

## SOLUTION BRIEF

# Portworx Data Services

Increase reliability, operate efficiently across on-premises or cloud environments, and get to market faster with a database platform-as-a-service to support modern applications and development

Businesses run on data. But modern applications rely on a diverse set of databases, each with its own distinct deployment, security, and management needs. Without automation, engineering teams face challenges in managing databases at scale. Portworx Data Services is a database platform-as-a-service (dbPaaS) that gives teams one place to automate, manage, and monitor databases across any on-premises or cloud environment.

## Challenges of managing databases at scale for modern applications

### Growing complexity and heterogeneity of data services

Today's applications need multiple types of data services, including databases, streaming, messaging, and search - all running in a scalable, distributed environment. Each of these solutions has its own patterns for deployments, data protection, security, and more, making it difficult to deploy services and keep them up-to-date.

### Management overhead, overprovisioning, and cloud lock-in

Without a database platform-as-a-service, teams managing data services at scale struggle with ad-hoc maintenance, while coordinating with multiple vendors for support. To handle this complexity, many choose a managed cloud solution, which in turn leads to lock-in and uncontrolled cloud spend.

### Skills and knowledge gaps resulting in downtime and security breaches

Finding and retaining talent with unique skills for each new database is challenging, and lifecycle management time consuming. Without automation, engineering teams face challenges efficiently deploying and managing databases, increasing likelihood of security breaches or other failures.



#### Increase reliability

- Improve fault tolerance and recover faster with zero RTO
- Deploy and operate with database best practices, by default



#### Deliver efficiently anywhere, at scale

- Data portability across any on-premises or cloud environment
- Reduce operational costs
- Streamline Day 2 operations and easily scale to 1000s of nodes



#### Accelerate time-to-market

- Developer self-service to databases that provision in minutes
- Deploy from a broad, curated catalog of popular data services

## About Portworx Data Services

Portworx Data Services (PDS) simplifies operations for a comprehensive, curated catalog of databases and services, including MongoDB Enterprise, Redis, Microsoft SQL Server, and Kafka. It offers platform engineering teams policy-driven, streamlined operations and lifecycle management for databases across both on-premises and cloud environments, and empowers developers with on-demand, self-service access to the databases they need to accelerate innovation. By extending Portworx Enterprise, Portworx Data Services enhances data resiliency and protection for these databases.

**Data Services**

cassandra
 Consul
 Couchbase
 elastic
 kafka
 mongoDB

Microsoft SQL Server
 MySQL
 PostgreSQL
 RabbitMQ
 redis

portworx® data services
 Database Platform-as-a-Service

**Hybrid & Multi-cloud Ready**

On-prem | Hybrid Cloud | Public Cloud | Edge



One-click database deployments from a broad, curated catalog



Single touchpoint for 24/7 support across databases



Streamlined management from a single pane of glass



Multi-cloud portability to avoid cloud vendor lock-in

Figure 1. Portworx Data Services is a database platform-as-a-service that enables DevOps and platform engineering teams to provision and manage databases across the enterprise more efficiently, with greater uptime

## Deploy, manage, and scale databases with operational efficiency, anywhere

Portworx Data Services streamlines operations for database administrators and platform engineering teams by templating, standardizing, and automating lifecycle management for a broad, curated catalog of data services.

- **Streamlined Day 0 through Day 2 operations** for a broad catalog of databases, including templates for resource settings, storage options, and service configuration, as well as on-demand scaling and one-click updates.
- **Centralized management** through deployment and services dashboards and a unified control plane with web-based UI, API, and infrastructure-as-code access.
- **Hybrid- and multi-cloud agility.** Manage databases across on-premises, cloud, edge or hybrid environments to avoid the costs of cloud lock-in.

## Accelerate product development and delivery

Portworx Data Services empowers platform teams to deliver a database-as-a-service experience, giving developers self-service and on-demand provisioning to new databases and services.

- **Broad, growing catalog of curated data services for modern applications**, including PostgreSQL, Kafka, MongoDB Enterprise, Microsoft SQL Server, and more.
- **Developer self-service to databases, provisioned within minutes**, subject to guardrail policies and configurations set by database administrators and platform teams.

## Reduce downtime and increase data resiliency

Portworx Data Services extends Portworx Enterprise, the industry-leading Kubernetes storage and container data management solution, so organizations can architect container-aware data resiliency across on-premises, cloud, edge, and hybrid environments.

- **Seamless recovery for data and applications** through scheduled backups and automated restore capabilities
- **Built-in archive, backup policies, and capabilities** that support portability across clouds for rapid response to ransomware and cyber attacks
- **Granular, enterprise controls and security** with cluster-wide encryption, container-granular, or storage-class based encryption, and role-based access control at the account, project, cluster, and user levels

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## Additional Resources

- Learn more about Portworx Data Services at [portworx.com](https://portworx.com)
- [Try Portworx for free](#) with a personal trial
- [Request a demo of Portworx](#), the leader in Kubernetes storage and container data management

[portworx.com](https://portworx.com)

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