



Highlights

- Frees you up from managing infrastructure
 - Delivers 2.2X superior price/performance
 - Simplifies resiliency
 - Eliminates bottlenecks
 - Increases security without adding silos
-

EDB Postgres with IBM Hyperconverged Systems powered by Nutanix

EDB Postgres is the industry's leading open source operational database. It is enterprise grade, relational, compatible with leading commercial database technology, and capable of supporting mixed data types. With its Oracle compatibility, users get a high-performance enterprise-class database management system that can significantly reduce licensing and support costs.

EDB offerings run native PL/SQL, the proprietary SQL language for Oracle, and include automated migration tools to help save time and minimize uncertainty in the migration process. Together, these features make migrating to EDB Postgres substantially less risky and time consuming for existing Oracle users.

While there are many open source relational databases available today, EDB Postgres is one of the few capable of supporting mission-critical enterprise applications, both from a data protection and performance standpoint. These are top criteria for any operational database. To keep up with these demands, organizations need an IT infrastructure that is self-healing, secure and scales performance simply.



Focus on Postgres data, not Postgres infrastructure

The IBM® Hyperconverged Systems Platform powered by Nutanix easily enables performance and resiliency for Postgres, allowing Postgres experts to spend more time extracting insight from data. It does this through the following:

- **Superior performance.** Lower latency design means faster response time on transactions and queries.
- **Endless scalability.** Applications can run at any scale of total data, size of active data set or compute needed.
- **Higher availability.** Built-in self-healing, backup and disaster recovery capabilities provide better uptime for databases than traditional infrastructure.
- **Simple management.** Installation, deployment, backup and ongoing management can be done with just a few clicks. This speeds up database deployment, administration and capacity expansion.

IBM® Power Systems™ and the POWER® microprocessor are designed for data-intensive workloads, providing more threads per core and an addressable cache size beyond what is found on commodity processor-based systems. These benefits translate into superior performance for Postgres running on POWER.

Eliminate bottlenecks

Postgres deployments can expand quickly as new users or workloads are added. By using IBM Hyperconverged Systems powered by Nutanix you start small and scale out without worrying about bottlenecks that occur with traditional architectures:

- **Higher performance.** 77 percent more throughput per server
- **Lower acquisition cost.** 75 percent of the price of comparable x86 processor-based appliances
- **Scale incrementally.** Start small and grow linearly by adding nodes one at a time.

Administrators can scale existing Nutanix clusters or deploy new clusters in minutes with less concern for compute, storage and network bottlenecks. A Nutanix enterprise cloud provides linear scaling, so Postgres deployments can grow

without worry. Each additional node delivers predictable performance to support Postgres search heads, indexers, and other shared workloads. Because of its distributed architecture, a Nutanix enterprise cloud prevents one workload from starving another, allowing the infrastructure to be shared, if desired.

Ease of DevOps

- **Lifecycle management.** With the Nutanix Distributed Storage Fabric (DSF), Postgres indexers access data locally. Postgres data is automatically stored on the right media, and the resources allocated to each indexer can be changed effortlessly.
- **Data locality.** Nutanix continuously monitors data access patterns and places data in the most appropriate location, complementing the Postgres lifecycle.
- **Next-generation virtualization.** Designed for the era of unstructured data, Nutanix AHV is a hypervisor that accelerates deployment and eases management. It is included at no extra cost with purchases of IBM Hyperconverged Systems powered by Nutanix eliminating virtualization licensing costs.
- **One-click management.** With Nutanix Prism, Postgres administrators easily monitor and manage all infrastructure used by Postgres, gaining full visibility of storage, CPU, and memory runway. One-click software, hypervisor, and firmware upgrades and one-click problem remediation, take the pain out of day-to-day operations.

Increase security without adding silos

To ensure the security of sensitive data, many database architects find they have no choice but to deploy dedicated infrastructure for just the database. However, Postgres can be deployed securely on a Nutanix-based cluster with other workloads, avoiding the need for a separate silo of infrastructure.

Nutanix combines features such as two-factor authentication and data-at-rest encryption with a security development lifecycle. Nutanix systems are certified across a broad set of evaluation programs to ensure compliance with the strictest standards.

73% less time to deploy compute¹

61% less time to manage²

97% fewer occurrences of downtime³

*2.2x better price performance over commodity
processor architectures for EDB Postgres⁴*

Benefits

- Frees you up from managing infrastructure
- Delivers superior performance and economics via POWER architecture
- Simplifies resiliency

For more information

For more information about IBM Hyperconverged Systems powered by Nutanix and about EDB Postgres on Power Systems, contact your IBM sales representative or visit ibm.com/us-en/marketplace/hyperconverged-systems/details and ibm.com/power/solutions/modern-data-platform-mongodb.



© Copyright IBM Corporation 2018

IBM Corporation
IBM Systems
Route 100
Somers, NY 10589

Produced in the United States of America
March 2018

The IBM logo, ibm.com, Power Systems and POWER are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at “Copyright and trademark information” at www.ibm.com/legal/copytrade.shtml.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED “AS IS” WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

^{1,2,3,4} Based on IDC study “Nutanix Delivering Strong Value as a Cost-Effective, Efficient, Scalable Platform for Enterprise Applications”, August 2017



Please Recycle
