



AGENDA

13:30 Registration & Reception with Snacks

13:45 Welcome to the EDB Postgres Al Day

14:00 The EDB Postgres Roadmap - Accelerate Your Data Transformation

14:45 Postgres Analytics - Shaping the Future of App Development

15:30 Coffeebreak

16:00 EDB Postgres AI - PG for the 21st Century

16:45 Empowering Application Modernization of Legacy Systems with NDB e2e Database Management

17:15 Closing & Prize Draw

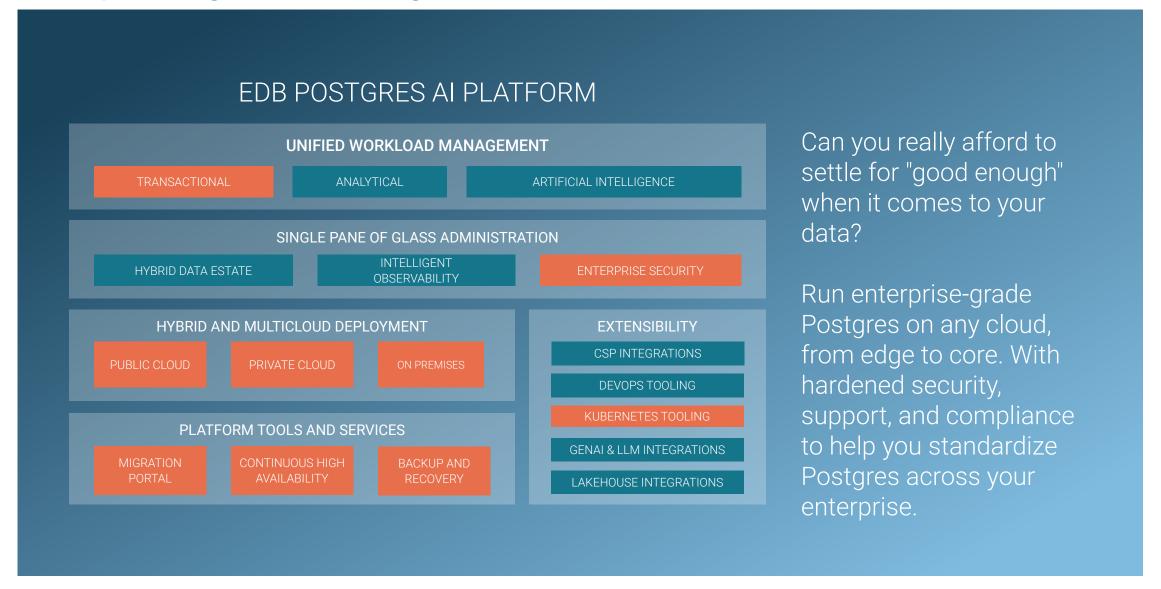
17:20 Drinks & finger food







Enterprise-grade Postgres







Reminder - EDB Postgres AI databases

PostgreSQL

Community 360

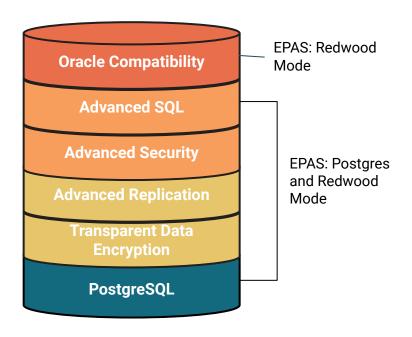
Advanced Security
(Coming Soon)

Advanced Replication

Transparent Data
Encryption

PostgreSQL

Standard
EDB Postgres
Extended (PGE)
Server



Enterprise
EDB Postgres
Advanced Server
(EPAS)



EDB contributions to PostgreSQL 17 (Released Last Month)

Backup and Recovery

Better Disaster Recovery with Incremental Backup

- Protects your database more efficiently, by only backing up what changes
- Enables more frequent backups of large databases
- Improves security by not requiring direct access to server files
- Protects against disasters and application errors

Developer Productivity/Flexible PG

Finished SQL:2023 SQL/JSON

 Support for latest SQL/JSON Standards

JSON_TABLE

 Easily work with JSON data using a table like interface

Performance Enhancements

Reduced Memory for Part-wise JOINs

Efficiently join large tables using less memory

NULL Constraint Improvements

Better execution plans with NULL constraint handling

Business Logic and Replication

Helping EDB customers with Complex Business Logic

 Simplify complex logic with improved subtraction support

Convert Physical Replica to Logical Replica

 Robust way to initialize logical replication for large datasets with pg_create_subscriber



Database Extensions and Tools

Q3 2024 (Tools and Extensions)

Better support for UPDATE heavy workloads by removing bloat

Support for pg_squeeze

Seamlessly Convert Postgres Databases into a RESTful API

Support for PostgREST

Q4 2024 (Tools and Extensions)

EDB Query Advisor extended to include extended table statistics

 EDB Query Advisor goes beyond indexes and provide actionable recommendation for extended table statistics for more accurate query plans.

Reducing rewrites when transitioning from Oracle to Postgres

 Support for PGTT (Oracle-style Global Temporary Tables)



EDB Postgres Advanced Server (EPAS) 17

Merge with Upstream PostgreSQL

Community Enhancements

- Incremental backup
- SQL/JSON orthogonality
- JSON_TABLE
- Reduced memory for partition wise JOINs
- ALTER TABLE to mod. exper of gen columns
- Subtransaction SLRU enhancements
- Logical replication improvements
- Partitioning enhancements (MERGE PARTITION, SPLIT PARTITION)
- Identity columns
- ALTER SYSTEM improvements,
- New pg_maintain role

and more...

Simplify Migrations for Legacy Oracle Applications

XMLType Support

 Enable support for Oracle XML packages and additional XML-related features, reducing rewrites for legacy applications

BFILE Support

 Allows for the migration of business logic in the database for binary files, such as graphics, documents, and multimedia, with fewer rewrites, ensuring a smooth transition from Oracle to EPAS.

Oracle Compatibility Enhancements

Oracle Compatibility enhancements

 NLS_UPPER, NLS_LOWER, NLS_INITCAP, SAVE EXCEPTION FOR ALL, FOR ALL MERGE

Customer Requests and Miscellaneous

- JSON Support for EDB Audit Log
- Directory Permissions
- EDB Loader Improvements
- OCI Import Foreign Schema
- Conceal Password







Software Bill of Materials (SBOM)

Q4 2024

What is it?

- EDB will provide SBOM reports directly in its software repositories.
- These comprehensive reports offer detailed inventory of components and dependencies that comprise a software packages.

What are the customer benefits?

- Helps address the challenge of identifying and mitigating security vulnerabilities in Postgres deployments
- Reduces the effort to track dependencies, licensing, and vulnerabilities





(\$\$\$)

Automate compliance standards with Postgres from EDB

Q4 2024

What is it?

- TPA (Trusted Postgres Architect) will provide STIG and CIS options that can be specified when configuring a Postgres cluster.
- Choosing one of these options:
 - Adds relevant Postgres config options to your cluster
 - Enforces other aspects of the relevant standard

What are the customer benefits?

- Industry security standard controls are provided in large docs (100+ pages)
 - Labor-intensive and error-prone process to implement
 - Increased risk of misconfiguration and incomplete implementation
- Choosing one of these TPA options:
 - Reduces misconfiguration risk
 - No longer requires manual changes
 - Saves time
 - Enables new features in TPA



2025 and Beyond

Security

Data Masking (EDB Tools)

- Protect sensitive information in lower IT environments (Test & Dev) for internal ops and safe sharing with trusted 3rd parties
- EDB Data Masking will provide an intuitive way to protect Personally Identifiable Information (PII) - such as names, social security numbers, credit card details, mailing addresses — with masking policies on specific columns
- Additional capability to preserve masking policy when cloning the entire schema to another Postgres instance

Scalability

Global Indexes for Partitions (PG+)

- Large partitions counts in Postgres are often slower than regular tables when applications require filtering on the non partition key.
- Often table partitioning is used not only to improve performance, but implement business logic and data retention policies.
- With global indexes, queries that don't filter on the partition key will be better performant and data structures will not need to be changed.

Flexible Postgres

Native Graph capabilities

- SQL standard "Property Graph Queries (SQL/PGQ)" will be in Postgres core, allowing data in Postgres tables to be queried as if it were a graph database
- This eliminates the need to bring in specialty databases and just use Postgres when needing to query complex relationship between data and entities



Q & A



Thankyou





Agenda



Agenda

- Who is EDB?
- EDB for Analytics & Al
 - PG Analytics Accelerator
 - Demos
 - o AIDB
 - Demos
- Conclusion
- Q&A

Who is EDB?

1600+ 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

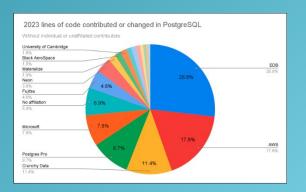
Long-term customers and deep Postgres capabilities.

3 of 7 Postgres Core Team Members, 7 Committers, 40+ Contributors

EDB is the leading Postgres community contributor.

27% of Postgres Code Contributed in 2023

Driving the innovation and foundation of Postgres.



>300 Dedicated Postgres engineers

Unparalleled expertise in Postgres.

LEADING ENTERPRISES TRUST EDB

BANKING FINANCIAL

TECHNOLOGY

TELCO



































































verizon/



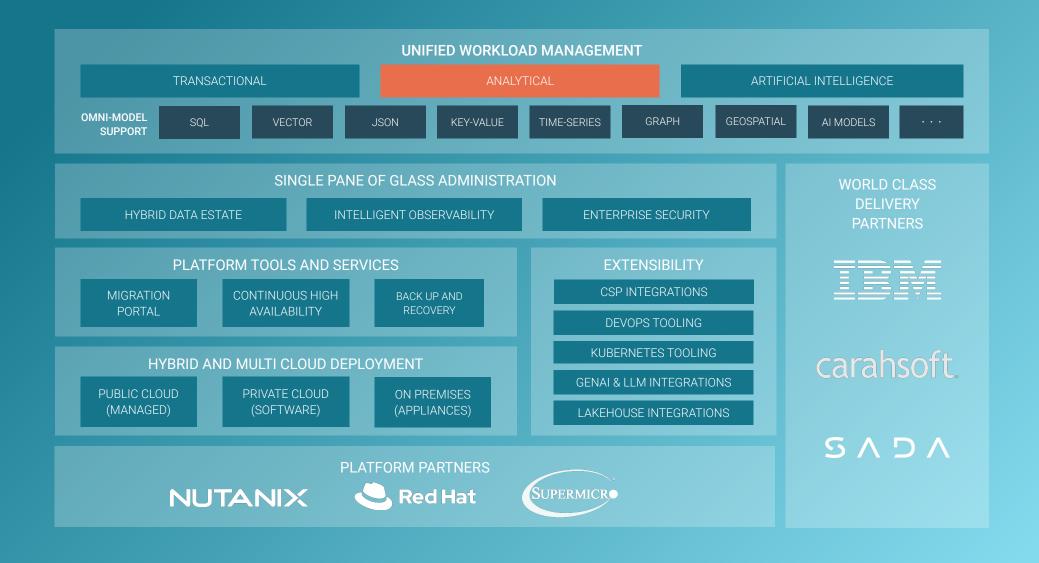
PG Analytics Accelerator



One platform for Transactional, one platform for Analytical, and one platform for Al.



The EDB Postgres Al Platform



EDB POSTGRES AI CONTROL **LAKE HOUSE** PLANE Provision, Manage, **Data Sync Postgres** Maintain Clusters Postgres Clusters **Migration Tools Postgres** Clusters **Analytics** Observability Clusters **Postgres** Clusters Discover, Observe Customer¹ Managed Postgres **On-Premises** DEVELOPER **Public Cloud** Customer Managed **ORACLE** Postgres

Legend

Transactional Capabilities

Existing but extended capability

New Capability

High-Performance Analytics: Extremely

Fast Queries

Key Business Challenges Addressed by PGAA

Cost-Effective Solution: Lower

Ownerships Costs & Ease of Use

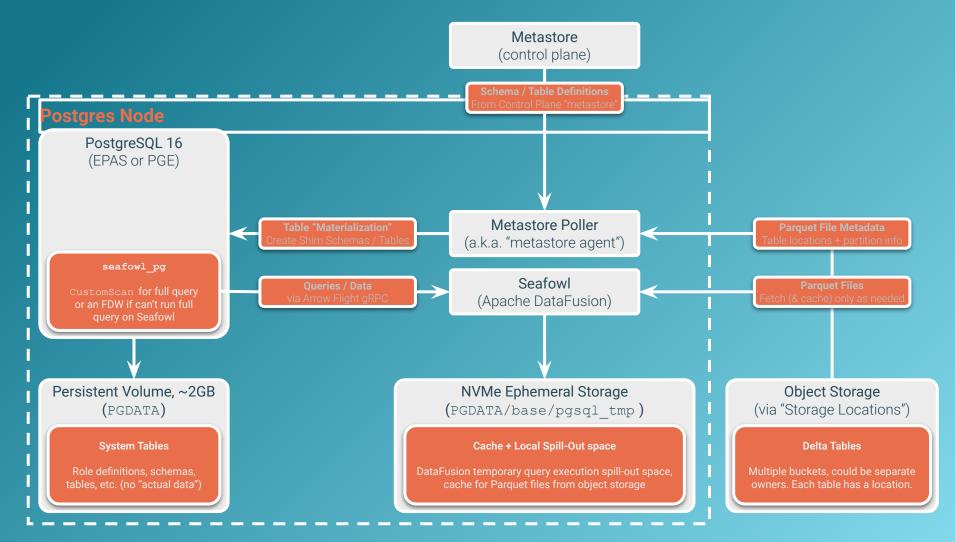
Real-Time Data Insights: Efficient Data

Processing & Open Data Formats

Simplified Data Management: Remove complexity of Data Tuning, No Index..

PGAA — Postgres Analytics Accelerator

PGAA is a Postgres extension with a Vectorized Query Engine for querying Lakehouse Tables in external storage locations



PGAA — Postgres Analytics Accelerator

PGAA is a Postgres extension for rapid analytics:

 PGAA separates storage from compute, and includes support for S3, MinIO or the local filesystem:

```
SELECT pgaa.create_storage_location('sample-data', 's3://pgaa-sample-data-eu-west-1');
```

PGAA makes Lakehouse Tables (Delta Lake) queryable just like any Postgres table:

```
CREATE TABLE public.customer () USING PGAA
WITH (pgaa.storage_location = 'sample-data', pgaa.path = 'tpch_sf_1/customer');
```

 PGAA has a Vectorized Query Engine for 30x faster queries compared to transactional Postgres:

```
SELECT count(*) AS num_customers from customer;
```

It's a Postgres frontend to the external Lakehouse ecosystem.

But when combined with PGD, it becomes a real-time analytics solution..



PGD + PGAA — Real-time Analytics for Postgres

PGD now ships with an embedded analytics engine, powered by PGAA:

Replicate transactional tables directly to Lakehouse Tables:

```
CREATE TABLE x(a INT PRIMARY KEY) WITH (pgd.replicate_to_analytics = true);
```

Optionally, query tables with the analytical engine:

```
SET LOCAL bdr.prefer_analytics_engine=true;
SELECT * FROM x;
```

• Create **Tiered Tables** that offload storage and processing of "cold" data to analytics:

```
CREATE TABLE test_part_timestamp (a timestamp, b int ) PARTITION BY RANGE (a);
SELECT bdr.autopartition(
    relation := 'test_part_timestamp',
    partition_increment := '1 month',
    partition_initial_lowerbound := CURRENT_TIMESTAMP::text,
    managed_locally := true,
    analytics_offload_period := '3 months');
```



Tiered Tables — Control Storage Costs & Protect Transactions

Transparently offload storage and processing of "cold" data to a separate analytical system & reduce table size on disk

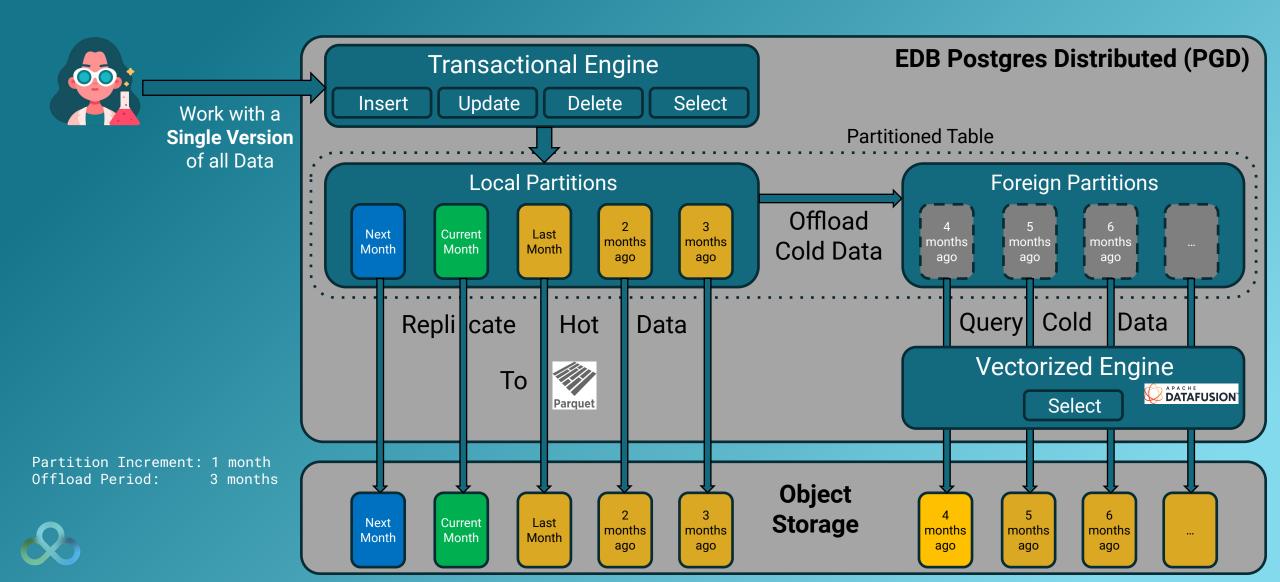


Table Objects in PG Analytics Accelerator

		Source of Truth	Which Data is in Postgres?	Which Data is in Storage Location?	Query with Analytical Engine?
Transactional Table	Read/write	Postgres	All	None	No
Just a normal Postgres table	CREATE TABLE cities (city_id bigserial NOT NULL PRIMARY KEY, name text NOT NULL, population bigint);				
External Lakehouse Table	Read-only	External	None	All	Yes
Delta Table outside of Postgres in a Storage Location (S3/FS)	CREATE TABLE tpch_sf_1000_lfs.lineitem () USING pgaa WITH (pgaa.storage_location = 'local-fs-1000', pgaa.path = 'lineitem'); SELECT COUNT(*) FROM tpch_sf_1000_lfs.lineitem;				
HTAP Table	Read/write	Local	All	Replicated	Yes, with lag
Postgres table that is replicated to a Delta Table in a Storage Location	CREATE TABLE cities (city_id bigserial NOT NULL PRIMARY KEY, name text NOT NULL, population bigint) WITH (pgd.replicate_to_analytics = true, pgfs.server = 'my_ai_lakehouse', pgfs.path = 'parquet/table1/'); SET LOCAL bdr.prefer_analytics_engine=true; SELECT COUNT(*) FROM cities;				
Tiered Table	Read/write	Local	Hot Partitions	Cold Partitions	Yes, via partitions
Partitioned table with "hot" data in local Postgres and "cold" data offloaded to a Storage Location	CREATE TABLE test_part_timestamp (a timestamp, b int) PARTITION BY RANGE (a); SELECT bdr.autopartition(relation := 'test_part_timestamp', managed_locally := true,				
Volume Table	Read-only	External	None	All	No
Special table for listing the contents of a storage location (S3 or FS)	CREATE FOREIGN TABLE my_pdf_volume () SERVER my_ai_lakehouse OPTIONS (path 'pdf/', mime_type 'application/pdf');				



How to Work with PGAA

- 1. Add EDB Extension
- Define Storage Location using S3 or Local Storage
- 3. Migrate Data to Delta Table Format
- 4. Create Table
- 5. Run Queries

No Index, No Tuning

./lakehouse-loader pg-to-delta postgres://postgres@localhost:5432/postgres?sslmode=disable -q
"SELECT L_ORDERKEY, L_PARTKEY, L_SUPPKEY, L_LINENUMBER, L_QUANTITY, L_EXTENDEDPRICE,
L_DISCOUNT, L_TAX, L_RETURNFLAG::TEXT AS L_RETURNFLAG, L_LINESTATUS::TEXT AS
L_LINESTATUS, L_SHIPDATE, L_COMMITDATE, L_RECEIPTDATE, L_SHIPINSTRUCT::TEXT AS
L_SHIPINSTRUCT, L_SHIPMODE::TEXT AS L_SHIPMODE, L_COMMENT::TEXT AS L_COMMENT from
tpch_sf_1000.lineitem" file:///mnt/raid/parquet/1000/lineitem

```
create table tpch_sf_1000_lfs.lineitem () using PGAA WITH
  (pgaa.storage_location = 'local-fs-1000', pgaa.path =
    'lineitem');

postgres=# \timing
  Timing is on.
  postgres=# select count(*) from tpch_sf_1000_lfs.lineitem;
    count
-------
    5999989709
  (1 row)

Time: 121.911 ms
  postgres=#
```



Explore a 6 Billion Rows Dataset in a matter of a few seconds with PG Analytics Accelerator







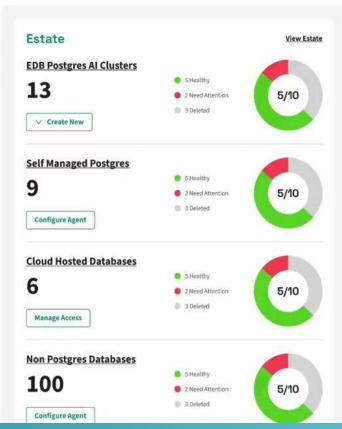


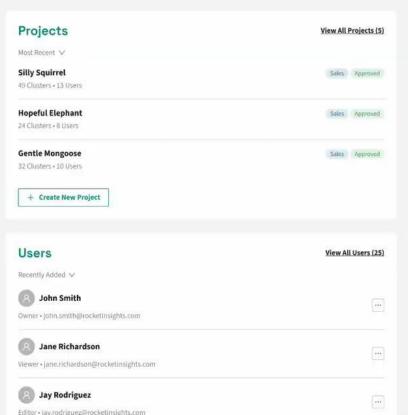


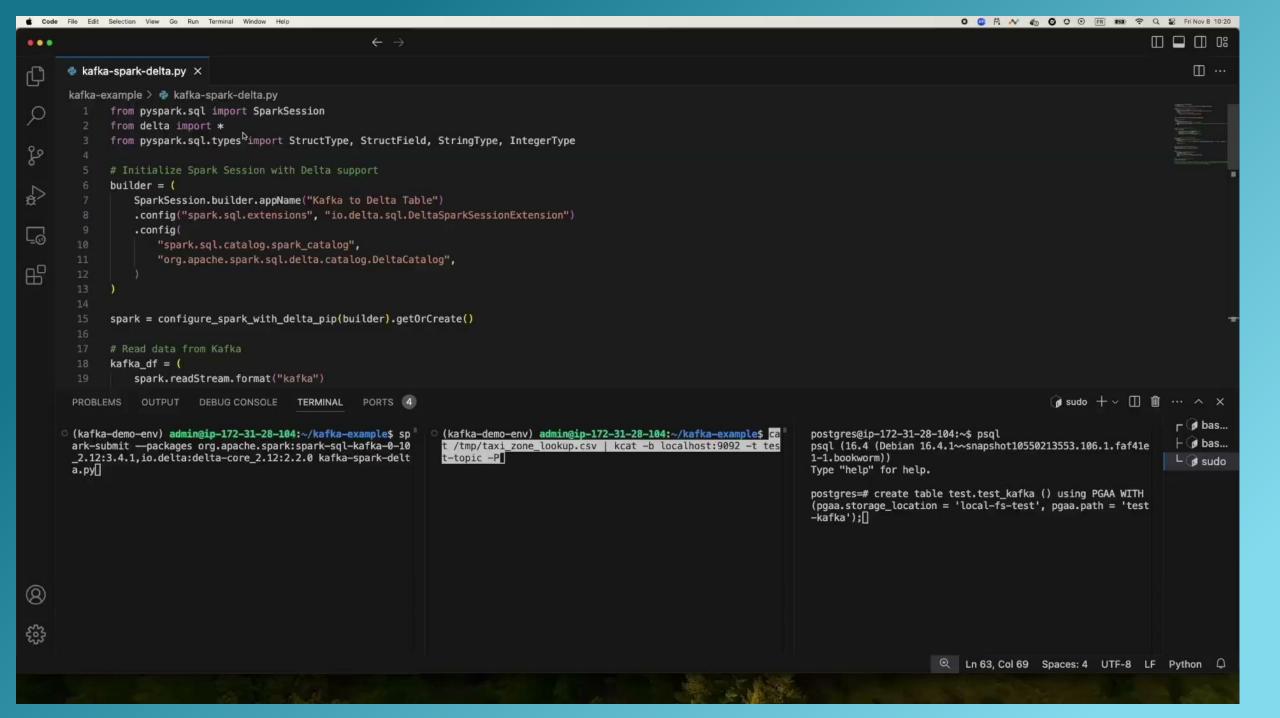
Single Pane of Glass

Say farewell to data juggling and welcome clarity. Experience seamless data management through a single pane of glass, where insights and metrics are effortlessly within reach.

Learn More







Reduced total cost of ownership by decoupling compute and storage.

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

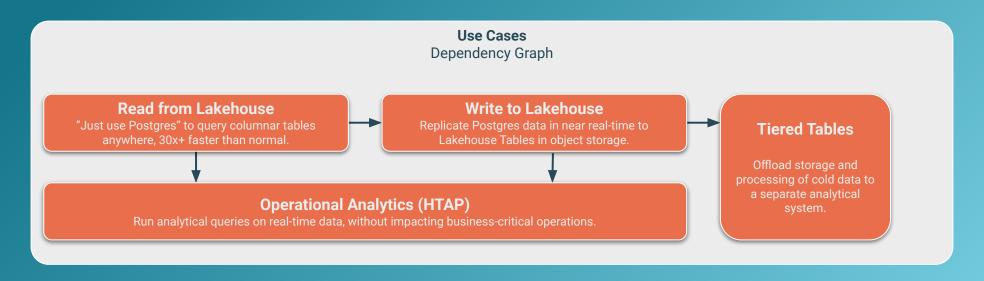
5X smaller on disk Lakehouse tables vs. Postgres tables and indexes

18X cost-effective

Object storage vs. solid state drives (SSDs)

What do we have now, and what's next?

Up Next: Tiered Tables preview release is the next step on "the road to HTAP"



H1: Shipped Q4: Preview H1 2025: Up Next

PGAA: Read from Lakehouse

"Just use Postgres" to query columnar tables anywhere, 30x+ faster than normal.

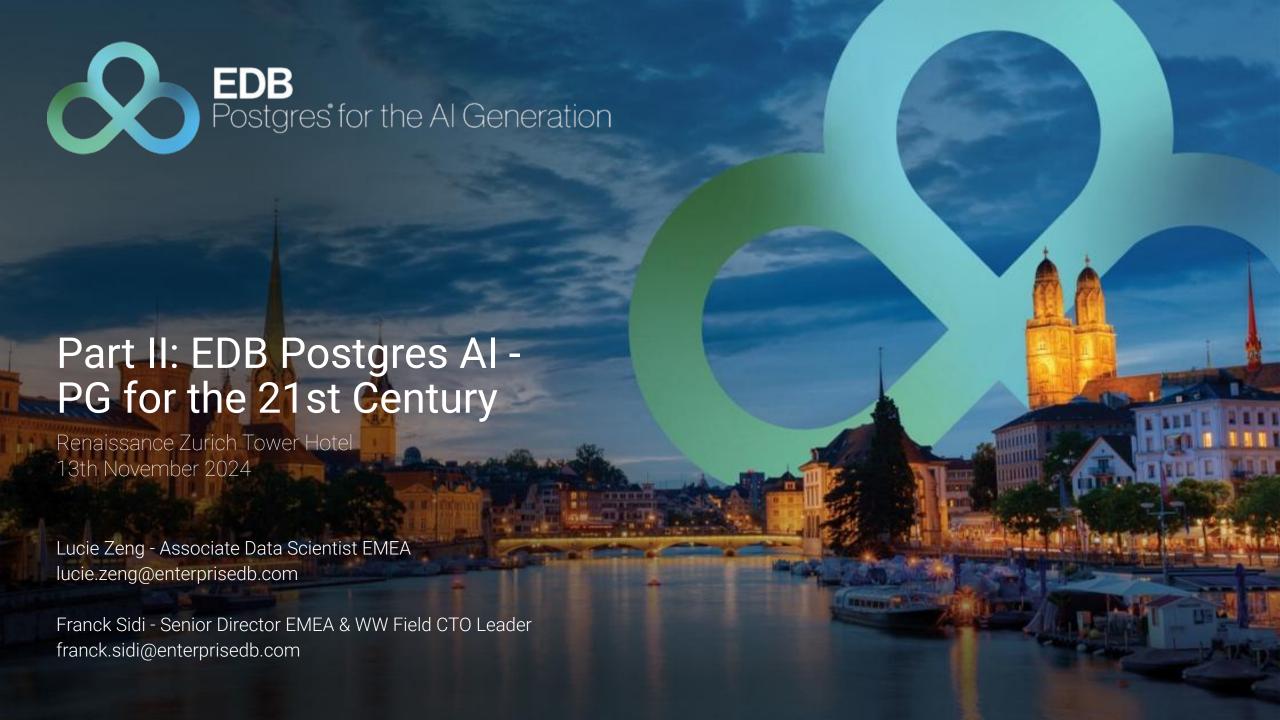
PGAA+PGD: Tiered Tables

Offload storage and processing of "cold" data to a separate analytical system

Continuous Replication & HTAP

Replicate and query Postgres data in near real-time to Lakehouse Tables in object storage.

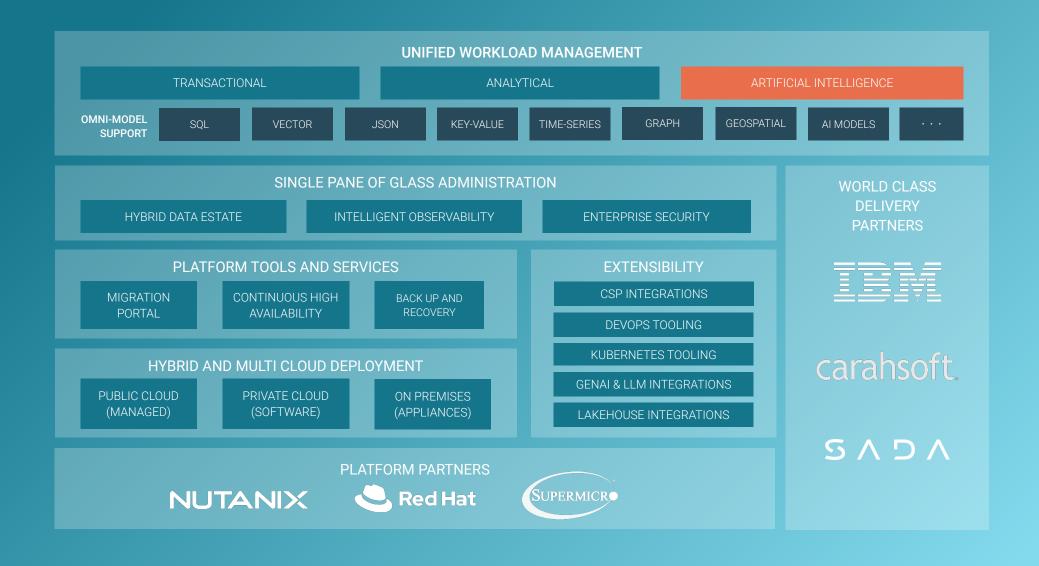




EDB AI

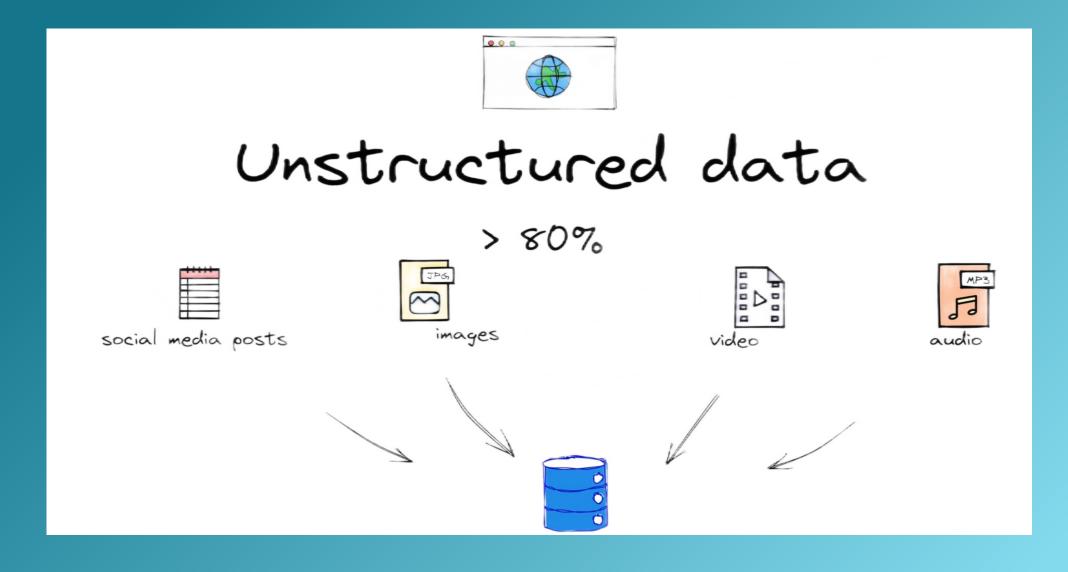


The EDB Postgres Al Platform

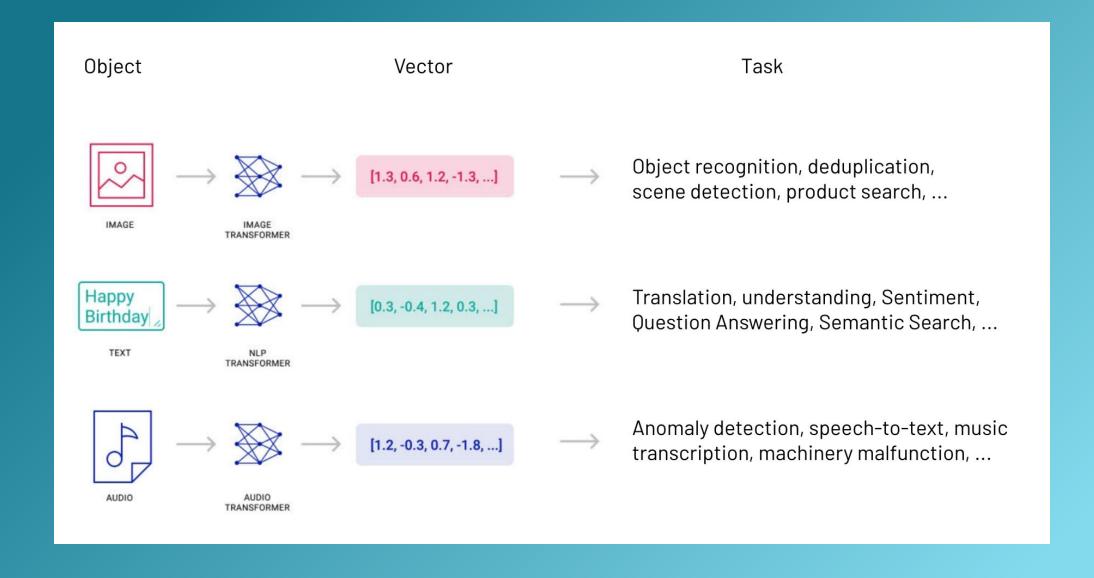


What is PostgreSQL after pg vector extension for a DBA vs Al Scientist?

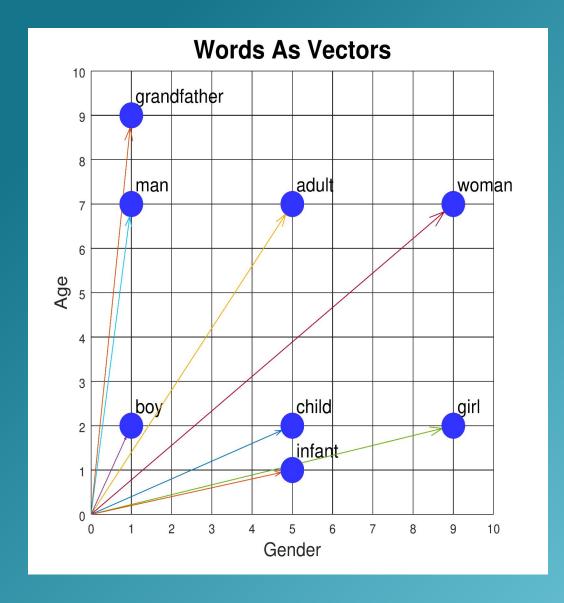
How to analyse Unstructured Data?



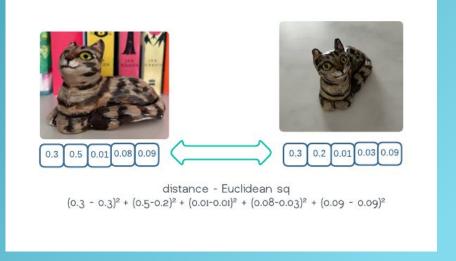
How are data & vectors connected to each other?



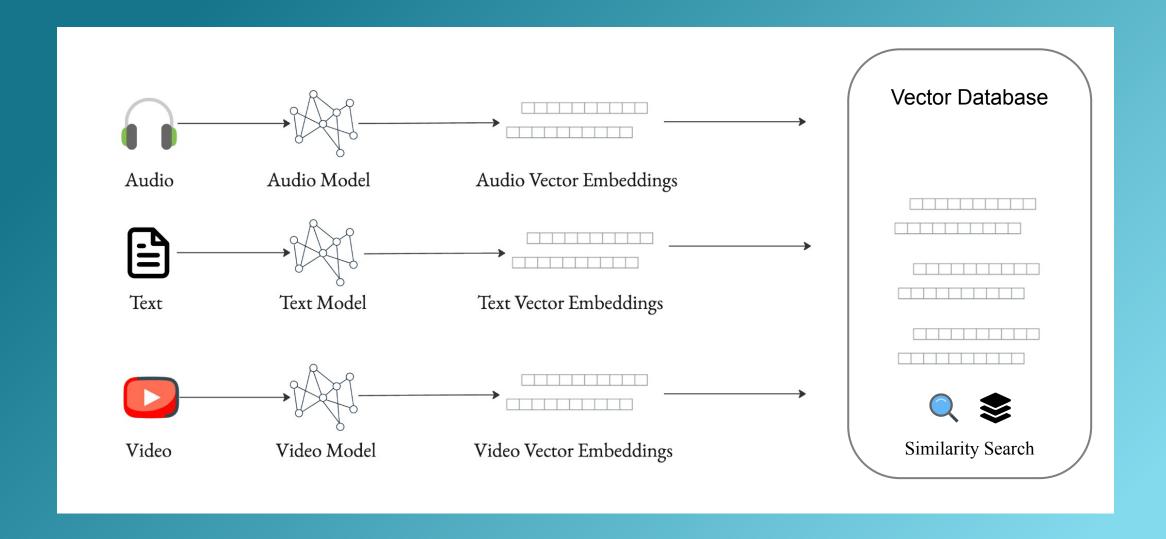
Similarity Search



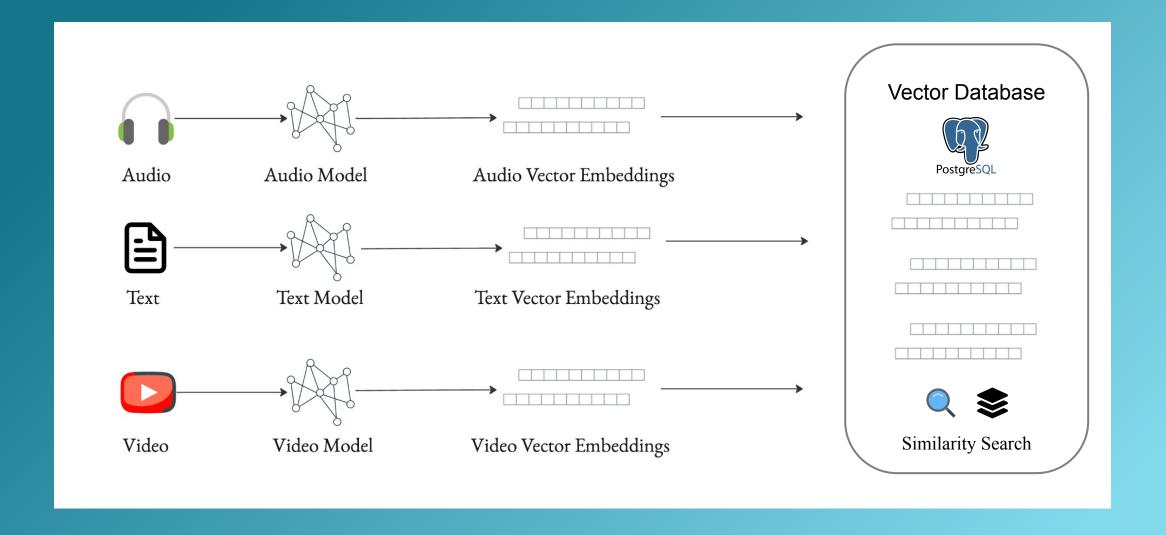




How are data & vectors connected to each other?



How are data & vectors connected to each other?



pgVector Use Cases Overview

Use Cases

- Conversational Assistance
- Chatbot
- Semantic search
- Visual and Semantic search for images
- Speech recognition and audio search (e.g. call center audio logs)
- Real-time and personalized search experience
- ...

Content examples

- Documents (contracts, user guides, product/technical documentation, policies, CVs...)
- Emails
- Intranet documents (e.g. sharepoint, ...)
-

Models and Vector DB benefits

 Core for vector similarity search that provides fast and scalable (with improved accuracy) experience

Generative Al Use Cases



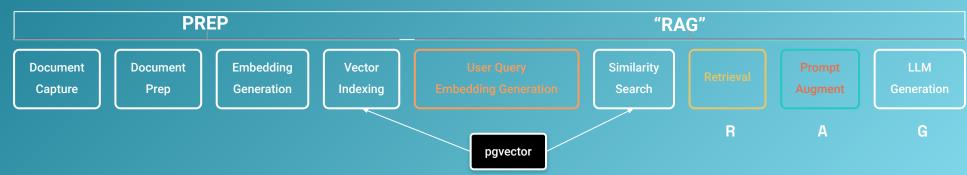
GenAl Applications are the dominant focus of investment across the IT Industry today.



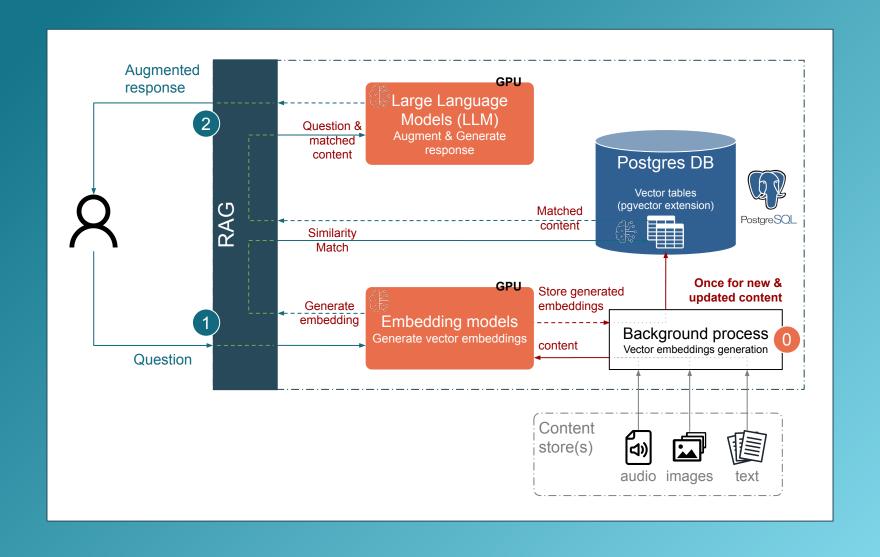
GenAl Applications are *data centric*, complex, and the solutions are *nascent* and largely piecemeal.

"There is not a defacto enterprise grade standard"

<u>@@</u>



RAG (Retrieval Augmented Generation) Overview



RAG Interactions - detailed flow

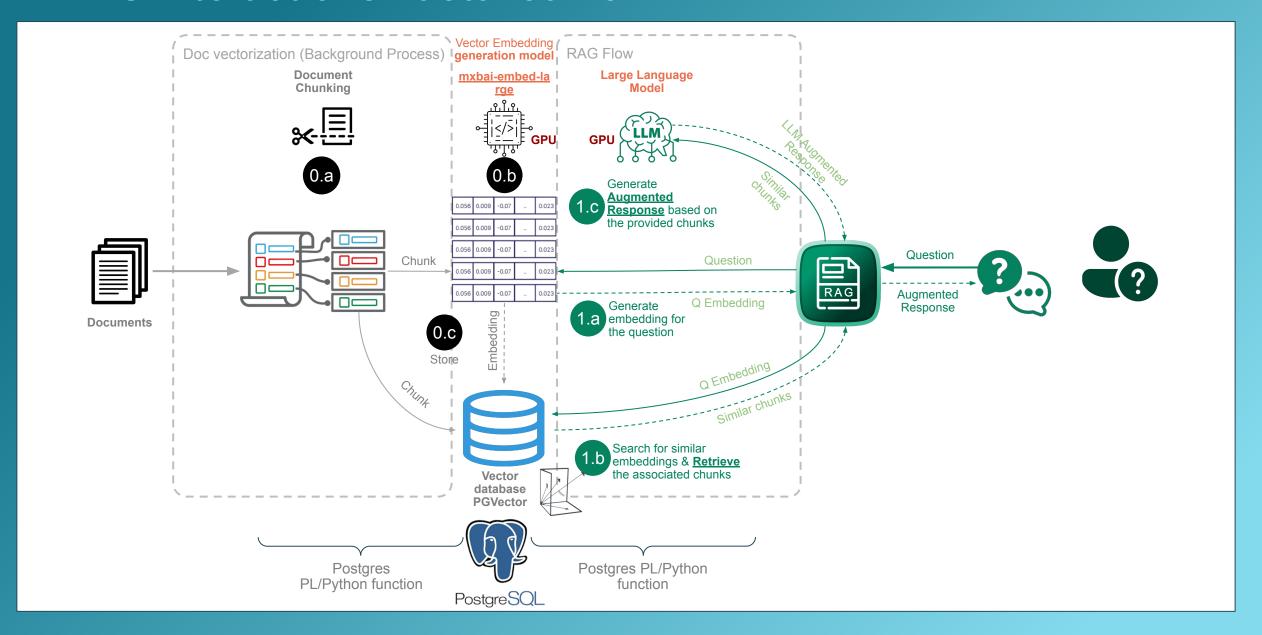
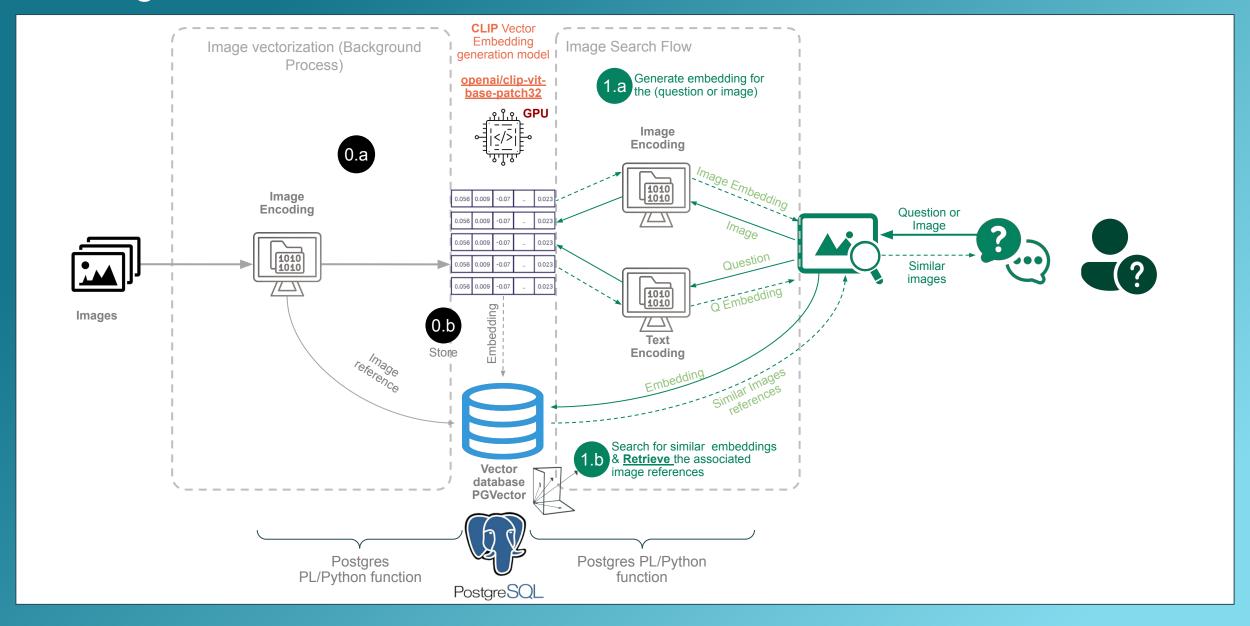
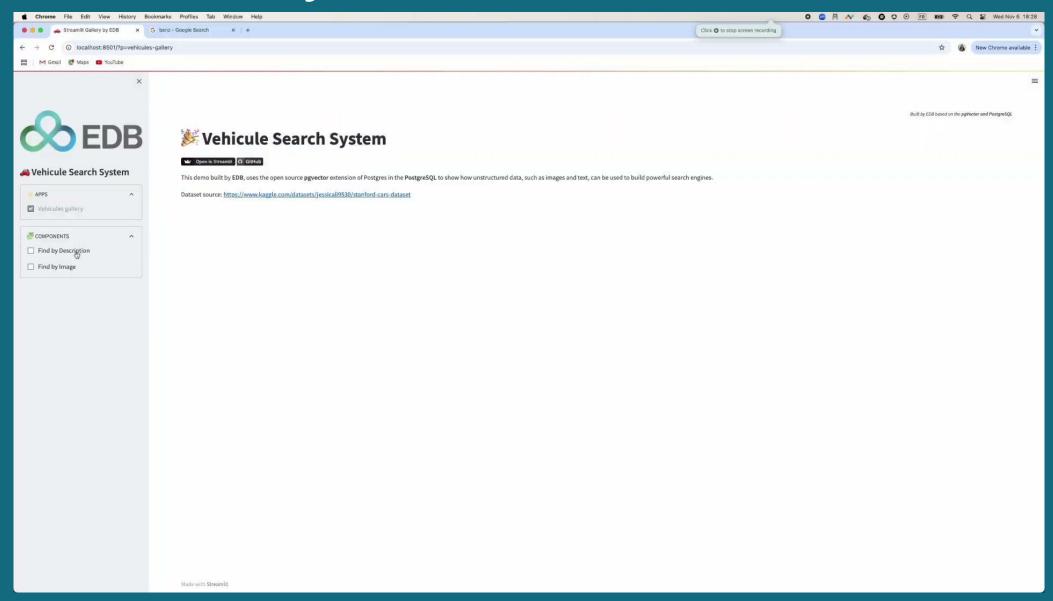


Image Search Interactions - detailed flow

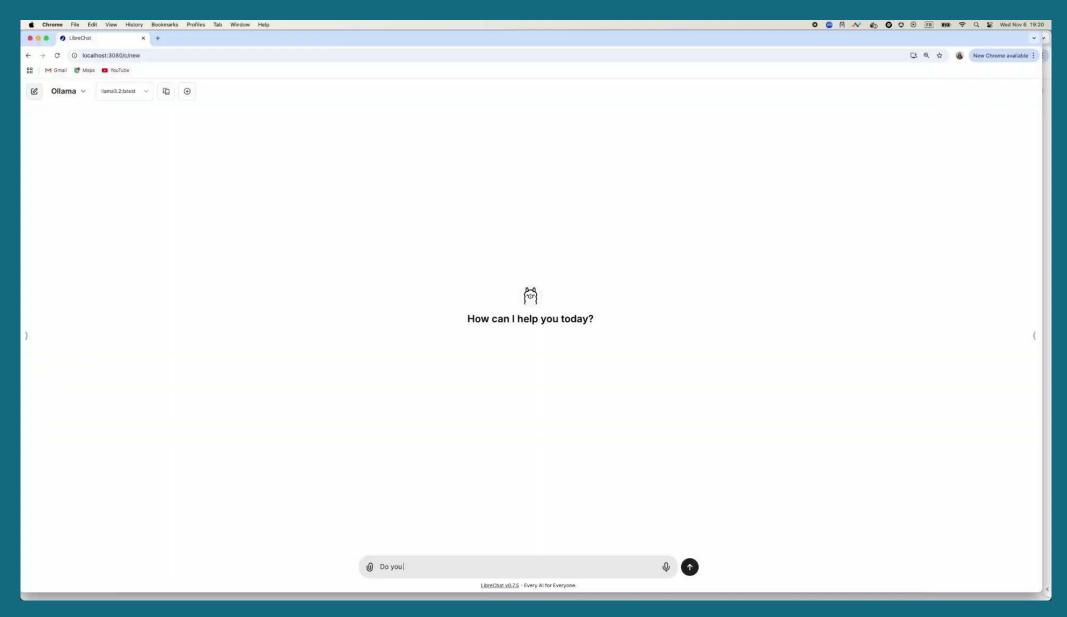


Demo Similarity Search





Demo RAG





What about aidb?



aidb Extension

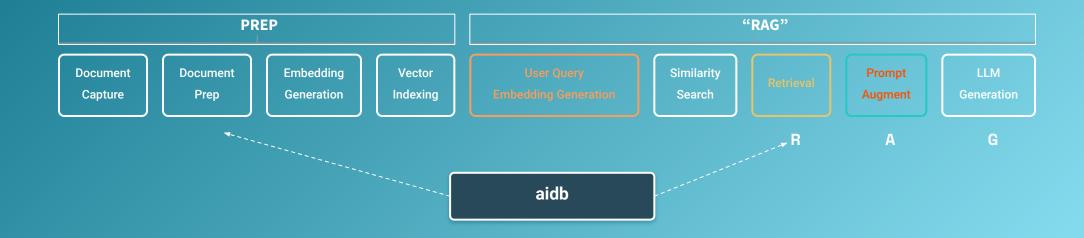
Our opportunity is necessitated by two dominant factors:

6

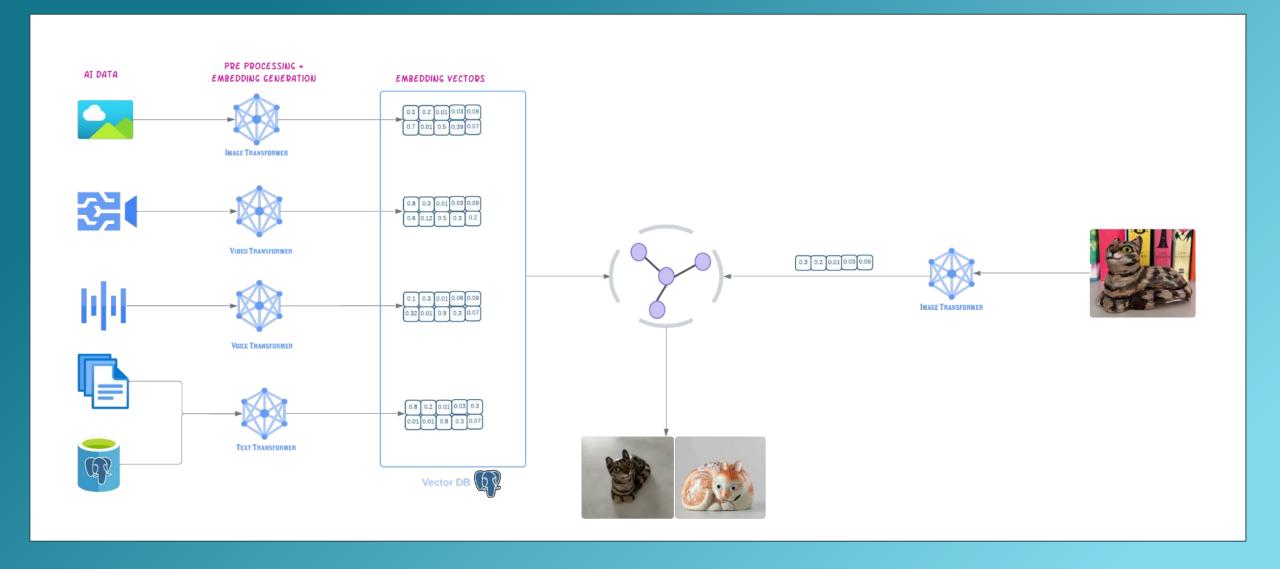
For businesses to run enterprise-grade, mission-critical GenAl apps, they need an enterprise-grade data management platform.



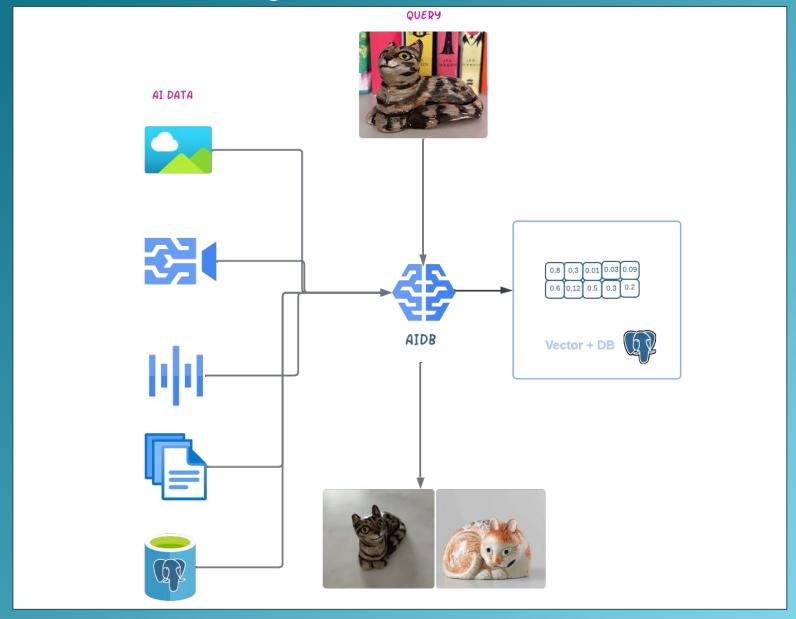
Our *partner strategy* is anchored around enabling the development of GenAl applications on Postgres *within those partners' ecosystems*.



A recommendation engine with pgvector



A recommendation engine with AIDB



AIDB - Encoders

[postgres=# select * from aidb.encoders;					
id	name	provider	max_tokens	default_distance_metric	dimensions
+		+			+
1	text-embedding-ada-002	openai	8191		1536
2	text-embedding-3-small	openai	8191		1536
3	text-embedding-3-large	openai	8191		2000
4	clip-vit-base-patch32	openai	512	AND CONTRACTOR CONTRACTOR	512
5	gtr-t5-xxl	huggingface	512		768
6	gtr-t5-xl	huggingface	512	and the second s	768
7	sentence-t5-xxl	huggingface	256	dot	768
8	gtr-t5-large	huggingface	512		768
9	all-mpnet-base-v1	huggingface	512		768
10	multi-qa-mpnet-base-cos-v1	huggingface	512	dot	768
11	all-roberta-large-v1	huggingface	256		1024
12	sentence-t5-xl	huggingface	256	CONTRACTOR OF THE CONTRACTOR O	768
13	all-MiniLM-L12-v1	huggingface	256	dot	384
14	gtr-t5-base	huggingface	512		768
15	sentence-t5-large	huggingface	256		768
16	all-MiniLM-L6-v1	huggingface	256	dot	384
17	msmarco-bert-base-dot-v5	huggingface	512		768
18	multi-qa-MiniLM-L6-dot-v1	huggingface	512	dot	384
19	sentence-t5-base	huggingface	256	dot	768
20	msmarco-distilbert-base-tas-b	huggingface	512		768
21	msmarco-distilbert-dot-v5	huggingface	512	dot	768
22	multi-qa-mpnet-base-dot-v1	huggingface	512	dot	384
23	multi-qa-distilbert-dot-v1	huggingface	512	dot	768
24	paraphrase-MiniLM-L6-v2	huggingface	128	cosine	384
25	paraphrase-TinyBERT-L6-v2	huggingface	128	cosine	768
26	paraphrase-MiniLM-L12-v2	huggingface	256	cosine	384
27	paraphrase-distilroberta-base-v2	huggingface	256	cosine	768
28	paraphrase-mpnet-base-v2	huggingface	512	cosine	768
29	all-mpnet-base-v2	huggingface	384	cosine	768
30	all-distilroberta-v1	huggingface	512	cosine	768
31	all-MiniLM-L12-v2	huggingface	256	cosine	384
32	multi-qa-distilbert-cos-v1	huggingface	512	cosine	768
33	all-MiniLM-L6-v2	huggingface	256	cosine	384
34	multi-qa-MiniLM-L6-cos-v1	huggingface	512	cosine	384
35	paraphrase-multilingual-mpnet-base-v2	huggingface	128	cosine	768
36	paraphrase-albert-small-v2	huggingface	256	cosine	768
37	paraphrase-multilingual-MiniLM-L12-v2	huggingface	128	cosine	384
38	paraphrase-MiniLM-L3-v2	huggingface	128	cosine	384
39	distiluse-base-multilingual-cased-v1	huggingface	128	cosine	512
40	distiluse-base-multilingual-cased-v2	huggingface	128	cosine	512
(40 rows)					
8 4 2 2 MM					

```
SELECT provider, count(*) encoder_model_count FROM aidb.encoders gro

OUTPUT

provider | encoder_model_count
huggingface | 36
openai | 4
(2 rows)
```

AIDB - Create Retriever - Postgres as a Source

```
SELECT aidb.create_pg_retriever(
    'product_embeddings_auto', -- Retriever name
    'public', -- Schema
    'product_id', -- Primary key
    'all-MiniLM-L6-v2', -- embedding model
    'text', -- data type
    'products', -- Source table
    ARRAY['product_name', 'description'], -- Columns to vectorize
    TRUE -- auto embeddings TRUE to set trigger
);
```

AIDB - Create Retriever - S3 as a Source

```
SELECT aidb.create_s3_retriever(
   'image_embeddings', -- Name of the similarity retrieval setup
   'public', -- Schema of the source table
   'clip-vit-base-patch32', -- Embeddings encoder model for similar
   'img', -- data type, could be either img or text
   'torsten', -- S3 bucket name
   '', -- prefix
   'https://s3.us-south.cloud-object-storage.appdomain.cloud' -- s3
);
```

```
SELECT aidb.refresh_retriever('image_embeddings');
```

AIDB - Retrieve Data from Retriever

Conclusion



EDB POSTGRES AI CONTROL LAKE HOUSE PLANE Legend Provision, Manage, Transactional Capabilities **Postgres** Maintain Clusters Existing but extended capability Postgres Clusters Migration Tools Postgres Clusters Postgres Clusters Discover, Observe Customer¹ Managed Postgres **On-Premises** DEVELOPER **Public Cloud** Customer Managed **ORACLE** Postgres

EDB AI: Innovative Platform 100% Based on Postgres

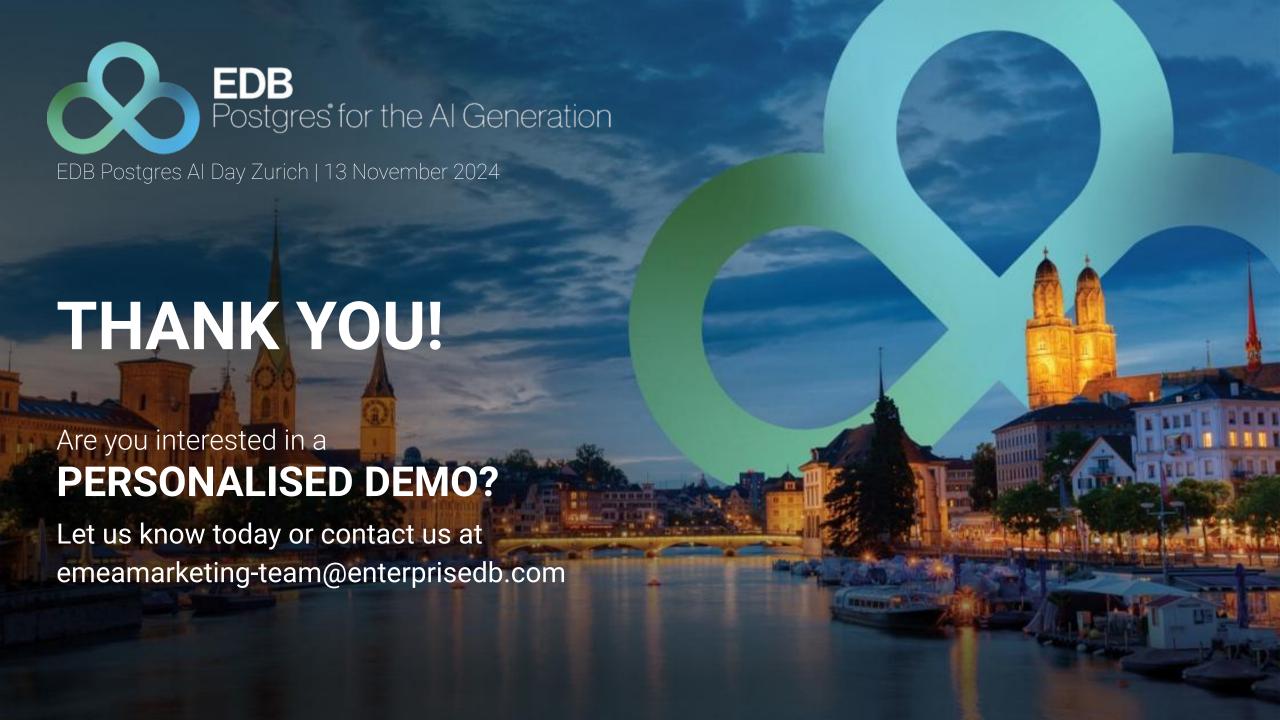


New Apps and Workloads: Analytics, HTAP, RAG, Recommender

Deploy Anywhere and leverage All
Infrastructure: True Hybrid Cloud
Solution. Leverage GPUs, Object Storage

Support Any Data Format: Efficient
Data Processing & Open Data Formats
including Columnar & Compression







Businesses are Driving Strategic Initiatives with Numerous Constraints

Initiatives

Transform

Operate in new ways, engage new customers, and deliver exceptional experiences.

Grow

Automate to protect existing revenue and innovate to develop new revenue streams.

Manage Risk

Secure everything and maintain compliance across diverse locations, systems, networks, and apps.

Constraints

Budget

Do more with less, focus on cost control, squeeze as much out of existing systems as possible.

Staffing

Address skills gaps and lack of specialized training that are barriers to transformation and growth.

Time

Accelerate development under economic and competitive pressure.

















Developer



RBAC | Hardening Image Scanning | Multi-Tenancy



Scalability | Reliability
Performance | Observability



Kubernetes | DevEx Self-Service | Automation | CI/CD



SQL | NoSQL | Performance Self-Service | Patching | Data Protection



Location | Hardware | Storage Scalability | Resource Optimization | Performance





The Hidden Challenges of

Siloed Operating Models and Tools Just Can't Keep Up

Why?

- Too Slow
- Too Complicated
 - Too Expensive
- Not Enough Skilled Talent

What's Needed?

- Adopt a DevOps culture
- · Implement a Cloud Platform
 - Focus on Automation
 - Establish Best Practices

Research Says that Organizations Want One Place to Manage Everything: A Consistent Cloud Operating Model

74%

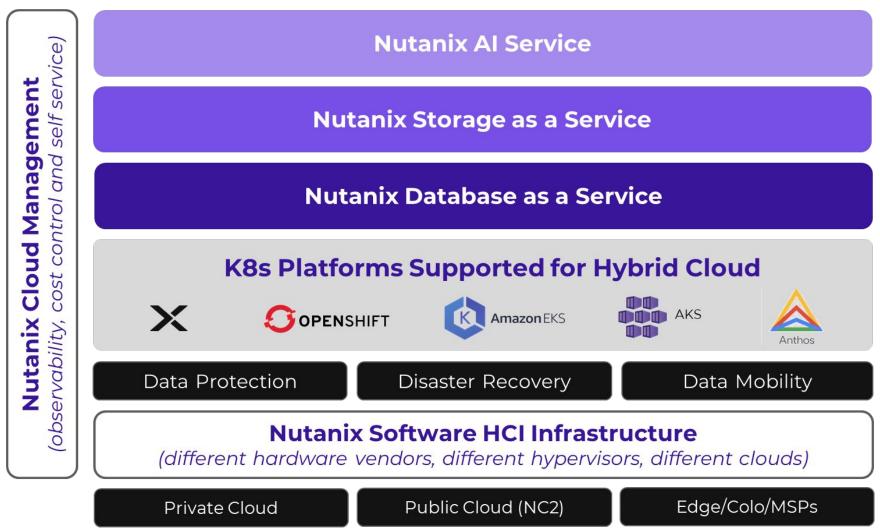
of IT teams are expected to leverage more than one IT infrastructure in the next 1-3 years, including a mix of private and public clouds, multiple public clouds, or an on-premises datacenter along with a hosted datacenter 94%

say they'd benefit from having a single, unified place to manage applications and data across diverse environments

5th Annual Nutanix Enterprise Cloud Index Report, April 2023

The Nutanix Cloud Platform

for legacy applications, modern applications and AI-driven applications





Automation is the key to simplify DevOps adoption

DEVELOPMENT



Developer teams need self-service capabilities to accelerate the transition from coding to production.





InnovationTime to MarketReliabilityby enhancing

by enhancing collaboration, reducing bottlenecks and not increasing costs

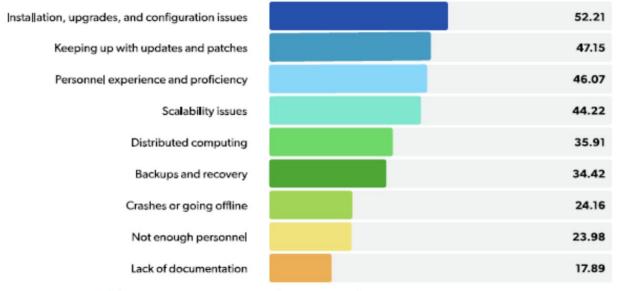
Operations teams should leverage existing skills and knowledges to effectively manage emerging technologies and navigate increasing complexity.



The Rise of Opensource Relational DB and NoSQL DB

Modern applications are driving the adoption of specialized, primarily open-source database technologies. Business-critical applications demand complex architectures that require advanced skills, which are often hard to find in the market.

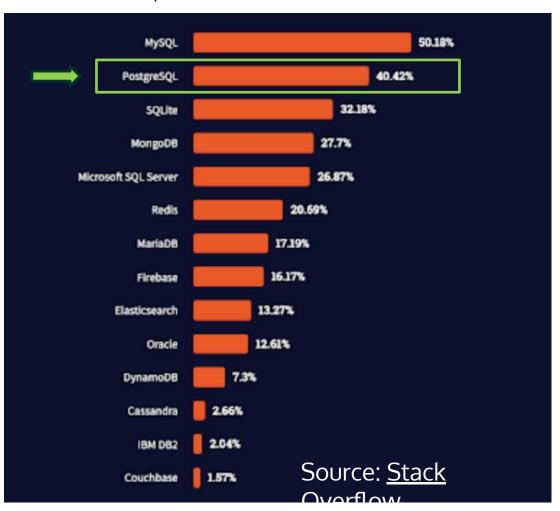




Source: https://www.openlogic.com/resources/2022-open-source-report

EDB Postgres Al Day

Top-rated databases in 2022

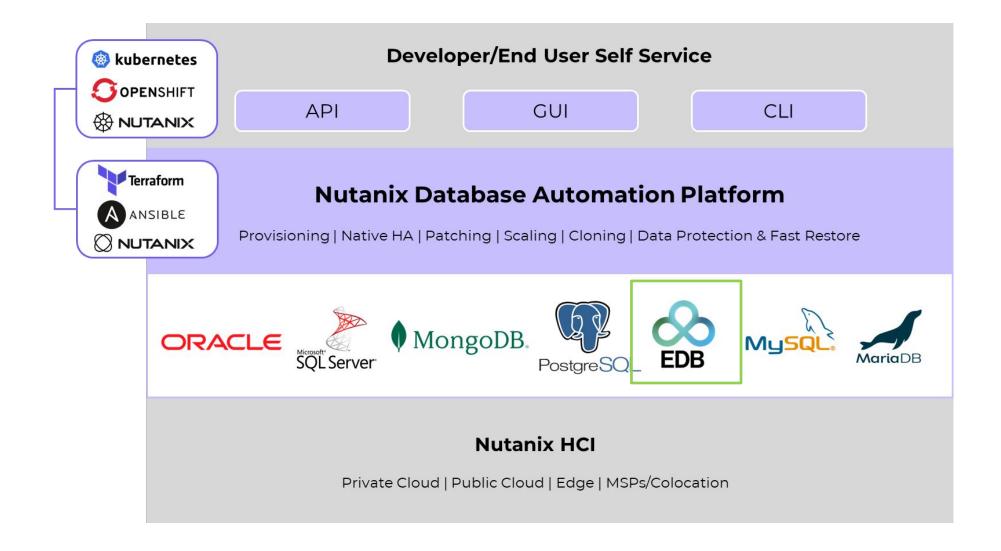


Overcoming Modern Database Challenges

Customer pain points, and challenges

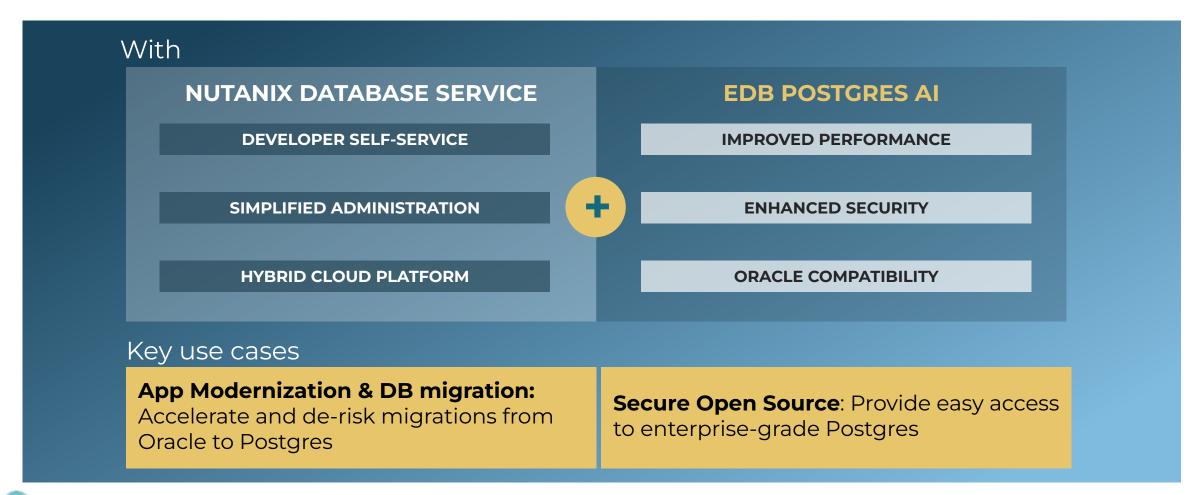
- Complex Infrastructures: Streamlines management across disparate systems with minimal manual intervention.
- Real-Time Data: Facilitates faster and more reliable data integration and analytics.
- Cost Efficiency: Reduces operational costs through automation and simplified management.
- Migration from Legacy systems: Mitigate the challenges of migrating from outdated technologies

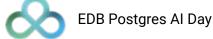
Nutanix Database Service: Database-as-Code



Nutanix Database Service + EDB Postgres Al

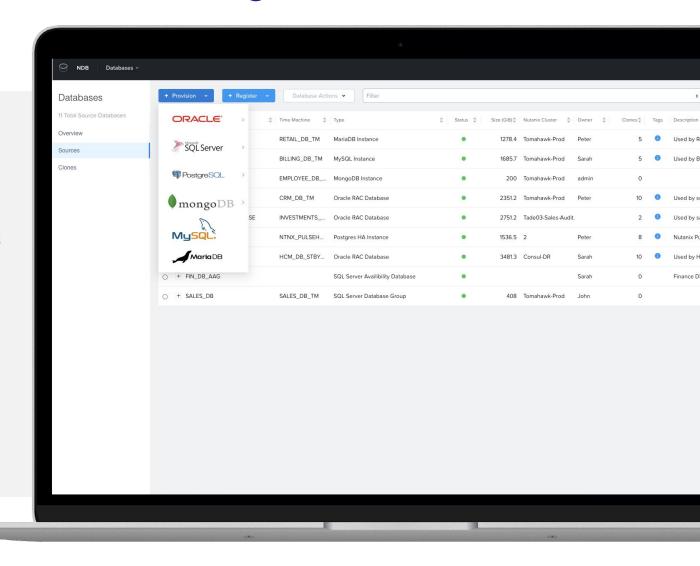
The leading hybrid multi-cloud DBaaS, now supporting the leading enterprise-grade Postgres database





Automate Database Provisioning

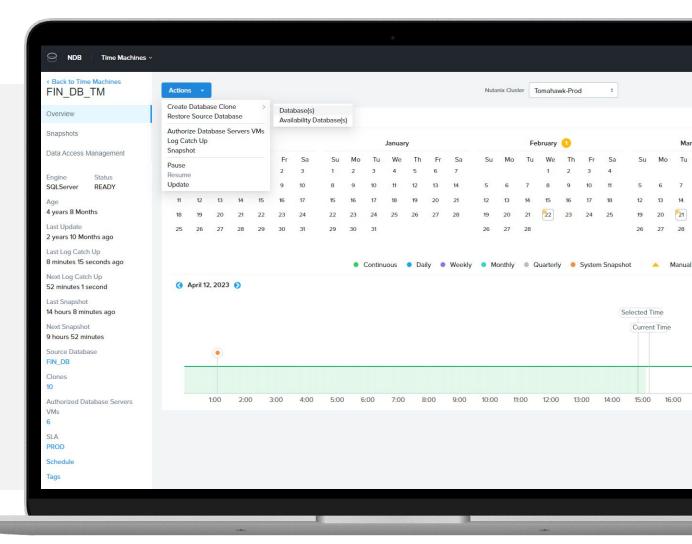
- Provision both Single instance and High Availability database clusters with best practices
- Easy integration with existing provisioning processes through REST APIs and script call outs
- Maintain control with ability to customize your database images





Speed up Database Protection and Cloning

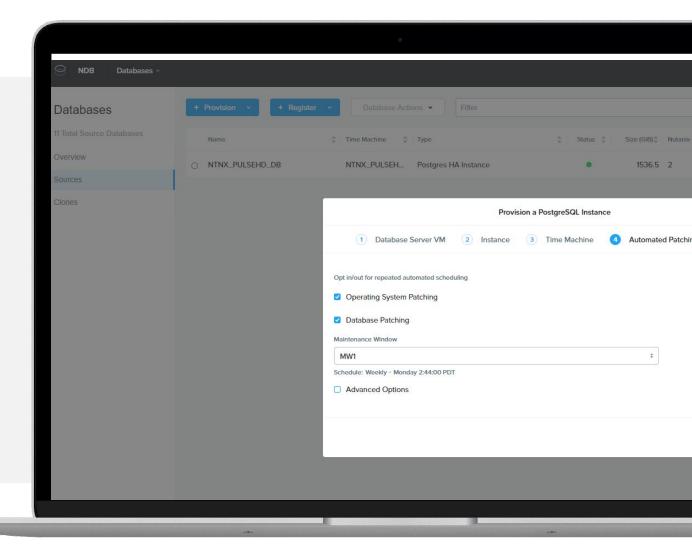
- Automated snapshot protection out-of-the-box with point-in-time-recovery (PITR)
- Create database clones quickly (few minutes)
- Create clones with minimal storage overhead across one or more Nutanix clusters
- Refresh clones to any point in time with an automated schedule





Simplify Patching with Maintenance Windows

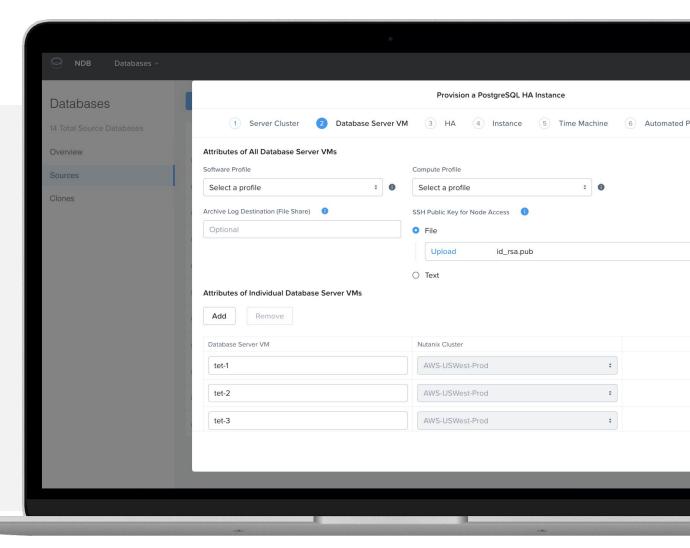
- Enable scheduled Operating System and Database patching maintenance windows
- Optionally opt into Operating system or Database patching
- Define a maintenance window and choose which DB servers are a part of that schedule





Power Modern Apps with EDB Postgres DBaaS

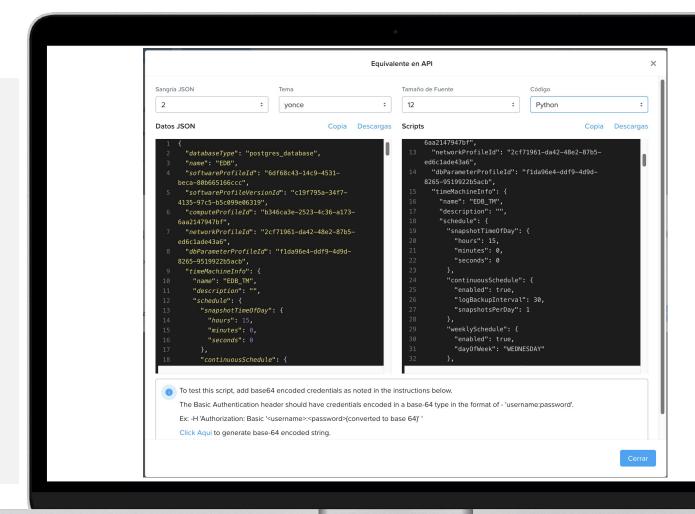
- Developer self-service for EDB Postgres to accelerate application development
- Simplified EDB Postgres management, including automated patching, cloning, and backups.
- End-to-end support from hardware through EDB Postgres software from experts you can trust





Database-as-Code

- Developer self-service for EDB Postgres to accelerate application development
- Simplified EDB Postgres management, including automated patching, cloning, and backups.



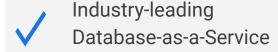


Takeaways: With EPAS on Nutanix Database Service, 1+1=3

EDB Postgres Advanced Server

- Industry-leading solution for Oracle-to-Postgres migration, simplifies database transition for developers
- Provides consistency across on-premises and public clouds
- Extends Postgres security with TDE, Data Redaction, EDB Audit, User Profiles, and SQL/Protect

Nutanix Database Service



Database provisioning,

management, and
orchestration solution
supports hundreds to
thousands of databases—new
and existing

Streamlines database lifecycle management, automation and control, self-service deployment, and database protection

EPAS on Nutanix Database Service

- Reduces enterprise Postgres

 migration efforts using EPAS,
 coupled with streamlined
 database provisioning and
 management from Nutanix
 Database Service
- Accelerates Postgres adoption for net-new applications and reduces time to market
- Enhances developer experience
- Improves consistency, repeatability, and efficiency of Oracle-compatible Postgres deployment





