HPE Storage

HPE GreenLake for Block Storage built on HPE Alletra Storage MP

Mission-critical storage at midrange economics

HPE
GreenLake

Data is the life force of modern business. It powers the insights, innovation, and competitive advantage that move your business forward, faster. Yet while data-driven modernization is a top priority, achieving it requires confronting a host of data storage challenges that slow you down: management complexity and silos, scale-out limitations, and price-performance trade-offs.

To truly modernize today, you need more than a faster and more powerful box. You need to break away from legacy infrastructure and elevate your storage experience with a platform that unlocks agility by delivering the cloud experience everywhere, maximizes infrastructure efficiency at scale, ensures apps are always-on and always-fast, and eliminates price-performance compromises.

This is where HPE GreenLake for Block Storage built on HPE Alletra Storage MP comes in. Delivered and managed via the HPE GreenLake edge-to-cloud platform, this new block storage offering brings an intuitive cloud experience, efficient scale, and extreme resiliency and performance to your mission-critical apps — at a midrange price point.

HPE GreenLake for Block Storage built on HPE Alletra Storage MP provides mission-critical resiliency at midrange economics with the industry's first disaggregated, scale-out block storage with a 100% data availability guarantee.[1] It simplifies storage management and reduces risk with an AI-driven cloud experience, disaggregated scaling, and an always-on architecture. This frees you to transform from IT operator to service provider, focusing on accelerating outcomes and not managing infrastructure.

Simplify management with an intuitive cloud experience on-prem

Public cloud has set the standard for agility, with an operational model that enables you to deploy new apps and services quickly and easily. But public cloud isn't right for every workload. Case in point: most enterprise apps and data remain on-premises today because of security, data sovereignty, and latency concerns — to say nothing of the complexity of migrating and rearchitecting apps for the public cloud.

As a result, the technology ambitions of many enterprises have moved on from cloud first to embrace cloud everywhere. Organizations seek to harness the benefits of the cloud operational experience wherever their workloads live — not just in the public cloud but also from edge locations to on-prem data centers to co-location facilities.

[1] HPE storage substantiation

Enter HPE GreenLake for Block Storage, a cloud data service available through the HPE GreenLake platform, which brings the speed and agility of the cloud experience to your on-prem storage. HPE GreenLake for Block Storage simplifies operations across the lifecycle — from rapid deployment to automated provisioning to invisible upgrades. You manage and monitor your global block storage environment from a single cloud console and effortlessly protect your data with seamless, integrated backup and disaster recovery across your hybrid cloud. This frees up your organization to simplify operations and move faster while maintaining on-prem control of your data.

By leveraging an AI-driven cloud experience, HPE GreenLake for Block Storage makes underlying infrastructure invisible, helping eliminate silos, complexity, and the burden of day-to-day storage administration while shifting your operations from infrastructure focused to app focused. And unlike traditional storage management, with HPE GreenLake for Block Storage, you get a cloud operational experience that not only delivers the self-service provisioning agility that your line-of-business owners and developers need to accelerate app deployment, but it also frees IT resources to work on strategic, higher-value initiatives.

Better performance and better economics with disaggregated, scale-out storage

Legacy storage systems are unable to flexibly and cost-effectively scale out and keep pace with the growing and unpredictable demands of traditional, modern, and consolidated workloads. That's why organizations are seeking to maximize infrastructure efficiency and cost savings at scale with the ability to configure a storage system that meets the specific capacity and performance requirements of current workloads while letting you nondisruptively upgrade resources as needed.

HPE GreenLake for Block Storage built on HPE Alletra Storage MP leverages a disaggregated, scale-out storage architecture that enables you to scale capacity and performance independently, for greater efficiency and lower costs. You gain the flexibility to fine-tune, adapt, and elastically scale storage environments in line with workload requirements and evolving business needs.

You can start small with cost-efficient two-node entry-level configurations. Then, scale up and scale out to multinode configurations with granular performance and capacity upgrades. And you can help maximize ROI with nondisruptive, data-in-place upgrades without repurchasing existing storage.

The multiprotocol hardware architecture provides flexibility and high performance for both block and file storage needs. HPE Alletra Storage MP consists of standardized, composable building blocks — compute (node), capacity (just a bunch of flash [JBOF]), and switches — that can be configured for different software-defined storage personas and use cases. This enables you to deploy HPE GreenLake for Block Storage or HPE GreenLake for File Storage on common hardware and manage through the HPE GreenLake platform with a unified cloud experience, helping eliminate silos and complexity and improving TCO/ROI.

Run any app without compromise with a 100% data availability guarantee

It's time to forget the anxiety and disruption of unexpected downtime. HPE GreenLake for Block Storage built on HPE Alletra Storage MP is an always-on service that's built on an AI-driven, disaggregated, no single-point-of-failure platform to guarantee unrivaled 100% data availability for your mission-critical apps.[2] Meet any recovery-point objective (RPO) and recovery-time objective (RTO) strategy with transparent business continuity and automatic fail-over across multiple sites while getting simple and efficient hybrid cloud data protection for on-prem and cloud-native workloads.

And it's always fast: HPE GreenLake for Block Storage built on HPE Alletra Storage MP accelerates time to insight with extreme speed and responsiveness for your most latency-sensitive modern, traditional, and consolidated mixed workloads. Its all-active architecture and massively parallel design mean data can simultaneously access all controllers and ports. All your physical components are active, and nothing is in standby mode. This helps ensure consistent, predictable performance and ultra-low latency at scale. And with an architecture optimized for all-NVMe, HPE GreenLake for Block Storage is ideally suited for your most demanding mixed workloads.

Powering this always-on, always-fast storage is the industry's most advanced AI for infrastructure. Why is that important? Because AI-powered autonomous operations mean your organization can say goodbye to endless firefighting. With an AI-managed service, you can predict and prevent disruptions before they occur. Your admins can rely on AI-driven recommendations to take the guesswork out of managing data infrastructure, and you can help eliminate time-consuming escalations through predictive support automation and direct access to experts.
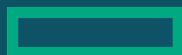
Mission-critical storage at midrange economics

Budget constraints often force midsize IT departments to compromise advanced capabilities for price, risking data availability and creating management complexity. With HPE GreenLake for Block Storage, you can help eliminate the trade-offs that require you to sacrifice mission-critical performance, availability, and scalability for price. For example, as an HPE 3PAR customer, by moving to HPE GreenLake for Block Storage built on HPE Alletra Storage MP, you get the mission-critical, active-active resilience and performance you value in your HPE 3PAR storage, but with 100% data availability,[3] better price performance, and a simple cloud management experience.

Moving to HPE GreenLake for Block Storage is easy and hassle free. HPE 3PAR storage customers can take the risk and complexity out of switching to HPE GreenLake for Block Storage with quick, nondisruptive, data migration. With HPE Peer Motion, you can move data from HPE 3PAR, HPE Primera, and HPE Alletra 9000 Storage arrays to HPE GreenLake for Block Storage built on HPE Alletra Storage MP — online, nondisruptively, and without complex planning or dependency on extra tools.

[2], [3] HPE storage substantiation

Your data, your agility, your innovation — unleashed

In the end, to fast-forward data-driven modernization, your organization must focus on eliminating the infrastructure management complexity that continues to slow you down. That's precisely what makes HPE GreenLake for Block Storage — built on HPE Alletra Storage MP — so compelling. Unique among block storage offerings, it simplifies storage management and reduces risk with an AI-driven cloud experience, disaggregated scaling, and guaranteed 100% data availability. It frees your organization to dramatically accelerate your digital transformation journey.

And keep in mind that the on-demand cloud data services of the HPE GreenLake platform don't end at block storage. A comprehensive suite of cloud data services with a unified cloud operating experience enables you to modernize data management when and where you need it — all in just a few clicks.

[4] HPE storage substantiation

Accelerate business outcomes[4]

Boost time to value

99%

operational time savings using intent-based provisioning. LOB/DB admins can self-provision storage for faster app deployments

Reduce business risk

100%

data availability guaranteed for mission-critical apps

AI-driven issue resolution

86%

of problems are automatically predicted and resolved with industry-leading AIOps

Learn more at

HPE.com/storage/blockstorageservice

Visit **HPE GreenLake**

Chat now (sales)

Hewlett Packard Enterprise