



# The Kubernetes Storage Platform

## Amazon EBS and Amazon EKS Challenges

### Ensure enterprise-grade storage & data management for Kubernetes

Amazon EBS is convenient and easy to provision, but it was designed to provide storage to Amazon EC2, not containers. In highly dynamic Kubernetes environments, this leads to problems, such as lack of cross-AZ HA, limited density of volumes per host, slow and unreliable failover, and ultimately, increased costs. Additionally, customers still need to figure out how to solve backup, DR, data security and cross-region migrations.

## The Portworx Solution

### Storage & Data Management Platform for Kubernetes

Portworx Enterprise is a software-defined container storage platform that runs on top of Amazon EBS, Amazon EKS, Amazon EKS-A, and Amazon EKS-D to provide Kubernetes applications with scale-out storage, cross-AZ data availability, data security, backup, and disaster recovery in any Amazon region or AWS Outposts. Portworx has helped many Global 2000 companies—such as Carrefour, Comcast, GE Digital, Lufthansa, T-Mobile, and SAIC—run containerized data services in production. Portworx was named the #1 Kubernetes Storage Platform by GigaOm Research.

Improve application reliability with Kubernetes-granular storage, data availability, data security, backup, and DR while slashing your EBS storage costs in half.



#### Cross-AZ HA

When you run Portworx on top of Amazon EKS, your Kubernetes volumes are automatically replicated across AZs, providing faster failover and HA for Kubernetes applications.



#### Cross-region Migrations

Portworx PX-Migrate lets you migrate entire Kubernetes applications—including data & app configuration—between any AWS region, Amazon EKS location, or AWS Outposts.



#### Backup & DR

Portworx PX-Backup provides point-and-click backup and restore of Kubernetes applications across regions while PX-DR provides zero RPO disaster recovery.



#### Optimize Infrastructure

Portworx PX-Autopilot enables you to optimize your Amazon EBS usage by intelligently provisioning storage on demand.

## Portworx on AWS

For applications running on Kubernetes, Portworx enables you to get the most out of your Amazon EBS and Amazon EKS deployments.

By leveraging Amazon EBS for storage, the Portworx Kubernetes Storage Platform enables high-density container deployments with 100s of volumes per EC2 instance, cross-AZ high availability of Kubernetes apps, point-and-click backup and restore across any AWS region, Amazon EKS deployment or AWS Outposts, disaster recovery, and automated capacity management to save you money.

[Learn more at portworx.com/aws](https://portworx.com/aws)



## Features

### Container-granular Storage for Kubernetes

Portworx builds on top of Amazon EKS & Amazon EBS to provide container-granular virtual volumes optimized for Kubernetes applications. High density, high performance volumes are highly available across AWS Availability Zones and work seamlessly with Amazon Auto-Scaling groups. Additionally, when you use our advanced optimization engine, PX-Autopilot, Portworx enables you to dynamically provision Amazon EBS storage only when it is needed for Kubernetes applications, optimizing your infrastructure and saving you money.

### Enterprise-grade Data Protection for Kubernetes

Portworx PX-Backup and PX-DR extend the enterprise-class storage described above with data protection designed from the ground up for Kubernetes. PX-Backup provides point-and-click backup and recovery to or from any Amazon S3 endpoint globally. PX-DR provides DR across AZs, regions, Amazon EKS deployments, AWS Outposts, or even AWS Direct Connect data centers.

## Case Study: The Maru Group

### Challenges

To build a platform capable of delivering market and customer insights to its global clients, Maru Group knew AWS was the right cloud partner but needed a solution for container storage on top of Amazon EBS.

### Solution

The Portworx Enterprise Storage Platform for Kubernetes provides the container-granular storage, performance, density, and data protection necessary to power their platform.

### Results

Instead of relying on legacy technologies like NFS, which presented a single point of failure, The Maru Group increased performance and reliability of their platform while reducing operational overhead.

## AWS Integrations



### Amazon S3

Store high-value first-party data



### Amazon EKS/ EKS-A/EKS-D

Run containerized applications using Kubernetes



### Amazon EBS

High performance block storage

## Learn more

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