EDB's Product Roadmap

May 2022 Marc Linster, CTO







Disclaimer

Statements included in this presentation, other than statements or characterizations of historical fact, are forward-looking statements. These forward-looking statements are based on our current expectations, estimates, and projections about our industry, management's beliefs, and certain assumptions made by us, all of which are subject to change. These forward-looking statements are not guarantees of future results and are subject to risks, uncertainties, and assumptions that could cause our actual results to differ materially and adversely from those expressed in any forward-looking statement.

By sharing our product roadmap with you, we are not undertaking an obligation to develop the software with the features and functionality discussed herein.

The forward-looking statements in this presentation are made as of May, 2022. We undertake no obligation to revise or update publicly any forward-looking statement for any reason.

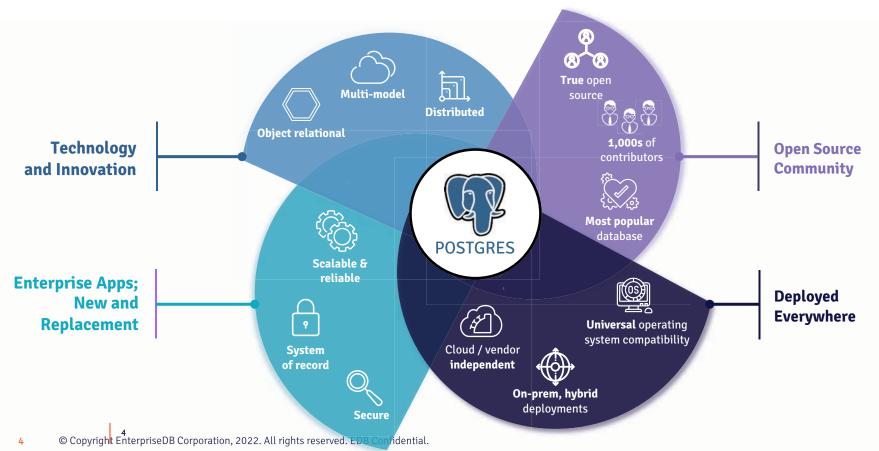


POSTGRES IS THE MOST

TRANSFORMATIVE OPEN SOURCE

TECHNOLOGY SINCE LINUX

WHY ENTERPRISE DEVELOPERS LOVE POSTGRES



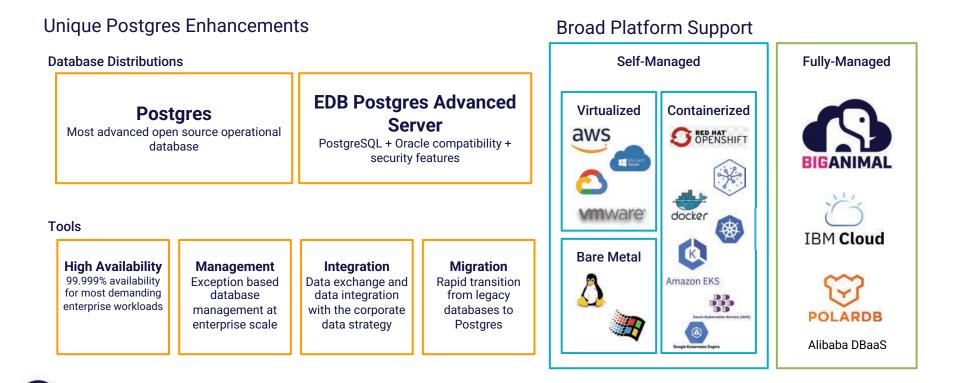
EDB'S PRODUCT PORTFOLIO

EDB Enterpri	ise	EDB Standard		EDB Community 360
Open Source + EDE + Oracle Compat and E Features		Fully Open Source + EDB Tools		Fully Open Source
	EDB BigAni	mal	EDB Postgres Di	stributed

Fully Managed Postgres or EDB Postgres Advanced Server

Adds Extreme High Availability to Standard or Enterprise

EDB's TECHNOLOGY PORTFOLIO





EDB Roadmap News

- EDB Postgres Distributed 4.1 (formerly BDR)
- EDB BigAnimal release on AWS
- Postgres on K8s
 - Open source release of the CNP Operator
 - EDB Postgres on Kubernetes
- PostgreSQL and EDB Postgres Advanced Server 15

EDB Postgres Distributed

(formerly known as BDR - Bidirectional Replication)



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- You've chosen Postgres
- Your application needs to be always on
- Any downtime = Loss of business continuity = Revenue loss

You need:

- A replication solution
- Geographically distributed database clusters
- Extreme high availability
- Optimal performance at all times

Enter EDB Postgres Distributed

The most advanced replication solution for Postgres



Maintain extreme high availability

Postgres clusters deployed with EDB Postgres Distributed keep top tier enterprise applications running



Upgrade with near zero downtime

Rolling upgrades of application and database software eliminate the largest

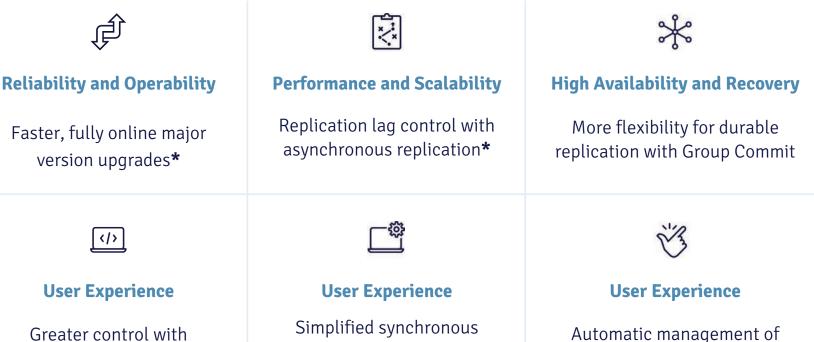
> source of downtime



Choose the level of consistency

Robust capabilities provide flexibility to meet application data loss requirements

New in EDB Postgres Distributed 4.1



replication configuration with

SOL level interface

Greater control with command line interface

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distributed sequences

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Best fit

Where does EDB Postgres Distributed fit in EDB's portfolio?

Requirement / Characteristic	Good fit for EDB Postgres Distributed	Fit for another EDB solution
Availability Requirements	99.99 - 99.999% Four to Five 9s	99.9 - 99.99% Three to Four 9s
Data Centers & Geographic Regions	Globally distributed	Not globally distributed
Upgrade downtime	Rolling upgrades with near-zero downtime	Appetite for maintenance windows
Application tier	"Tier 1"	"Tier 2" & "Tier 3"
Application types	Payment gateways, telecommunications call routing, global collaboration	HR, Expense Reporting, CRM

Two primary use cases

The most advanced replication solution for Postgres



1. Extreme High Availability

Postgres clusters deployed with EDB Postgres Distributed keep top tier enterprise applications running



2. Geographically Distributed Workloads

Global enterprise applications can address data sovereignty and stay in sync with EDB Postgres Distributed

EDB Postgres Distributed Customer Success Story

Use case SaaS project management and collaboration company experiencing massive growth with customers spanning individuals to large enterprises supporting over 100,000 teams globally.

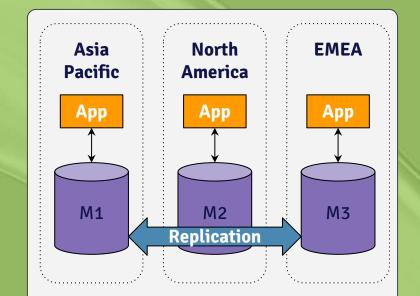
The need Provide consistent performance to their international customer base while scaling up their business in multiple regions.

Why EDB Postgres Distributed ClickUp selected EDB Postgres Distributed to address geo-distributed needs of their customer base, and later upgraded to gain improved performance, rolling upgrades, and high availability.

Value

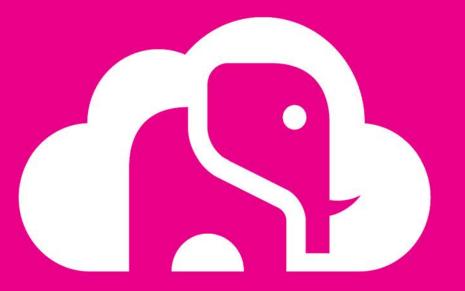
EDB Postgres Distributed has contributed to the 99.99% uptime for 12 consecutive months of ClickUp's 7 node global deployment.





EDB BigAnimal: Unleash the power of Postgres in the cloud

Available on Azure and AWS





Unleash the power of Postgres in the cloud

Your Postgres database is too important to leave to generalists



Postgres Expertise

EDB's expertise goes above the infrastructure; we help steer the database roadmap and patch its bugs



Oracle Compatibility

Leave Oracle and further your cloud journey with a fully managed Postgres service



Extreme High Availability

High availability of your PostgreSQL clusters so you're always on, always available

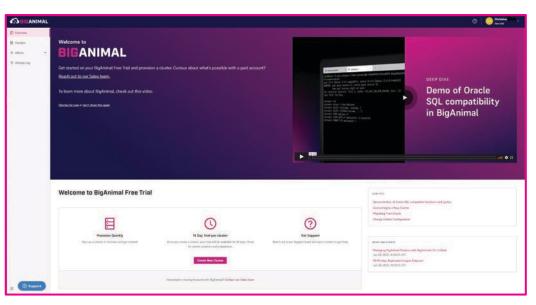
Explore fully managed PostgreSQL in the cloud with EDB BigAnimal

Log in and spin up a Postgres cluster in seconds with our self-service free trial

- Fully managed by EDB no setup necessary
- Spin up a cluster in seconds
- 100% free no cloud account needed
- Expert-supported by EDB's enterprise PostgreSQL team

The free trial experience includes:

- Compatibility with Oracle via PostgreSQL Advanced Server
- 14 days access to cluster creation and management
- $\circ \quad \text{Activity log} \\$
- Connect to your cluster and go!



* This self-service free trial allows a single user to experience BigAnimal. For deeper dive evaluations against project and business requirements, please contact your sales executive.

BIGANIMAL

Signup today for 14 day self-service FREE trial! https://biganimal.com



EDB BigAnimal Availability in Asia Pacific and Japan

Supported Azure regions

- Australia East (New South Wales)
- Japan East (Tokyo, Saitama)
- South East Asia (Singapore)

Supported AWS Regions

- Asia Pacific Northeast 1 (Tokyo)
- Asia Pacific Northeast 2 (Seoul)
- Asia Pacific Southeast 1 (Singapore)

Last updated: May 26 2022. For complete list:

https://www.enterprisedb.com/docs/biganimal/latest/overview/03a_region_support/



Q2 2022

May

Launch on AWS

Direct purchase options from EDB

Single region continuous availability with BDR (beta launch)

Formulas for database configuration

June

Support for Microsoft Azure ultra disks Customizable retention periods for backups Support for 2 node high availability clusters

Q3 2022

LDAP integration for federated DB access

Enable supported EDB extensions

Regions: fine-grained BYOA infrastructure control

Reduced service level privileges

Read only connection strings

Q4 2022 and beyond

Launch on GCP

AWS Marketplace

Multi-region continuous availability for geodistributed workloads with BDR

PCI compliance certification

Data Migration Service

Projects: enabling isolation between workloads and teams

Integrated migration assessments

Terraform modules enabling integration into DevOps automation and pipelines

FedRAMP Preparation

Postgres on Kubernetes: Cloud Native Postgres EDB Postgres for Kubernetes



The CloudNativePG Project

- CloudNativePG organization in GitHub: github.com/cloudnative-pg
 - CloudNativePG operator (main project): github.com/cloudnative-pg/cloudnative
 - pg
 - PostgreSQL operand images
 - Helm charts
- License: Apache 2.0
- IP: "The CloudNativePG Contributors"
 - We've applied to the CNCF Sandbox with the goal to donate the project to the CNCF
 - First PostgreSQL/Kubernetes project to attempt this



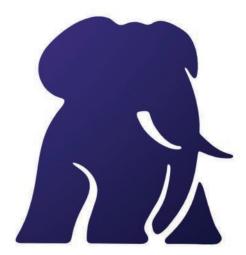
May 2022



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

Blog

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 used area with the Kubernetes API

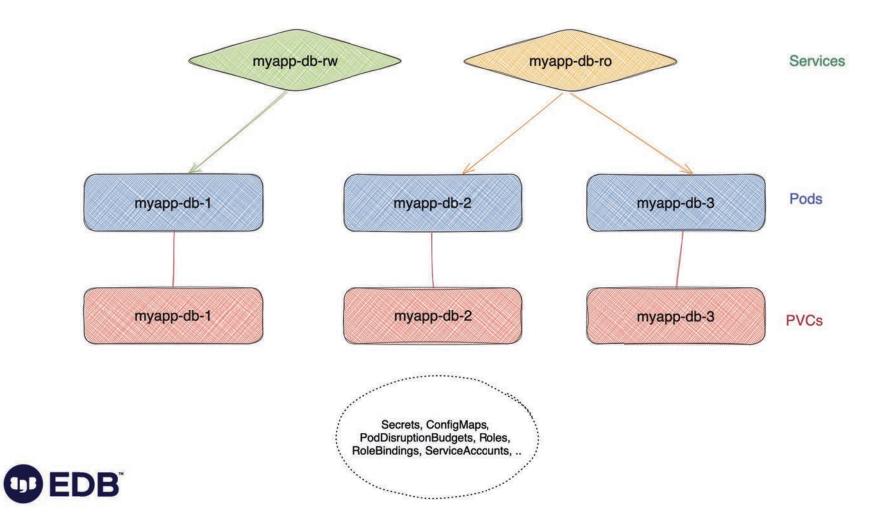
cloudnative-pg.io 24



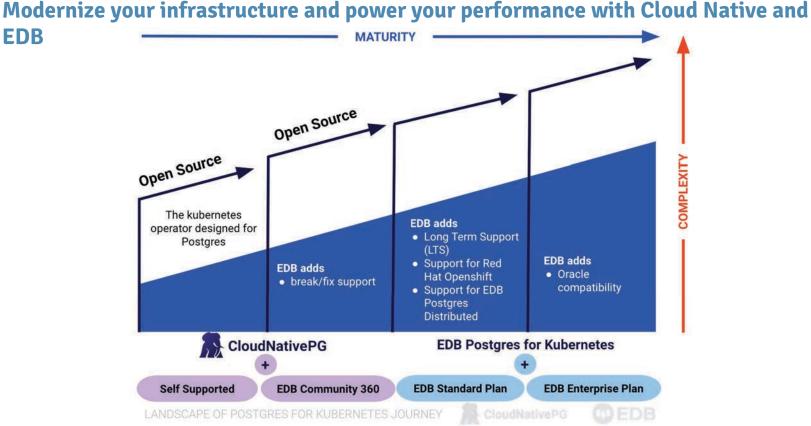
```
apiVersion: postgresql.cnpg.io/v1
kind: Cluster
metadata:
   name: myapp-db
spec:
   instances: 3
   imageName: ghcr.io/cloudnative-pg/postgresql:14.3
```

```
storage:
    size: 10Gi
```





CloudNativePG and EDB Postgres for Kubernetes



EDB Postgres for Kubernetes

Q2 2022

Open source release of CNPG @ Kubecon

Support for Postgres Distributed deployments in a single K8s cluster (beta)

Offline major version upgrades of Postgres via the operator

Support to scale-out disk I/O:

- Separate volumes WAL, PGDATA
- Support for tablespaces

Expand default image management for operands by supporting a default image for each Postgres major version

Support LDAP authentication (declarative)

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2H 2022

Support for Postgres Distributed deployments across K8s clusters

Barman Operator

Support to sync LDAP users/groups with Postgres

Online major version upgrades of Postgres via the operator

Dynamic tuning of Postgres parameters

2023 and Beyond

Postgres Roles management - PG/EPAS

Declarative User Profile Management - EPAS

Postgres DBA health checks and remediation

Major offline upgrade with parallel data loading

Deep Insights - performance diagnostics, query performance, and audit dashboards

Option to include PgAdmin with Postgres cluster deployments

PostgreSQL and EDB Postgres Advanced Server 15



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PostgreSQL and EDB Postgres Advanced Server 15

Q3 2022: PostgreSQL v15 (EDB contributions)

Logical Replication Improvements

- Column Filtering
- Row Filtering
- Restartable Transactions
- Synchronous Logical Replication Slots

More granular permissions

- Enable non super users to do additional things (i.e. set GUCs)
- Better permission granularity on logical replication

SQL

• MERGE

Partitioning

- 10x performance for large partition counts with write activity
- Multi Key Partitioned tables

JSON

- JSON SQL Functions
- JSONB statistics

Other

- Refactoring Backups to enable different targets
- Enhanced Startup messages

Q4 2022: EDB Postgres Advanced Server v15

Enterprise Integration

• LDAP

Oracle Compatibility

SQL

• MERGE

Packages

 HTP, HTF, DBMS_UTILITY (enhancements)

Functions

 extractvalue, rexp_like, from:tz, to_timestamp_tz, to_clob, nvl, reverse, numtodsinterval

EDB TECHNOLOGY INVESTMENTS

