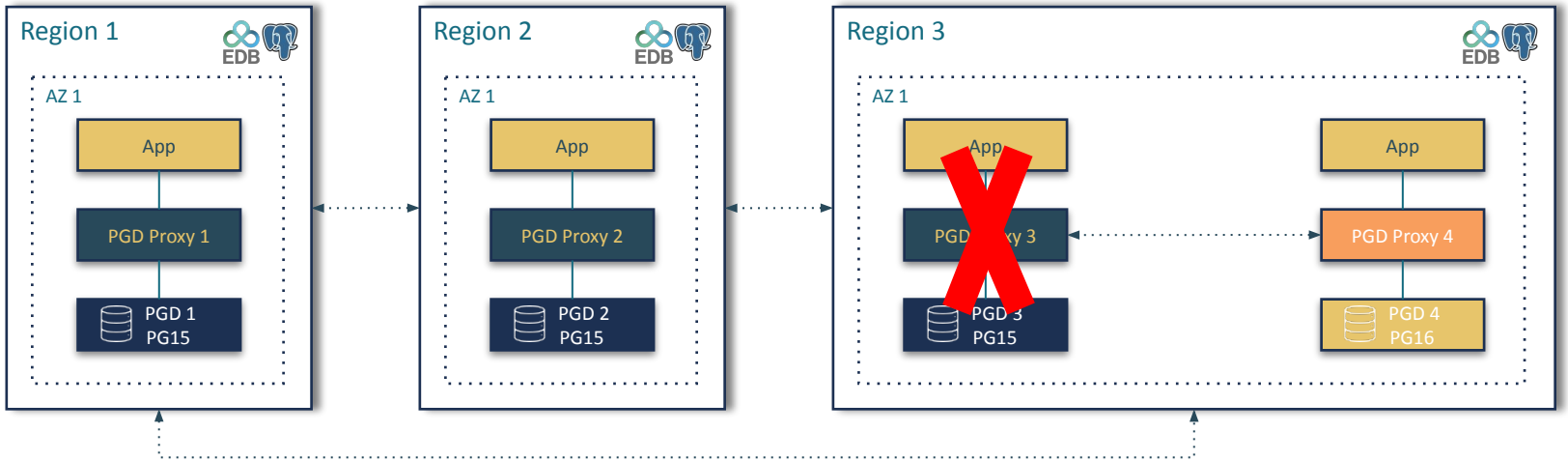

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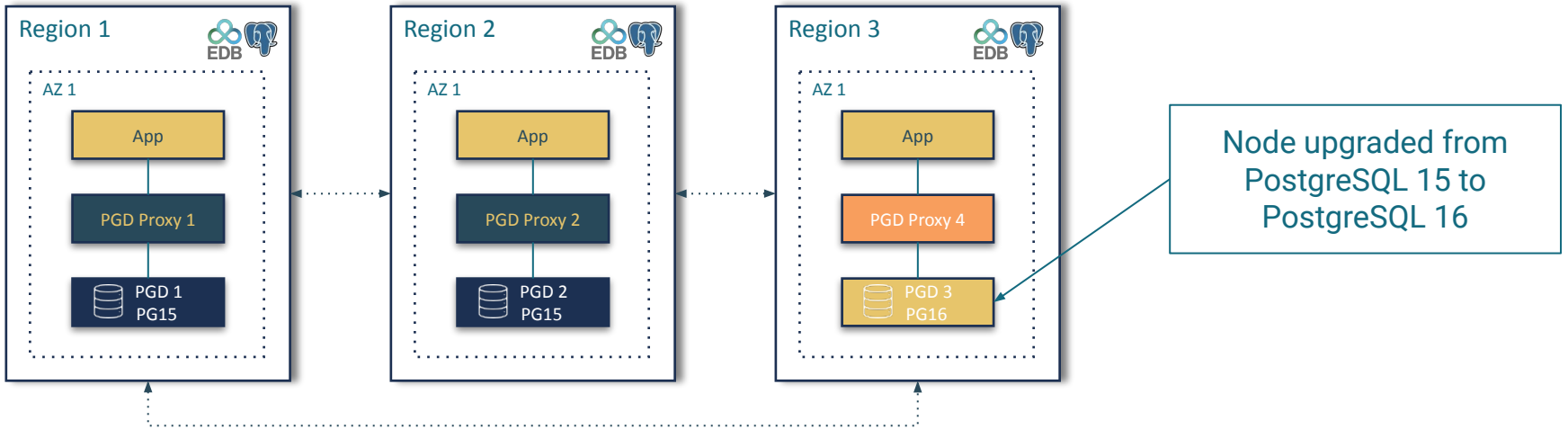

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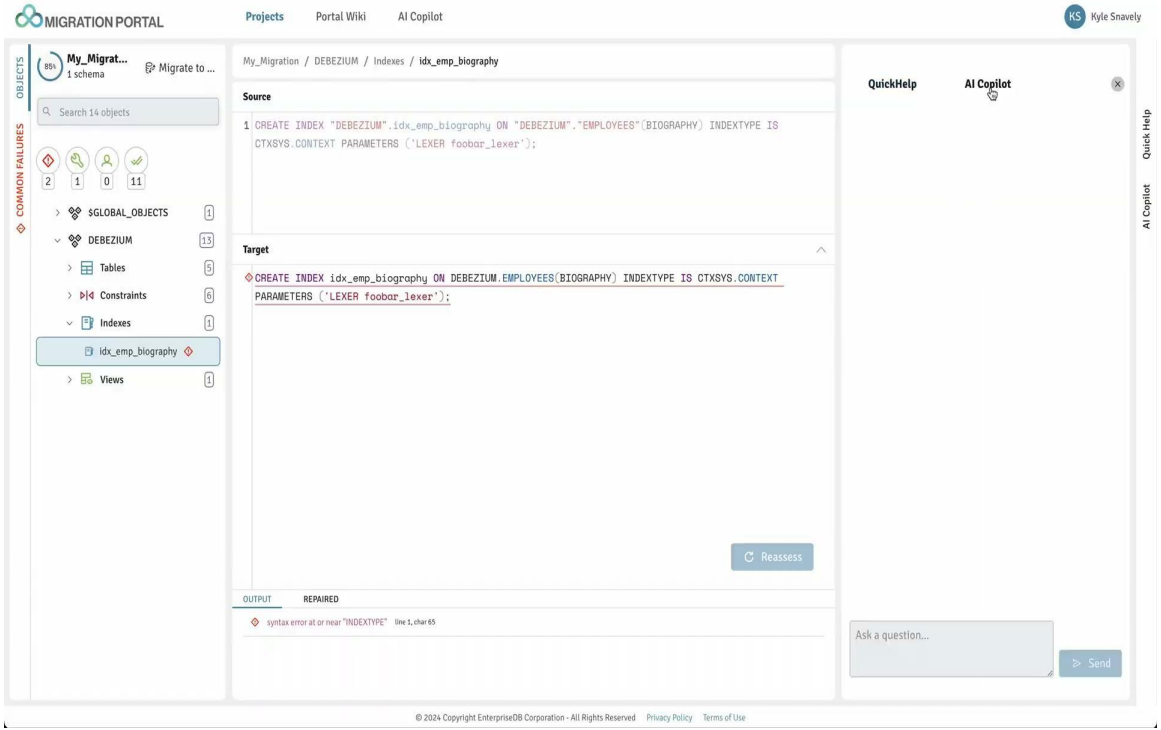
Migrations: Migration Portal + AI Co-pilot

Chat with an LLM to get help with assessing your schema migration and resolving compatibility issues



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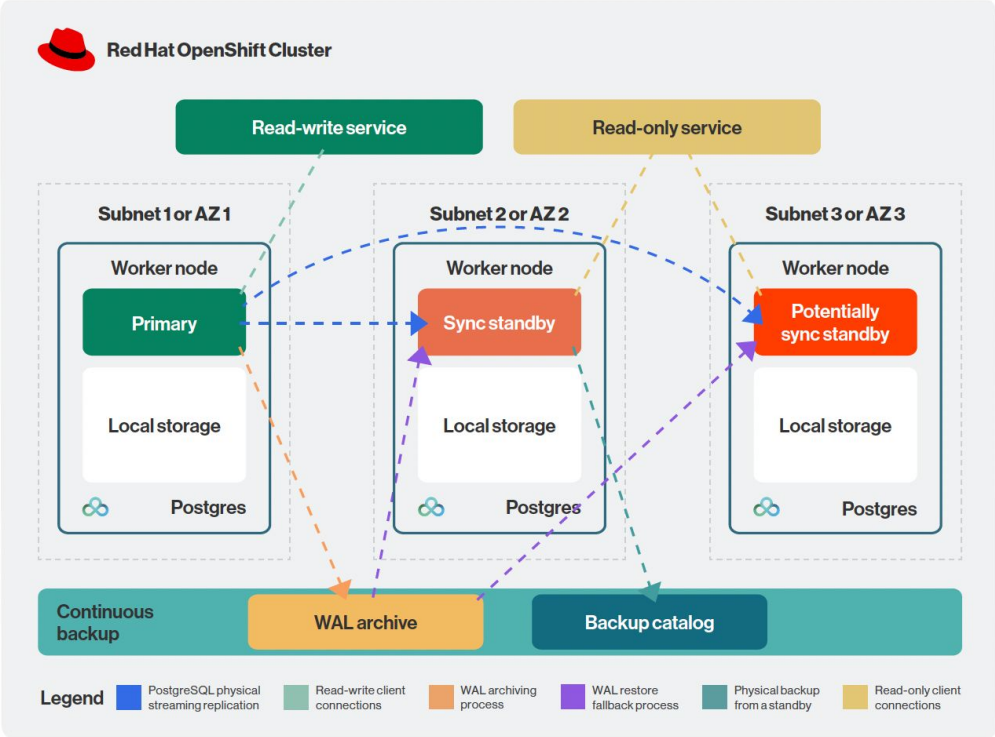
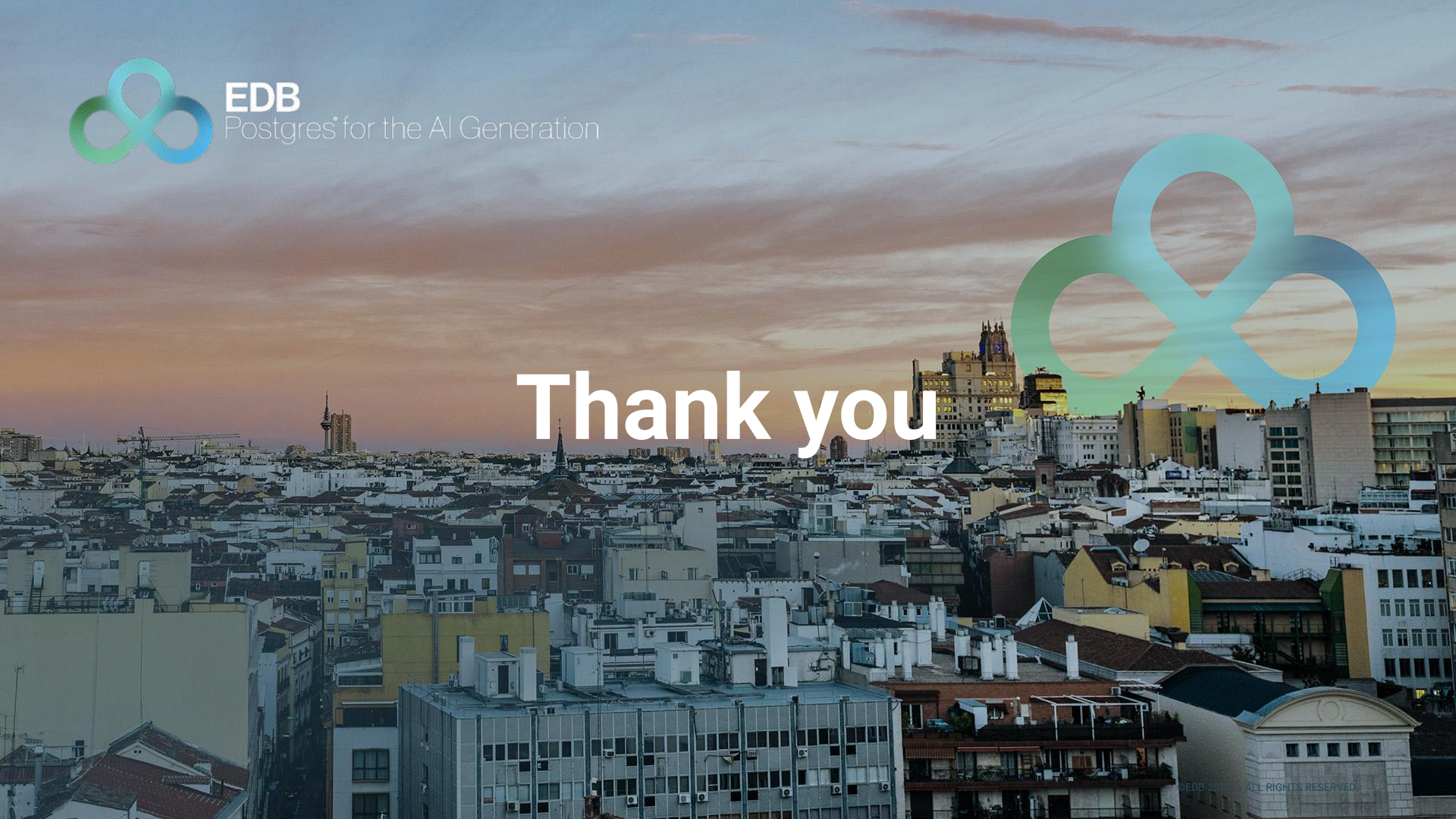
Kubernetes/Red Hat OpenShift





What we will deliver in Q4 - Database Server

EDB Postgres v17

Community Innovation and Leadership: EDB Postgres Extended (PGE) Server and EDB Postgres Advanced Server (EPAS) version 17 incorporates all changes and enhancements from the PostgreSQL 17 release, including major capabilities from EDB staff.

Support customers with large tables: Performance improvements compared to PostgreSQL for large partition counts in PGE and EPAS

Business Continuity (HA)

EDB Postgres Distributed (PGD) Lightweight Architecture: Deploy PGD with architectures that are similar to those you may already be familiar with such as Postgres Physical Streaming Replication or Oracle Data Guard Far Sync.

Enhanced Read Only Group Performance: Deploy larger read-only groups for servicing application queries while reducing the replication traffic through the PGD mesh

Secure Postgres

EDB as a Trusted Supply Chain for Postgres: Software Bill of Materials (SBOM) reports for EDB Postgres Advanced Server and EDB Postgres Distributed (PGD).

Compliance Ready Postgres: Deploy STIG and CIS compliant clusters with TPA, designed for adoption of Postgres in regulated industries

Enterprise Security Tech Partnerships: Update Partners page and EDB Docs for new supported keystores: Fortanix DSM and Entrust KeyControl