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14 - 17 June
Lyon, France

The largest conference in Europe
for solutions around IBM Power (IBM I, AIX, Linux) & IBM Storage

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EVENTS | DE LYON



**Welcome to Lyon, France
and the 2026 Common Europe Congress**

**Bienvenue à Lyon, en France,
et au Congrès de Common Europe 2026**

Fuel Your Postgres with IBM Power



Performance
Unleash maximum performance



Reliability
Built for availability and resilience



Scalability
Scale with confidence as you grow

EDB
Postgres

IBM
Power



HIGH PERFORMANCE
More power for your workloads



BUILT-IN RESILIENCE
Designed for mission-critical



SCALE WITH CONFIDENCE
Grow without limits



ENTERPRISE SECURITY
Protect what matters most



EDB Postgres on IBM Power : The Enterprise Ready PostgreSQL Platform



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ACMi Who Are We?

Recognized as a major player in the IBM Z, LinuxONE, Power Systems and associated storage market, ACMI is also a leader in Cloud, managed services and cybersecurity

+ 400 customers

Infrastructure



IBM Power Systems – IBM Z –
IBM LinuxONE - x86 Servers -
Storage - FlashSystem - IBM
Spectrum Storage - VTL -
Hyperconverged Architectures

Security



Data Protection – Replication
- High Availability -
Cybercrime Protection -
Disaster Recovery Plan

Services



Professional Services -
Consulting - Managed Services -
Outsourcing – Hosting -
Maintenance - Private and Hybrid
Cloud – IBM Cloud - DRaaS

IBM Partner Plus
Platinum

EDB Partner



ACMI Services

Automation

ACMI Team



IaaS ACMI

Compute Platforms

Storage Platforms

Alerting

Ticketing

Monitoring

Incident Management

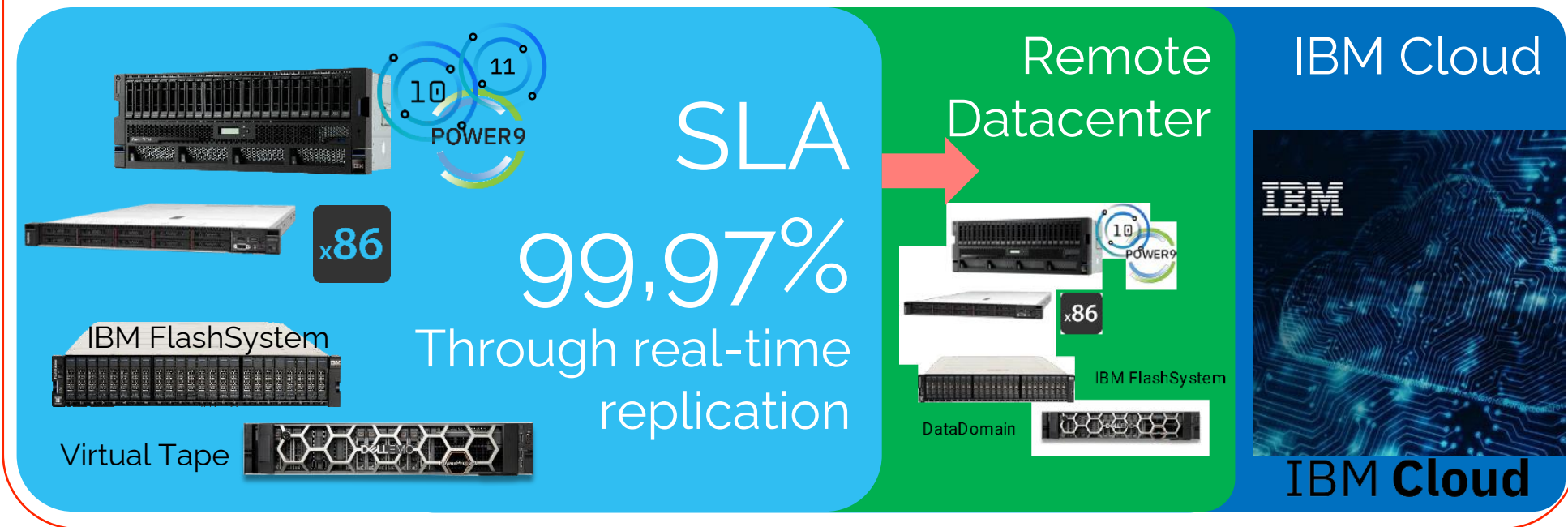
Expertise

Operational Maintenance

Request Management



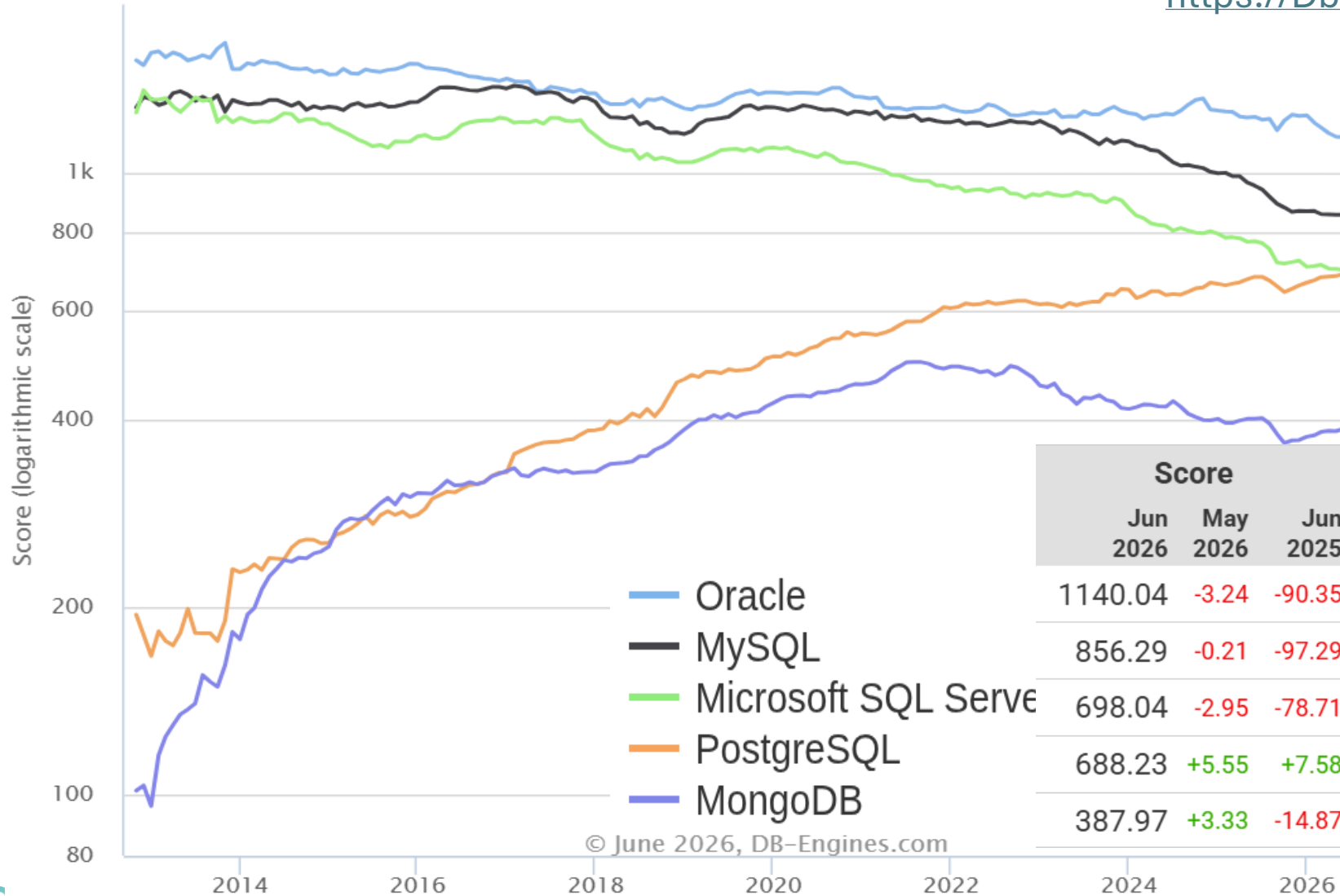
Certified as a Health Data Host (HDS Certified)



PostgreSQL is Booming!

DB-Engines Ranking

https://Db-engines.com/en/ranking_trend



35% 

Thirty-five percent of Enterprises will consider Postgres for their next project

55%+

of developers globally are using PostgreSQL, making it the most-used database in recent developer surveys.

PostgreSQL features that most enterprises need

EDB Community 360 Plan

Protect PostgreSQL with EDB Expert Support

Software:
PostgreSQL

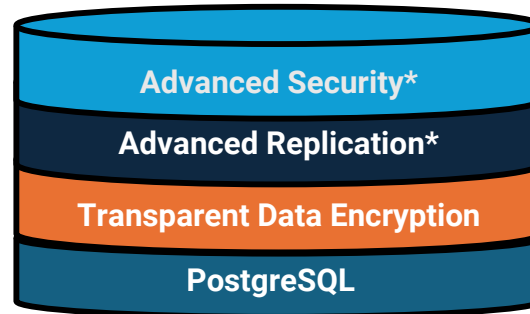


- Open Source Tools
- Community PostgreSQL
- EDB & Community Support
- Kubernetes Operator

EDB Standard Plan

Strengthen and extend PostgreSQL with enhanced security, resiliency, reliability and optimization.

Software:
EDB Postgres Extended

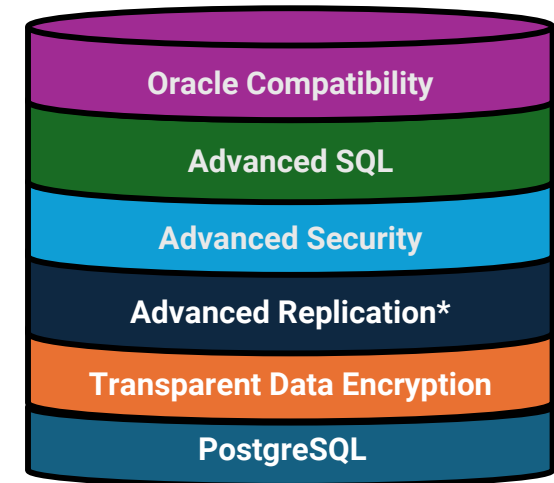


- Open Source Tools
- Community PostgreSQL
- EDB & Community Support
- Kubernetes Operator
- EDB Tools & Extension - including PEM
- EDB Postgres Distributed Add-on*
- EDB Postgres Extended

EDB Enterprise Plan

Migrate costly Oracle workloads to Postgres or elevate Postgres to enterprise-grade with advanced security, reliability and much more.

Software:
EDB Postgres Advanced Server (EPAS)



- Open Source Tools
- Community PostgreSQL
- EDB & Community Support
- Kubernetes Operator
- EDB Tools & Extension - Including PEM
- EDB Postgres Distributed Add-on*
- EDB Postgres Extended
- EDB Postgres Advanced Server

EDB and IBM Power : better together

EDB : leading provider of Postgres based capabilities – From Support to Advanced Features

EDB PGAI Community 360 Plan

Protect PostgreSQL with EDB Expert Support

EDB PGAI Standard Plan

Strengthen and extend PostgreSQL with enhanced security, resiliency and optimization

EDB PGAI Enterprise Plan

Elevate Postgres to enterprise-grade with advanced security, reliability and EDB Postgres AI/pgvector ...

SAME EDB on Linux on Power Experience as EDB on Linux x86
Same Versions, Same Features

IBM Power11 : Enterprise-grade Infrastructure for Mission Critical Workloads

Performance	Flexibility	Security	Business Continuity	Economics
4x more threads per core +2x performance per core vs x86 AI Ready (MMA / Spyre)	Deployment options : <i>VM or/and Container</i> Scalability : <i>Up & Out</i> Dynamic Scaling Consolidation <i>PEP 2.0 / Resource Group / Shared Processor Pool</i> HW based virtualization without additional costs	Secure by Design <i>Fewer Vulnerabilities</i> Accelerated EDB Postgres Encryption (TDE) Linux Volume encryption Quantum Safe Power Cyber Vault	Zero Planned Downtime (ZPD) 99,9999 Availability LPM IBM Power and/or EDB features for HA/DR <i>VMRM, EDB Replication ...</i>	Same Licensing/subscription model as x86 No Core Factor Workloads Consolidation for better TCO

EDB Postgres 17 on IBM Power11 – Performance

2.1x better performance per core for EDB on Power11 vs x86¹

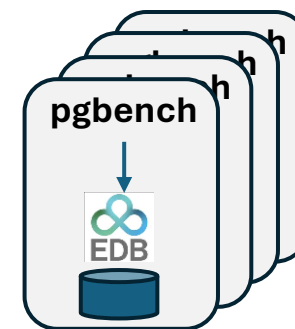
Objective : compare resource requirements for both platforms for a given Workload.

- Same pgbench workload across x86 and IBM Power servers – 180 Clients
- Same software stack on x86 and Power11
- VM at 100% CPU utilization to maximize cores usage and subscription
- 4 VMs in // to stress the physical server and be representative of client production environment

	IBM Power E1180 (60 cores, 2TB, 4VMs)	Intel Xeon based 2-socket server (160 cores, 2TB, 4VMs)
Online transaction workload Total Transactions per Second	5,281,120.17 TPS	6,598,363.39 TPS
TPS/Core	88,018.67	41,239.77

IBM Power offers a more reliable & secure and a more performance and flexible foundation for mission-critical databases.

CPM Metrics from PrecisionIT shows a **2x perf per core ratio** between Power and x86 configurations used in this testing



15 cores Power11 per LPAR
vs
40 cores x86 per VM



1. Based on IBM internal testing of multiple VM images running pgbench read-only benchmark at scale factor of 1,000, 20GB buffer size with 180 clients on Enterprise DB Postgres Advanced Server 17.6. Results valid as of Sept. 25, 2025, and conducted under laboratory conditions, individual results can vary based on workload size, use of storage subsystems and other conditions. Comparison is based on transactions per second on IBM Power E1180 (16x16core) versus Intel Xeon 6980P x86 (2x128-core) systems each with 4 VMs running Linux 9.6

End to End Security with EDB Postgres on IBM Power

full stack encryption: in transit, at rest, in memory

Security level that organization expects for enterprise class and mission critical workloads



Transparent Data Encryption
Data Masking & Redaction



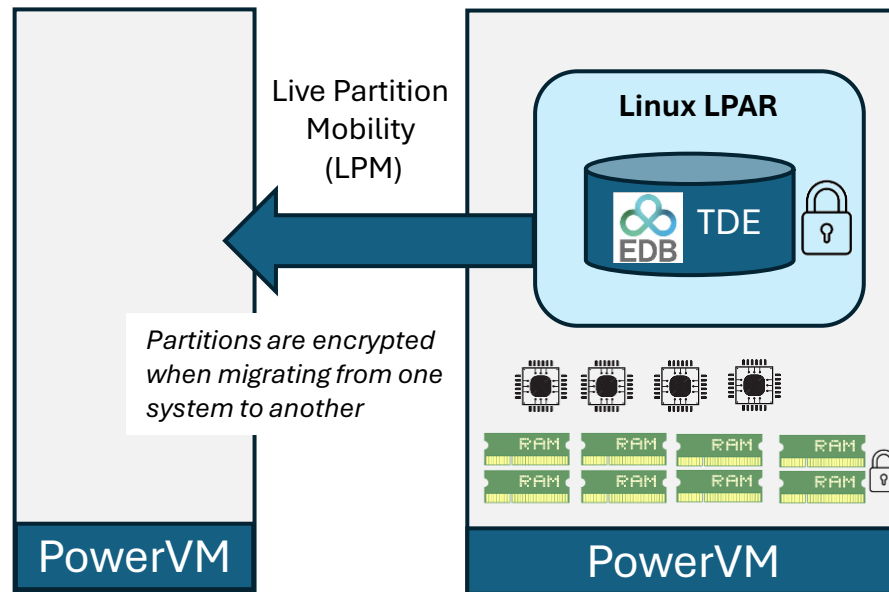
Secure by Design



Built-In Quantum security at Hardware level.

Transparent Data Encryption (TDE)

- a feature of **EDB Postgres Advanced Server** and **EDB Postgres Extended Server**
- Encryption of Data Files / write-ahead log (WAL) / Temporary files
- AES (128 or 256) encryption algorithm using **accelerated OpenSSL libraries** on Power11



Power11 Transparent Memory encryption

- No additional management setup
- No performance impact

PowerSC

Isolation Controls

Secure VMs & Containers

OS / LPAR / VM Isolation

Hardware & Firmware Security

Crypto Engines
On Chip Accelerators
Compressed and Encrypted LPM Data

Integrity Controls

Run-time Verification of workload files

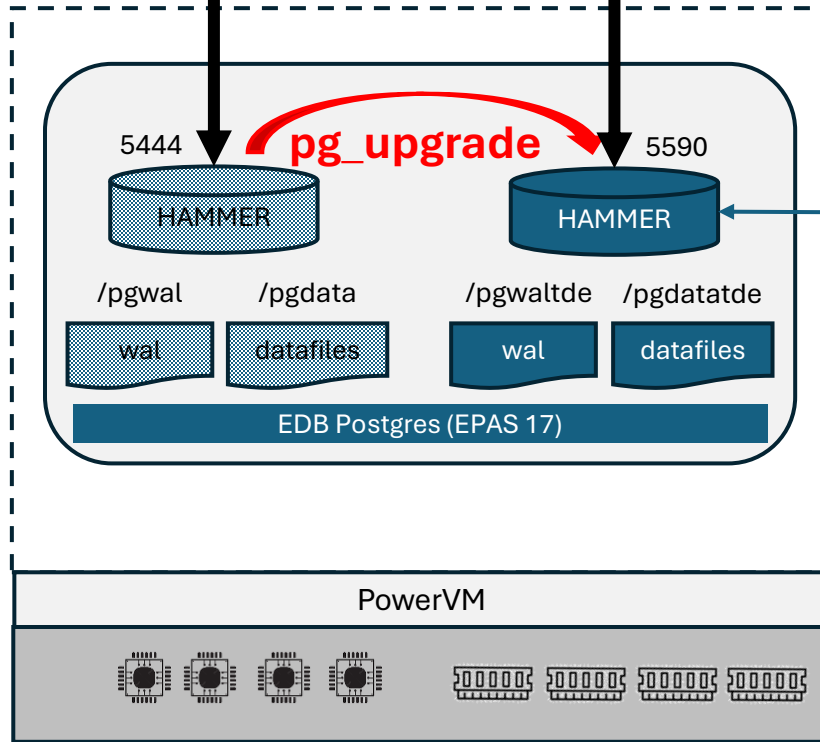
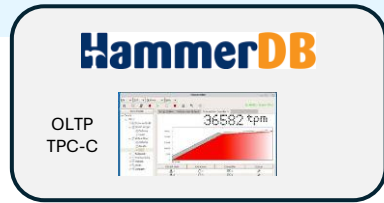
Run-time Verification of OS files

Boot time Integrity

Trusted Platform Module (TPM)
Secure Boot
Trusted Boot

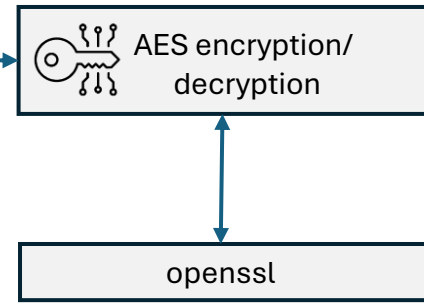
At least 13x fewer vulnerabilities than KVM, VMWare, Hyper-V

Secure critical database with TDE/EDB Postgres on IBM Power



On-chip encryption accelerator
4x crypto engines per core

Power11 Transparent
Memory encryption



Encryption Steps

1. Create new volumes to host encrypted database
2. Create new EDB Postgres Cluster with encryption enabled
3. Check mode to test for incompatibilities with source DB
4. Perform pg_upgrade to encrypt data and copy datafiles and wal to targeted filesystems
5. Verify pg_upgrade
6. Clean up unencrypted server

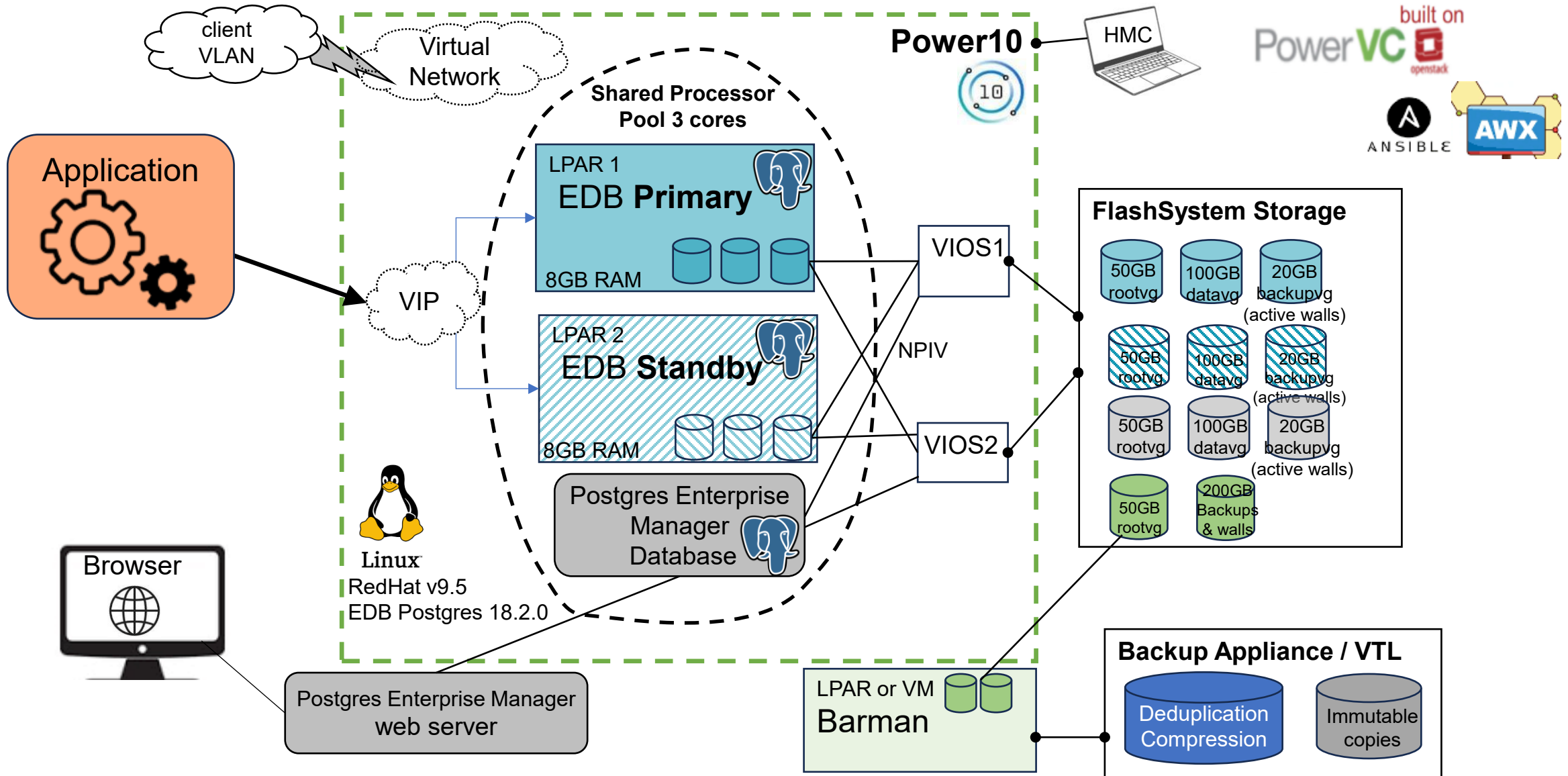
```
pg_statistic
pg_type
pg_statistic
pg_extension
pg_ts_template
```



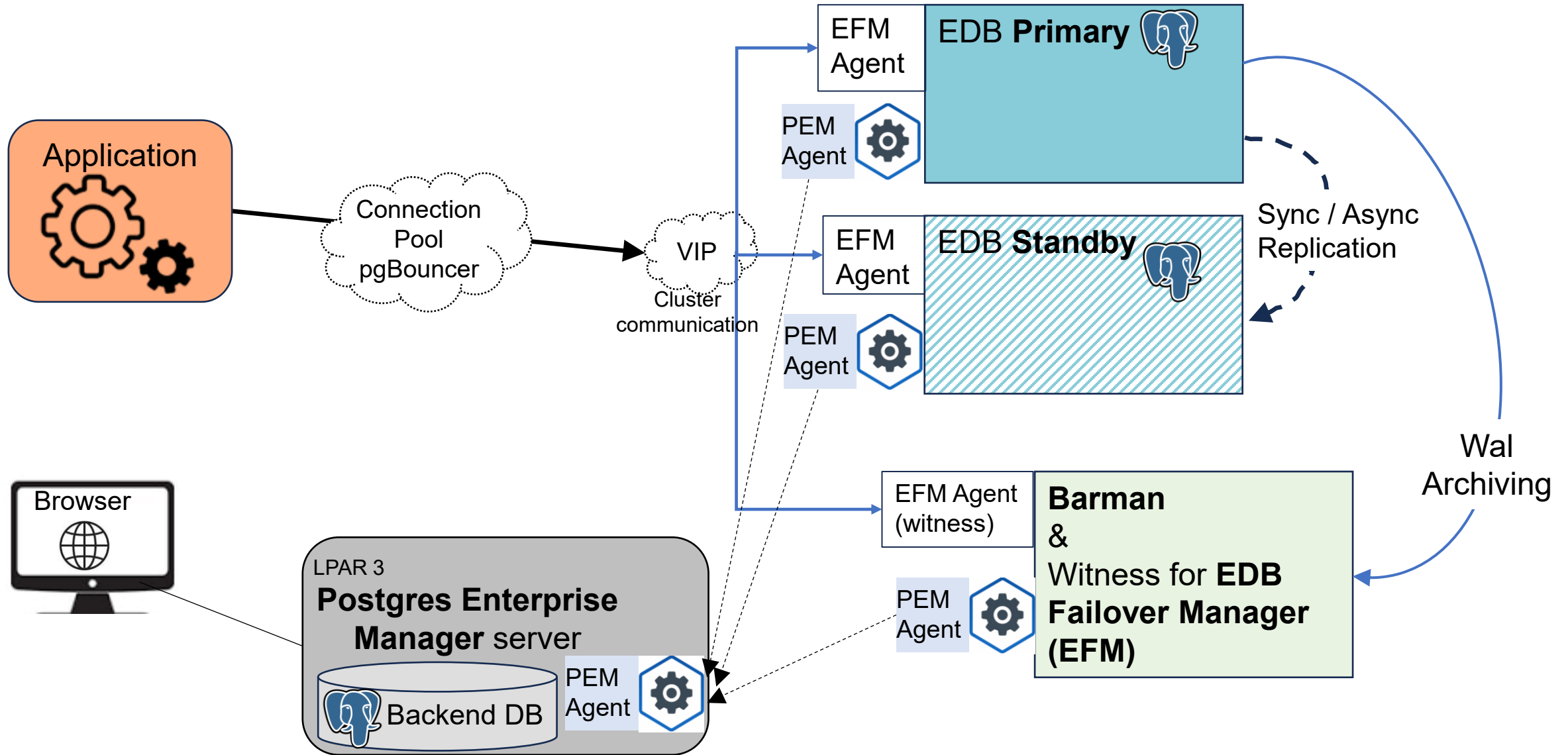
```
2ed9
PF-k
4vU
4^# (M
26vG
ee34
!LSw
```

Physical Architecture HA/DR example

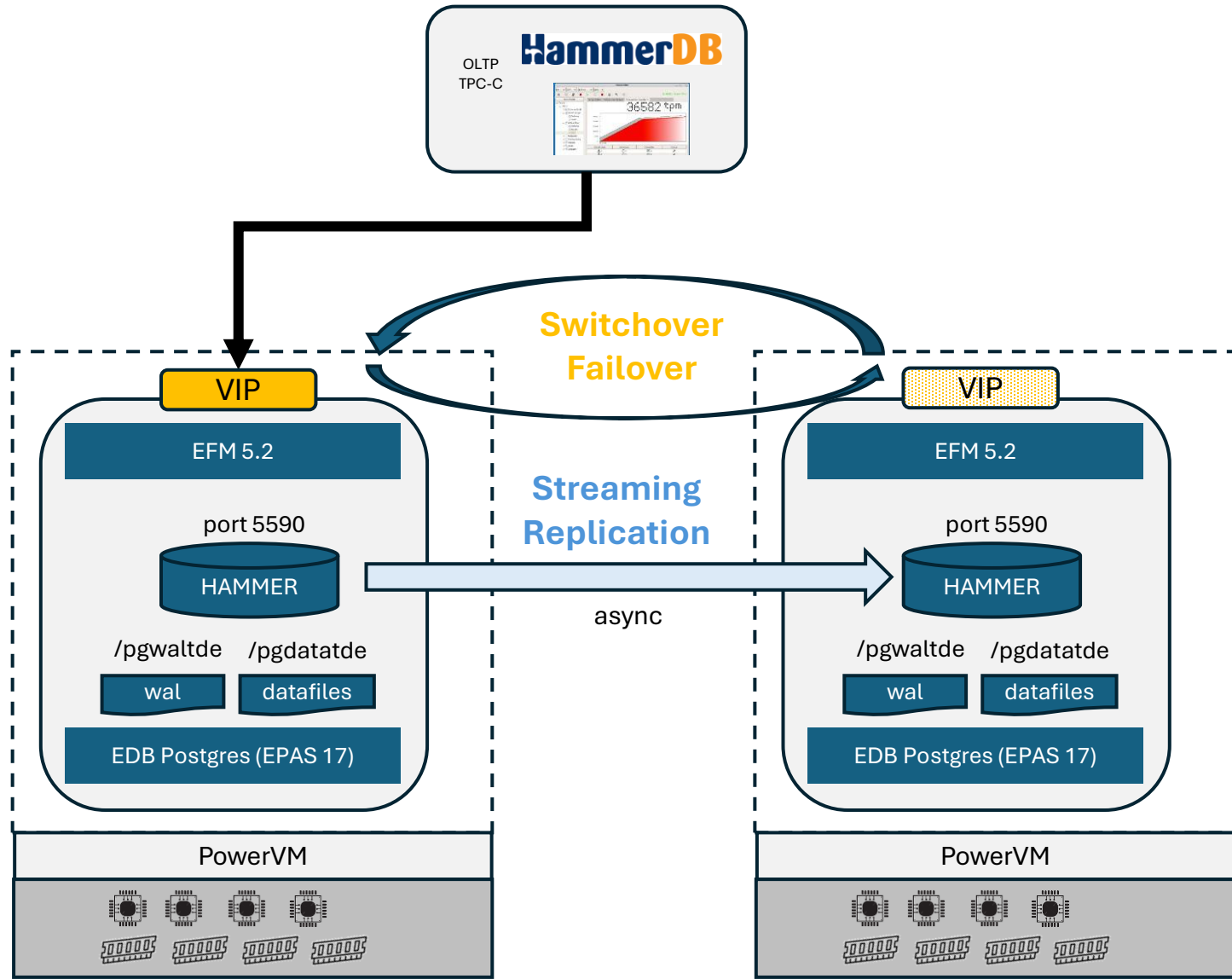
for production environment, Primary and Standby are not on the same Physical server



Logical Architecture



Enterprise PostgreSQL HA/DR on IBM Power with EDB Streaming Replication



Steps

1. Configure PostgreSQL Streaming Replication
2. Establish SSH Trust Between Primary and Standby Nodes
3. Create the Standby Database using `pg_basebackup`
4. Install EDB Failover Manager (EFM) on Both Nodes
5. Configure EFM Settings (VIP, Policies, Monitoring ...)
6. Validate the HA/DR Environment
 1. Perform a Planned Switchover Scenario
 2. Simulate an Unplanned Failover Scenario
7. Run HammerDB Workload and Application Validation Test

- ✓ High Availability with Automatic Failover
- ✓ Lower Operational Complexity
- ✓ Improved Database Reliability

EDB Postgres for Kubernetes on IBM Power : an Enterprise grade Database as a Service (DBaaS) solution



EDB Technology

Stack of enterprise grade products designed, developed, and supported by EDB

Many EDB products for server-based deployments are available for Kubernetes - Oracle Compatibility, workload optimizations, TDE and other enterprise security features



Kubernetes Experience

EDB Postgres for Kubernetes operator - based on the EDB created CloudNativePG operator

EDB deep expertise leverages Kubernetes to operationalize Postgres cluster management



Red Hat Certified

Red Hat Certified Kubernetes Operator
Available on Red Hat OpenShift

IBM Power : Platform Leadership

Availability / Resiliency
99.9999% uptime

End to End
security

Sustainability

Performance &
Efficient Scaling

Power On-Premises



PowerVS Private



PowerVS



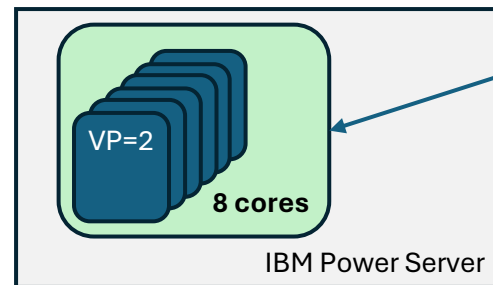
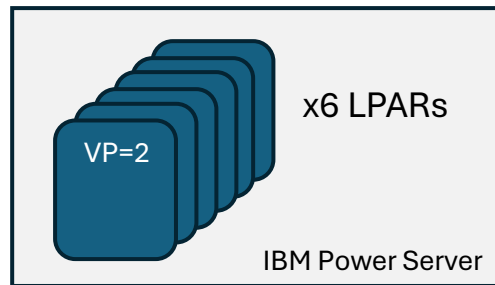
EDB Postgres on IBM Power Economics : Flexibility and Optimization

EDB (EnterpriseDB) products are licensed on an **annual subscription basis**

EDB Postgres Units Of Measure (UOM) is uniCore (*) which may be either a physical core in a physical server, a virtual core in a virtualized server / virtual infrastructure, or a virtual CPU in a public IaaS or PaaS environment where the Software is installed or running.

- No complex licensing, simple T&C
- No Core Factor = same licensing model as x86
- IBM PowerVM Shared Processor Pool Benefits

12 Cores EDB Subscription



User defined Shared Processor Pool

Sum VP > Shared Pool Size
8 Cores EDB Subscription

Recognition of Unique Power Features (RG, PEP 2.0, LPM) without EDB Postgres Licensing Impacts

Live Partition Mobility (LPM) allows a customer to deploy their purchased subscription in one environment and then later move those uniCores to a new different environment (License Mobility)

Power Enterprise Pool (PEP 2.0) optimize Infrastructure Acquisitions Costs and/or help transition to Pay per Use

- Power is capacity based SW Licensing vs VM based licensing on x86 & Public Cloud
- PEP 2.0 is REAL Consumption Model vs Pay per assigned resources in cloud environments.

Power11 Resource Group improves **Workloads Isolation and Performance** thanks to shared processor dispatching optimization.

(*) minimum initial purchase for each environment is 8 uniCores. a three-year subscription is required if fewer. <https://www.enterprisedb.com/enterprisedb-license-support-and-services-agreement-5>

Power is/ the Enterprise DATA platform

Transform PostgreSQL to Enterprise-Ready and/or Upgrade to Enterprise-Grade PostgreSQL Database

Upgrade from community edition to a fully supported platform

Leverage enterprise class management, reliability, control and tooling out of the box



RHEL Licensing Parity on Power as x86
No Virtualization added Costs
Fewer EDB Subscription on Power than x86



Combine Data security, governance and AI needs.

Built-in AI Tooling with EDB Postgres AI's accelerators (embedding/vector extensions, pipelines, pgVector)

EDB's AI / Analytical Features complementing Watsonx.data Analytics



High-Throughput, Low-Latency AI Data Processing Unified Platform



Corporate strategy for modern applications built on Open-Source Databases

DBaaS on Openshift on IBM Power



Smooth migration from x86 using Red Hat Openshift MAC

Escape Oracle Lock-In while Optimizing Oracle Landscape Oracle Migrations & Modernization



IBM Power is Oracle Cost Savings/Cost Avoidance
Power is Investment Protection
OSDB on Power is Oracle Costs Savings

Oracle Database Migration Journey with EDB

<https://www.enterprisedb.com/products/migration-free-tool-migrating-oracle-postgresql>

1. Preparation



Download EDB DDL Extractor

Get the latest EDB DDL Extractor for optimal assessment results.



Run SQL Script

Execute the DDL Extractor script on oracle database to generate a multi-schema DDL file.

2. Migration Portal Assessment

Automated Repair

The Portal assesses DDLs for EPAS compatibility and applies automated repairs via the Repair Handler.

Code Transformation Example (Repair Handler)

ORIGINAL ORACLE DDL

```
CREATE TABLE tab (  
  ID INT NOT NULL ENABLE  
);
```

TRANSFORMED EDB EPAS DDL

```
CREATE TABLE tab (  
  ID INT NOT NULL  
);
```

-ERH-2009 deleted [ENABLE]

3. Adaptation

Manual Refinement

Use the Knowledge Base and AI Copilot for suggestions and syntax equivalents.



AI Copilot

Ask questions about compatibility, syntax or EPAS equivalents



Knowledge Base

Obtain suggestions for resolutions or workarounds

7. Data Validation

6. Data Migration

Data Migration Options

Snapshot: EDB Migration Toolkit to migrate Data.

Streaming: Replication Server for CDC.

5. Schema Migration

Migration Options



Online: Direct migration to EPAS



Offline: Export to SQL file



Reporting: Generate final reports

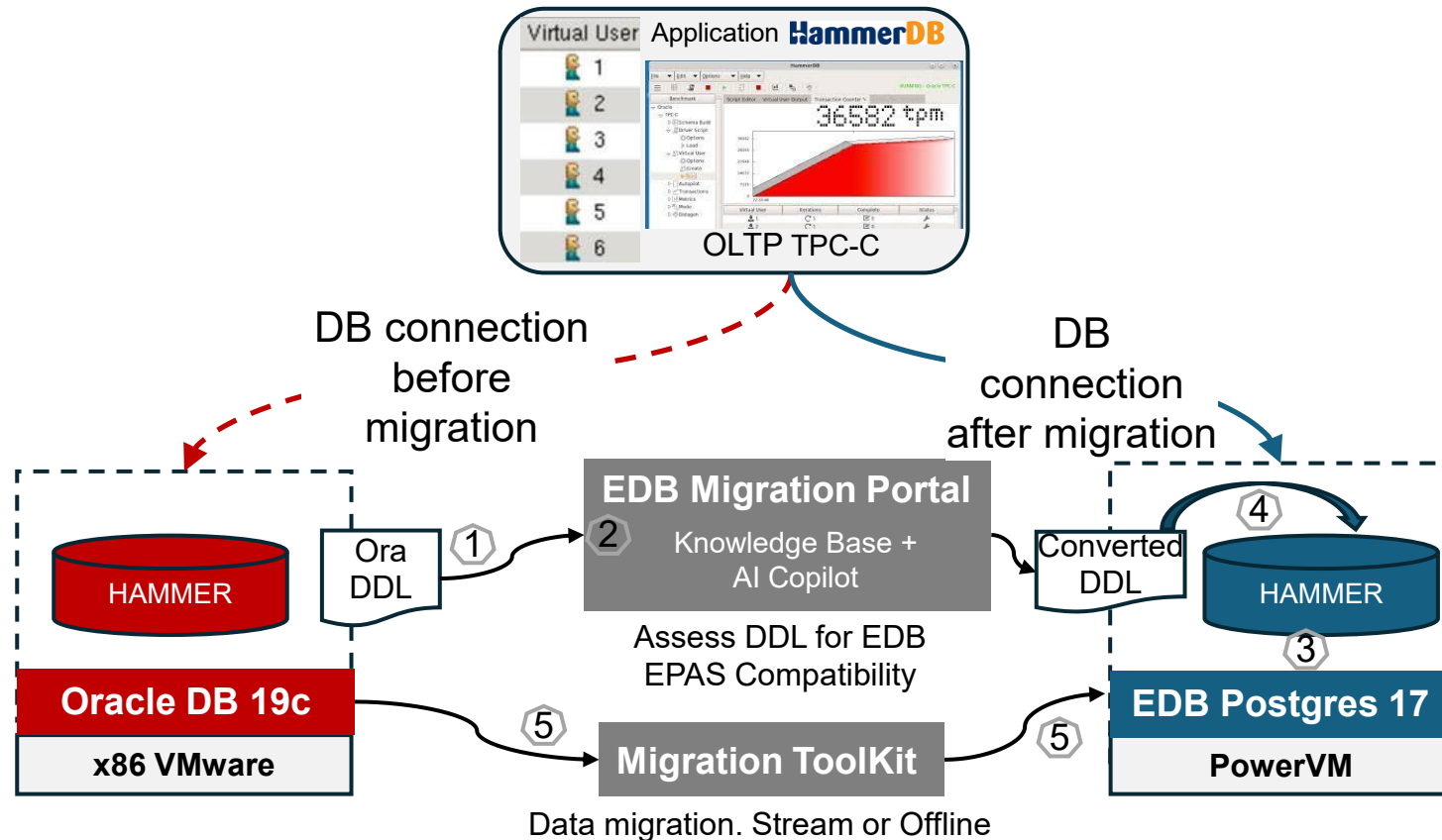
4. Reassessment



Final Reassessment

The Portal reassesses modified DDLs for EPAS compatibility and ready for migration.

Database Migration from Oracle/x86 to EDB Postgres/IBM Power



Demonstration scenario

1. Run DLL Extractor on OracleDB and Upload DLL file to EDB Migration Portal
2. Analyze Oracle database schemas and convert DLL statement for EDB EPAS Compatibility
3. Create EDB Postgres Instance
4. Deploy converted Oracle DDL into EDB Postgres Instance
5. Use Migration Toolkit for offline Oracle DB migration
6. Sanity Check
7. Restart application load into EDB Postgres Instance and check TPM performance

- ✓ Accelerate Oracle migrations, Reduce migration complexity with AI-driven compatibility
- ✓ Minimize downtime with proven migration tooling
- ✓ Lower database licensing costs with EDB PostgreSQL on IBM Power

Questions ?



Thank You !

Any question, contact us

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