

# PostgreSQL



## Overview

JioCloud PostgreSQL as a Service delivers the power and flexibility of the world's most popular open-source relational database — fully managed and production-ready. It's designed for teams that need scalable, secure, and reliable data management without the complexity of handling infrastructure. The service provides automated provisioning, backups, high availability, patching, and performance tuning, so your engineers can focus on building next-generation applications. A unified UI console doubles as a reporting platform, giving you seamless control over administration, monitoring, and configuration. Whether powering high-traffic web apps, analytics workloads, or enterprise-grade systems, PostgreSQL combines the freedom of open source with the reliability of a fully managed PaaS, enabling fast, confident development and scalable, high-performance operations.

## Key Features

- **Performance and scalability**  
Easily scale compute and storage, manage high-traffic applications, and leverage connection pooling and read replicas for optimal performance.
- **Security and compliance**  
Protect data with end-to-end encryption, role-based access, private network virtualization, and fully auditable activity logs.
- **Reliability and recovery**  
Automated backups, built-in asynchronous high availability, and configurable disaster recovery keep your data safe and accessible.

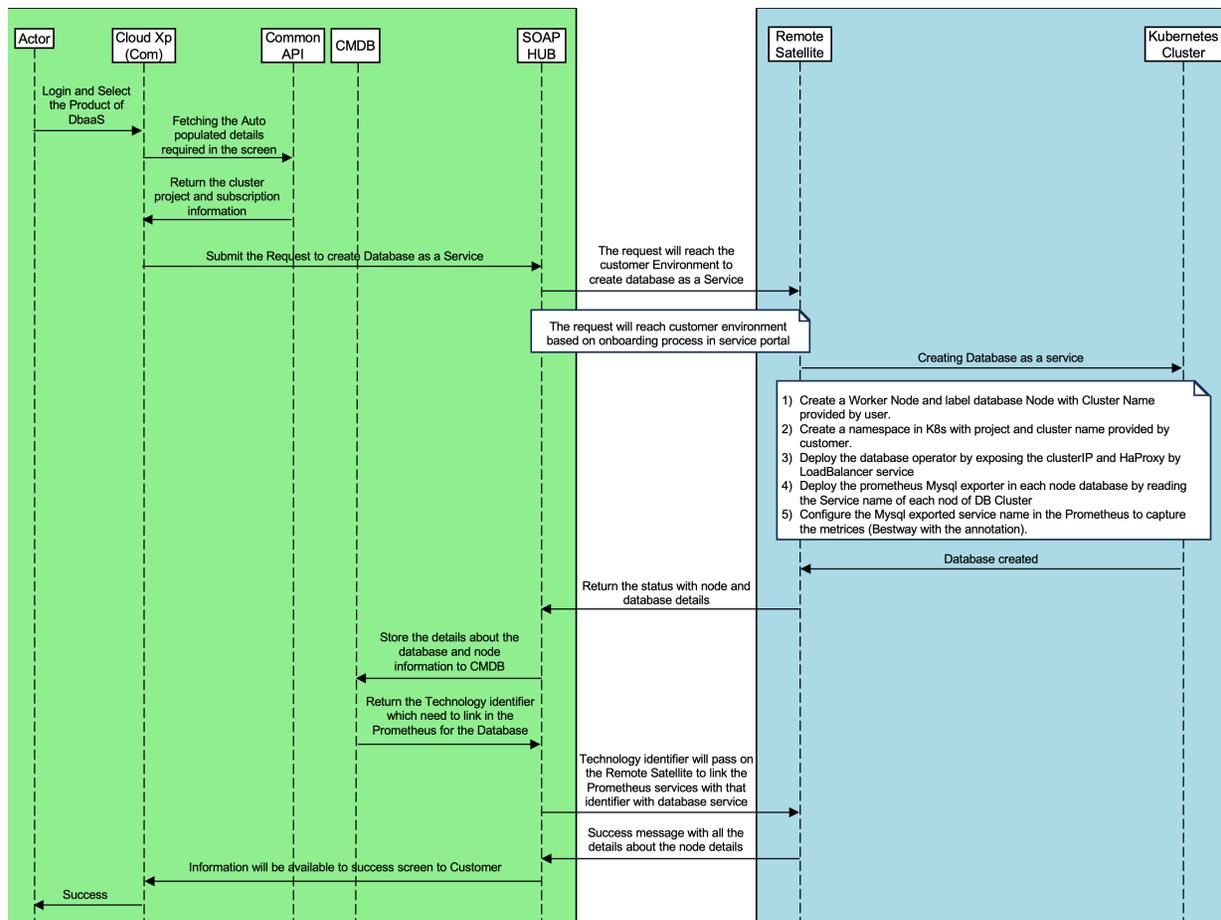
- **Developer and DevOps tools**  
Deploy, monitor, and manage PostgreSQL via the portal – regardless of your preferred package or extensions.
- **Backup and restore**  
Scheduled, on-demand, or overnight backups with point-in-time restore ensure your data is always recoverable.
- **Security patching and versioning**  
Control updates and select PostgreSQL versions to maintain secure, up-to-date instances.
- **Unified management**  
Manage your entire PostgreSQL environment from a single dashboard with full visibility into operations and performance.

## Benefits

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- **Enterprise-grade performance**  
Select and configure parameters to enable advanced performance optimizations.
- **Fast speed-to-launch**  
Launch a production-ready PostgreSQL database in under an hour.
- **Robust availability**  
Easily configure disaster recovery clusters with flexible sizing and minimal setup.
- **Guaranteed uptime**  
SLA-backed availability ensures mission-critical applications stay running.

## Use Cases



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- **Finance and banking**  
Run core transactional systems with full compliance and high availability.
- **Healthcare**  
Store and process sensitive health data in HIPAA-compliant environments.
- **Government and public sector**  
Deploy PostgreSQL behind your firewall for full data sovereignty and control.
- **SaaS providers**  
Provide isolated database environments per tenant with predictable performance.
- **Retail and eCommerce**  
Analyze data in real time without compromising availability during traffic spikes.