



# Unleash the Power of Postgres in Kubernetes with CloudNativePG and EDB

**CloudNativePG** transforms PostgreSQL deployment on Kubernetes, enhancing database operations for a cloud-native world. Created by EDB and released as open source, CloudNativePG simplifies the management of primary/standby database clusters, offering streamlined replication and maintenance.

It's designed for agility and fortified security, which are essential for scalable and resilient modern enterprise applications.

# Why Choose CloudNativePG?

With its focus on adaptability and efficiency, CloudNativePG simplifies complex database tasks, ensures continuous availability and aligns with Kubernetes' dynamic scaling and self-healing. It stands out for its ability to bolster your infrastructure, propelling your business's technological edge and operational resilience.

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# 4 Pillars of Excellence



## Seamless Kubernetes API Integration

Utilize the Kubernetes API to manage PostgreSQL databases with finesse in cloud-native setups, through the operator pattern.



## Declarative Configuration

Deploy, scale and maintain your databases with automation that streamlines your operational workflows.



## Secure by Default

Secure your sensitive data with robust security protocols and industry-leading features at all layers (source code, containers, Kubernetes clusters and cloud).



## Advanced Observability

Obtain critical insights with integrated monitoring and logging, improving diagnostics and strategic decisions.

# Key Features

## ✓ Automated Deployment and Scaling

Kubernetes-native system to manage PostgreSQL instances, easing administrative burdens.

## ✓ High Availability Configurations

Automated failover and recovery mechanisms maintain continuous database operations, even during unforeseen disruptions.

## ✓ Backup and Disaster Recovery

Embedded backup solutions safeguard your data, ensuring peace of mind.

## ✓ Custom Resource Definitions (CRDs) for PostgreSQL

Tailor and expand database features within the Kubernetes environment.

## ✓ Automated Deployment and Scaling

Kubernetes-native system to manage PostgreSQL instances, easing administrative burdens.

## ✓ Smooth Integration with CI/CD Pipelines

Database management is seamlessly integrated with DevOps and GitOps processes, enhancing overall agility.

## ✓ Declarative Management

Specify database requirements and let CloudNativePG orchestrate the details.

## ✓ Scalable Performance

Adjust PostgreSQL database resources effortlessly to accommodate fluctuating loads.

## ✓ Monitoring and Logging Integration

Maintain visibility into database performance and health metrics.

## ✓ Community and EDB Support

Access the collective knowledge of the CloudNativePG vendor-neutral and openly governed community, along with EDB's extensive support resources.

# Join the CloudNativePG Community

Participate in the evolution of CloudNativePG by engaging with our community. Start by adding a star to the project on [GitHub](#). For more information, resources and community connections:

[Visit CloudNativePG →](#)

# About EnterpriseDB

At EDB, we're not just supporting open source; we're driving its evolution. Our team of over 300 Postgres specialists and our active contributions to the PostgreSQL community position us as the go-to leader for all things Postgres.

As a CNCF Kubernetes Certified Services Provider and a Silver Member of CNCF & Linux Foundation, our credentials speak for themselves. We're committed to elevating the power of the cloud for modern applications, reflected in our founding membership in CloudNativePG and our certified operator for Red Hat OpenShift.

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