

SOLUTION BRIEF

Unlock the Value of Kubernetes Data with Portworx

Fully integrated, container data management solution.

Modern application development is at the forefront of all organizations, serving as the foundation for accelerating innovation across the enterprise. The ability to bring these modernization initiatives to life is crucial for enterprises as they look to keep pace with the innovation of their competitors and the industry at large. These efforts have led to a rapid increase in the adoption of Kubernetes and containers, but storage and data management remain a critical hurdle for organizations to successfully implement Kubernetes at scale. Existing solutions, like external storage systems with CSI drivers or open-source storage solutions, are simply not innovative or comprehensive enough to support Kubernetes data at scale.

Unlock the Power of Kubernetes at Scale

For platform engineering or DevOps leaders who struggle to address complexity and resiliency in the data infrastructure underpinning application modernization initiatives, Portworx® by Pure Storage® unlocks the value of Kubernetes data at enterprise scale. Portworx provides a fully integrated container data management platform to automate, protect and unify modern applications across enterprise hybrid and multi-cloud deployments. Unlike external storage systems with CSI drivers or open source storage solutions, Portworx accelerates time to revenue, delivers data resiliency, and empowers agility at enterprise scale without any compromises.



Accelerate Time to Revenue

- Improve storage operations efficiency with automated Day 1 & Day 2 management and intelligent volume placement services



Architect Data Resiliency

- Achieve zero data loss and reduce time spent managing BCDR and data protection by up to 75%



Achieve Data Agility

- Portworx delivers container data management for any K8s distro across any on-prem, hybrid, or cloud infrastructure

The Portworx Difference

Portworx by Pure Storage, recognized by IDC as a [Leader in Container Data Management](#) in the 2023 MarketScape, aims to address the most pressing challenges faced by enterprises as they scale Kubernetes into production:

Challenge	Portworx Value
<p>Need to Accelerate Innovation</p> <p>Current storage and data management approaches, like CSI drivers or open source storage solutions, cannot keep up with the dynamic nature of cloud native applications, with stateful workloads quickly running into performance and scalability issues as more workloads are deployed. In addition, heavily manual processes slow application development, feature release velocity, and machine learning (ML) model building.</p>	<p>Accelerate Time to Revenue</p> <p>Portworx enables customers to accelerate time to revenue by delivering an enterprise-grade data management platform that automates storage processes and reduces friction across the entire DevOps or MLOps lifecycle. This not only improves operational efficiency but also enables self-service access for developers and data scientists to storage and database services with industry-leading availability, scalability, and performance.</p>
<p>Application Outages and Data Loss</p> <p>Enterprises require a range of reliability SLAs including zero data loss, but traditional BCDR approaches are unable to support mission-critical Kubernetes applications at scale. In addition, traditional VM-based data protection solutions were not designed for Kubernetes and lack the application-awareness and container granularity required of modern application environments. This leads to inconsistent implementation of security policies and increased risk of data loss.</p>	<p>Architect Data Resiliency</p> <p>Portworx ensures organizations can architect container-aware data resiliency into modern platforms (IDPs and PaaS) running anywhere from Day 1. Portworx offers a range of BCDR solutions including, but not limited to, enabling zero data loss with synchronous disaster recovery. In addition, Portworx supports cluster-wide encryption, built in RBAC, and automated backup and archive policies, reducing security risk, simplifying compliance, and ensuring rapid response to cyber attacks.</p>
<p>Complexity and Vendor Lock-in</p> <p>As more and more enterprises become multi-cloud, the complexity of each environment (public, private, hybrid) adds additional learning curves, compatibility issues, cost, and storage management challenges. In parallel, the rapid adoption of containers and Kubernetes has forced enterprises to support both application development platforms, often across different storage architectures, leading to a duplication of data management efforts and a lack of consistent data management policies.</p>	<p>Portworx Value: Achieve Data Agility</p> <p>Portworx abstracts away the complexities of different storage infrastructures of today's hybrid and multi-cloud environments, reducing costs and the need for deep expertise across multiple clouds. Built to be agnostic at both the infrastructure and Kubernetes distribution layer, Portworx uniquely offers a container data management solution that provides a unified experience across any Kubernetes distribution and across any mix of on-prem and cloud infrastructure. This open, flexible solution enables customers to architect a cloud operating model that runs and scales across the enterprise.</p>



Customers Rely on Portworx

Customers choose Portworx for a cloud-native data management platform that provides persistent storage, data protection, and DBPaaS capabilities for Kubernetes and container-based ecosystems across multiple platforms, data services, and cloud environments.

“It’s essential that our entire business runs on the same scalable infrastructure so we can measure the success of every product and service using consistent metrics. As a cloud-agnostic Kubernetes storage solution that integrates with every major platform we use, Portworx is perfect for the job.”

JOHNSON CONTROLS

“The underpinnings of the platform really helped. It helped Comcast save millions in operational cost with the observability program. The system provided the ability to quickly identify issues that are long-running as well as new issues that popped up. That helped reduce the overall failure rate to under 1%.”

COMCAST

“At the end of the day, what we are talking about is enablement of developers and velocity of delivering services at a particular price point and at a particular quality. . . There’s hardly anything we can do in Kubernetes without having persistent storage and that is what has brought us together with Portworx.”

FORD

Additional Resources

- Find out more about [Portworx](#).
- Learn why Pure Storage was named [A Leader in the 2023 Container Data Management IDC Marketscape](#)
- Hear what [customers have to say](#)

purestorage.com

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