



EDB Postgres® AI for CloudNativePG™



In today's cloud-native landscape, EDB Postgres AI (EDB PG AI) for CloudNativePG (CNPG) stands out as the premier enterprise-grade solution for running mission-critical PostgreSQL workloads on Kubernetes. As the creator of and primary contributor to both CNPG and EDB PG AI, EDB provides the expertise that empowers organizations to transform standard Kubernetes clusters into a self-healing, high-availability database platform. EDB's advanced security capabilities, Oracle compatibility, and 24/7 world-class support turn your Kubernetes deployments to enterprise-ready deployments.

Whether you are modernizing legacy applications or building the next generation of AI-driven microservices, EDB PG AI provides the automation and operational safety net required to scale with confidence across hybrid or multi-cloud environments.

Why PostgreSQL for Kubernetes?

Choosing PostgreSQL for Kubernetes is a strategic move for teams looking to unify their infrastructure and treat their database with the same philosophy as their applications. While databases were traditionally kept on virtual machines, the maturity of Kubernetes operators, in particular CNPG, has changed the game.

Here is why PostgreSQL is a top choice for Kubernetes environments:

Data portability and control: Reduce extensive rewrites and move workloads seamlessly across any cloud or on-premises environment using the Kubernetes standard and flexible streaming replication.

High availability and self-healing: Leverage native orchestration to provide automated failover and node rescheduling and to establish rules that prevent single points of failure.

Continuous availability: Streamline operations with orchestrated maintenance and achieve near-zero downtime through automated rolling updates and in-place operator upgrades, using seamless switchovers to maintain cluster health without manual intervention.

Why choose EDB PG AI for CNPG?

EDB PG AI delivers the stability, expertise, and portability required for mission-critical workloads. While the open-source CNPG is robust, EDB PG AI provides the enterprise-grade assurance and advanced features required.

24/7 expert support: Access to the world's leading Postgres and CNPG contributors to resolve complex Kubernetes database interactions

Long-term continuity: Extended support windows for stable versions so you aren't forced into frequent major upgrades

Platform-native AI tools: Harness built-in vector capabilities and analytical engines for modern AI applications. EDB PG AI provides a certified suite of extensions, ensuring your Postgres environment is both innovative and production-ready

Oracle compatibility: Ability to easily migrate Oracle legacy applications to Kubernetes

Security without compromise: Enterprise-grade data protection through Transparent Data Encryption (TDE), granular RBAC with full TLS/SSL support, securely managed extensions, and Iron Bank-hardened container images

Improved efficiency: Zero-touch automation across your entire stack with GitOps and IaC practices

Expanded high availability and self-healing: Achieve zero-data-loss availability with CNPG that automates failover and self-healing through quorum-based synchronous replication and failover

EDB PG AI delivers the architectural integrity and deep expertise required to run your most critical workloads with total confidence. With EDB PG AI for CNPG, we bridge the gap between uncompromising enterprise-grade reliability and the operational agility of Kubernetes.

To learn more:



Scan Me

EDB Postgres AI is the first open, enterprise-grade sovereign data and AI platform, with a secure, compliant, and fully scalable environment, on premises and across clouds. Supported by a global partner network, EDB Postgres AI unifies transactional, analytical, and AI workloads, enabling organizations to operationalize their data and LLMs where, when, and how they need them. For more information, visit enterprisedb.com

© EnterpriseDB Corporation 2026. All rights reserved.

