

DBaaS FOR RED HAT OPENSIFT

DBaaS Anywhere, with Any Storage

Brief

Red Hat and KubeDB Strategic Partnership

Delivering Joint Solutions for Red Hat + OpenShift Environments:

An all-in-one reliable DBaaS platform for enterprise environments solving database deployment at scale:

- Multi-cluster
- Multi-tenancy
- Public/Private Cloud

Maximize operation efficiency and security with:

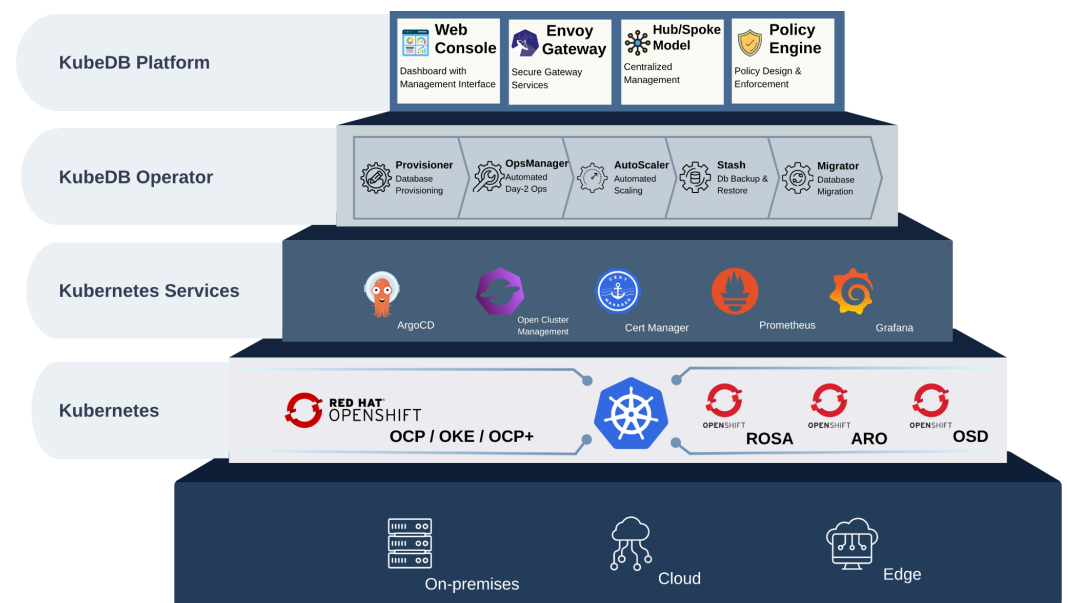
- Consistent operations
- Automation
- Data Protection



Multi-Tenant DBaaS for Red Hat OpenShift

Enterprises running modern applications on Red Hat OpenShift struggle to deliver databases quickly. They must maintain security, governance, and operational control, but are often forced to choose between restrictive cloud-managed services or complex manual Kubernetes operations.

KubeDB delivers a cloud-native Database-as-a-Service (DBaaS) platform directly on Red Hat OpenShift, enabling platform teams to standardize and govern production-ready databases across hybrid and air-gapped environments while giving developers self-service access through Kubernetes-native workflows.



Implementation Benefits

Lower operational overhead

KubeDB standardizes database provisioning, upgrades, scaling, and recovery through declarative workflows, eliminating custom automation and one-off database clusters while reducing operational risk and manual error.

DBaaS without cloud lock-in

By running entirely inside Red Hat OpenShift, KubeDB enables organizations to deliver

DBaaS consistently across on-premises, public cloud, sovereign, and air-gapped environments—without dependency on hyperscaler-managed services.

Predictable cost and storage flexibility

KubeDB works with existing enterprise storage platforms and Kubernetes storage classes, allowing organizations to optimize for performance, resilience, and cost while maintaining full data ownership.

Built-in governance and multi-tenancy

Platform teams can enforce security, access controls, resource limits, and lifecycle policies, enabling secure multi-tenant DBaaS at scale.

Accelerated developer productivity

Developers gain self-service access to production-ready databases through Kubernetes-native interfaces, removing ticket-based provisioning and shortening application delivery cycles.

Capabilities Overview

Native Red Hat OpenShift integration

KubeDB is designed as a first-class Red Hat OpenShift platform service, using Kubernetes APIs and declarative configuration to manage databases as governed, reusable services rather than standalone infrastructure.

Automated database lifecycle management

The platform automates provisioning, upgrades, scaling, and failover through policy-driven workflows, ensuring consistency across clusters and environments.

Multi-database platform support

KubeDB supports any databases (SQL/NoSQL), caches and message brokers, enabling platform teams to standardize operations across multiple database engines using a single DBaaS control plane.

Integrated data protection and availability

Built-in backup, restore, and high-availability mechanisms align with Red Hat OpenShift operational models, reducing reliance on external, database-specific tooling.

Centralized governance

KubeDB supports distributed Red Hat OpenShift environments across clouds and data centers, allowing centralized governance with local execution wherever applications run.

About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with [award-winning](#) support, training, and consulting services.



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linkedin.com/company/red-hat

North America

1-888-REDHAT1
www.redhat.com

Europe, Middle East, and Africa

00800 7334 2835
europe@redhat.com

Asia Pacific

+65 6490 4200
apac@redhat.com

Latin America

+54 11 4329 7300
info-latam@redhat.com

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