

SOLUTION BRIEF

Kubernetes Disaster Recovery for Service Providers

Easily protect containerized applications with automated disaster recovery from Portworx® PX-DR.

Service providers are turning to Kubernetes to drive next-generation advanced services. Containerized network functions (CNFs), continuous integration–continuous delivery (CI-CD), and extending IT automation are top of mind for service providers. What if vital containerized applications were lost? Portworx PX-DR automates the protection of your containerized applications with Kubernetes optimized, cloud-native disaster recovery. PX-DR doesn't just protect service provider data; it also protects application configurations and Kubernetes objects. This makes recovering applications as easy as redeploying your pods. You can spend less time worrying about protecting containers, and more time deploying revenue-adding services.

Comprehensive Multicloud Disaster Recovery

Portworx PX-DR extends [Portworx Enterprise](#), the leading storage platform for Kubernetes, with a rich set of functionalities to deliver true multicloud application and data protection. PX-DR enables:

- Multisite synchronous replication for zero-RPO disaster recovery across a metro area
- Continuous backup and protection through asynchronous replication across WANs
- Protection for groups of pods, a namespace, or an entire cluster
- Single-command protection and restoration for applications
- Application-aware protection for complex distributed applications

Disaster recovery is not simply a point-in-time copy of data, especially when it is used for mission-critical service provider applications. Ensuring that you can recover your databases, message streams, machine learning, and data pipelines quickly is crucial for



Container-Aware Recovery

Protects critical container-based applications with metro-distance zero RPO or continuous WAN replication



Application-Centric Protection

Out of the box integration with key service provider applications



Complete Platform

Part of the Portworx container-native storage solution, the most complete platform for Kubernetes-based applications

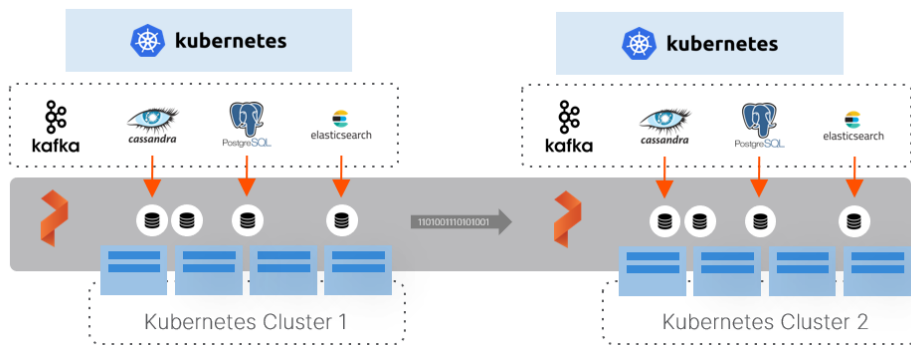


Figure 1. PX-DR continuously sends the incremental changes in Kubernetes Cluster 1 applications and Portworx data. Kubernetes Cluster 2 has every controller (Stateful set, Replication controller) ready to spin up Pods.

true disaster recovery. By protecting data, application configurations, and Kubernetes objects, PX-DR makes recovering applications as easy as redeploying your pods. Portworx PX-DR includes out-of-the-box integration with many popular services, such as Kafka, Elasticsearch, Cassandra, MongoDB, PostgreSQL, MySQL, and many more. You no longer need to spend time building and supporting home-grown protection solutions.

Traditional disaster-recovery solutions aren't a good fit for Kubernetes applications because they don't speak the language of Kubernetes. Protection needs to just happen. Relying on a manual process is unreliable and doesn't scale. Implementing complex scripts is unmanageable. You need bi-directional support to backup and restore across all your clouds— public and private. Moving data and replicating storage across clouds is difficult. PX-DR makes it easy and automated.

Why Service Providers Choose Portworx

Portworx is the most widely used [container-native storage solution](#) by Global 2000 organizations. These industry leaders choose Portworx because it dramatically increases developer productivity, simplifies the advanced-services deployment, and improves operational efficiency. It helps eliminate downtime and data loss while reducing storage and infrastructure costs. With Portworx, global service providers can:

- Accelerate time to market for container projects delivering advanced services to grow revenue.
- Reduce infrastructure costs by 30% to 60% while increasing flexibility.
- Enable and protect databases and popular data services on Kubernetes.

By enabling data availability, data security, backup, and disaster recovery for Kubernetes-based applications running on-prem or across clouds, Portworx has helped dozens of Global 2000 companies such as T-Mobile, Comcast, Carrefour, GE Digital, Lufthansa, and SAIC run containerized data services in production.

Additional Resources

- Try out [PX-DR for free](#).
- Learn more with the [“Essential Capabilities of Disaster Recovery for Kubernetes”](#) white paper.

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