

## SOLUTION BRIEF

# Portworx Backup and Disaster Recovery

Architect data resilience with the easy button for Kubernetes data protection and disaster recovery policies.

An organization's greatest asset is its data, and infrastructure teams need to architect data resiliency to prevent data loss or application outages and ensure business continuity. However, modern applications in containerized environments need purpose-built data protection and disaster recovery that can quickly recover applications in the event of a disaster. Further, as cloud-native platforms grow in scope and scale, teams need the automation and security to run these processes at enterprise scale.

## Challenges of architecting data resiliency for modern applications

### Data availability is a large risk for enterprises

Across industries, customers and developers expect their applications to be available without interruption. However, disaster can strike at any time—whether that's an outage, accidental deletion, or corrupt data. A company can face devastating consequences to their revenue or reputation in the event of sustained data loss or service outage.

### Traditional VM-based backup and disaster recovery solutions won't work for Kubernetes

Kubernetes applications are purpose-built to be dynamic and distributed, meaning application components may be distributed across nodes. Traditional virtual machine based backups and replicas are not built to support these dynamic and distributed applications, and they can introduce inconsistencies that compromise recovery.

### Enterprises struggle to solve for data protection across multi-cloud environments

Many organizations choose to build their container platforms in hybrid and multi-cloud environments to avoid vendor lock-in, reduce costs, and gain flexibility. Teams need to be able to protect their data anywhere—whether it's on-premises or in the cloud.



#### Recover Data in a Single Click

- Self-service backup and single-click restores
- Built for Kubernetes application-aware and container granular backup



#### Secure Data Anywhere

- Support across any hybrid or multi-cloud environment
- Ransomware protection with delete protection and immutability
- Enterprise-grade RBAC



#### Replicate Data for Zero Data Loss

- Synchronous disaster recovery provides zero data loss
- Asynchronous disaster recovery enables flexible DR policies



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**Data Resiliency  
for Kubernetes**

### Any Kubernetes Service

Amazon EKS | SUSE Rancher | Red Hat OpenShift | Azure AKS | Google GKE | + more

### Hybrid and Multi-cloud Ready

On-prem | Hybrid Cloud | Public Cloud | Edge



Self-service Backup  
in a Few Clicks



Recover and Migrate  
Anywhere in Minutes



Sleep Sound with  
Ransomware Protection



Ensure Enterprise  
Business Continuity

## About Portworx Backup

PX-Backup is the built for Kubernetes data protection solution, providing fast, easy, and secure backup and restore for persistent data anywhere.

### Scalable backup management, made simple

PX-Backup protects data at the pod, tag, or namespace level and provides scalable data protection to backup or restore multiple namespaces for hundreds of applications in a single click.

- **Self-service backup** on a point-and-click UI makes it easy for users to schedule automated backup policies, define pre- and post- rules, and restore full applications with a single click.
- **Centralized management** with actionable dashboards gives users and administrators a single pane of glass to view backup health and quickly target issues.
- **Application-aware and container-granular** backup protects the full application, from the data to the application components, and restores targeted containers.
- **Backup and restore virtual machines (VMs)** running on containers directly from PX-Backup dashboards, simplifying VM and container management.

### Safe and secure data anywhere

PX-Backup secures data with enterprise grade features, so your data is always available when you need it. Portworx also provides bi-directional support to migrate applications between any Kubernetes environment as part of a scheduled migration, upgrade, or dev to production pipeline.

- **Hybrid- and multi-cloud support** enables users to backup, restore, or migrate applications in any Kubernetes environment, whether it's in the cloud or on-prem.
- **Enterprise-grade role-based access control** gives users and admins only the permissions necessary for their respective roles.
- **Ransomware protection** with delete protection and immutability prevents malware and bad actors from accessing your data.

## About Portworx Disaster Recovery

For organizations running mission-critical applications in containers, PX-Disaster Recovery makes providing data resiliency simple with automated and flexible disaster recovery (DR) that runs in any container environment.

### Flexible disaster recovery policies

PX-Disaster Recovery enables configurable recovery policies so you can set RPOs (Recovery Point Objective) and RTOs (Recovery Time Objective) that meet your business and compliance needs, reducing the risk of data loss or extended outages.

- **Synchronous DR** enables users to meet zero RPO SLAs, providing virtually no data loss for mission-critical applications. Replicated clusters must be within the same metro region (latency of <10ms).
- **Asynchronous DR** provides flexibility for tier 2 or 3 applications that can tolerate more data loss or downtime. Set configurable replication schedules starting with a 15 minute RPO between clusters.

### Simplified and centralized disaster recovery

PX-Disaster Recovery simplifies protection of Kubernetes applications with automated disaster recovery and seamless failovers, enabling quick recovery with limited downtime.

- **Container-aware** disaster recovery ensures that replication occurs at the container level, so all application components can be recovered at once.
- **Fast failovers** ensure quick recovery across clusters and regions in the event of a disaster.
- **Hybrid- and multi-cloud support** provides users with a single pane of glass to protect applications in any Kubernetes environment, whether it's in the cloud or on-prem.

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## Get started with Portworx Backup and Portworx Disaster Recovery

- Learn more about Portworx at [portworx.com](https://portworx.com)
- [Try Portworx for free](#) with a free 30-day trial
- [Request a demo of Portworx](#), the leader in Kubernetes storage and container data management.

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

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