HPE Alletra Storage

HPE Alletra Block Storage for AWS

Simplify operations and innovate faster with unified management, consistent data services and seamless data mobility across hybrid cloud

HPE
GreenLake

Simplifying hybrid cloud storage

Hybrid cloud is the operating environment of choice for many enterprises today. It's easy to see why: most data is distributed across edge to cloud, and the benefits of a mix that includes public cloud are too good to pass up. But the advantages of the hybrid approach are often negated by the demands around operating and managing complex, highly diverse environments. This is particularly true when it comes to managing storage across hybrid cloud.

One common challenge with hybrid cloud storage is that inconsistent management tools and workflows between on-prem and public cloud storage can create operational silos, low visibility, and cost inefficiencies at scale. Meanwhile, limited data mobility across hybrid cloud makes it difficult to move data and workloads to where they need to be—negatively impacting business and IT agility. Additionally, public cloud's lack of enterprise-grade data services and storage efficiencies can restrict the deployment of mission-critical apps.

This is where HPE Alletra Block Storage for AWS comes in. Delivered and managed via the HPE GreenLake cloud, this new software-defined storage solution brings the advanced capabilities and simplified experience of HPE Alletra Storage MP B10000 to AWS. Now, you can experience the same enterprise-class storage data services between on-prem and public cloud, while also benefiting from seamless data mobility and unified management across hybrid cloud.

One experience—everywhere

HPE Alletra Block Storage for AWS delivers a single, consistent AI-driven experience across hybrid cloud. It simplifies management, enhances productivity, and keeps you in control wherever your apps and data are.

Unified storage management

Unified management tools enable you to manage, monitor, and protect global storage environments across your hybrid cloud data estate consistently and securely at scale, all from a single cloud console on the HPE GreenLake cloud. An intuitive software-as-a-service (SaaS)–based user experience means that everything you need to manage your fleet of data infrastructure on-premises and in the public cloud is at your fingertips—accessible from anywhere, on any device.

Simplified deployment

Deploy new HPE Alletra Block Storage instances in AWS in minutes—directly from the HPE GreenLake cloud. Simply select the name of the storage array and the subscription, choose the target AWS region and availability zone, and click "Create"—HPE Alletra Block Storage for AWS will do the rest. With just a few clicks, your new storage system is configured, deployed, and available in AWS—ready to serve data for application workloads.

Self-service provisioning

Empower your line-of-business owners and app admins to self-provision storage to accelerate app deployment—freeing up IT resources to work on strategic, higher-value initiatives. To provision a volume in AWS, simply select the desired storage tier and workload type, specify the capacity and protection policy, and let AI-driven intelligence automatically analyze your HPE storage instances in AWS and provide a recommendation. No storage expertise required, and no more guesswork.

Put your storage on autopilot with an AI-managed service

Say goodbye to endless firefighting with industry-leading AIOps for infrastructure that drives autonomous operations and helps ensure your apps are always-on and always-fast. Let AI-driven recommendations take the guesswork out of managing data infrastructure and help eliminate time-consuming and frustrating escalations through predictive support automation and direct access to experts.

A wealth of cloud services on one platform

Keep in mind that the cloud data services on the HPE GreenLake cloud don't end at block storage. A comprehensive suite of cloud services enables you to modernize and simplify your hybrid cloud data management where and when you need it. Gain fast and easy access to the largest available array of storage services in a single platform—spanning block, file, private cloud, storage fabric management, backup and recovery, and disaster recovery—all delivered with an intuitive cloud experience everywhere.

Seamless data mobility

HPE Alletra Block Storage for AWS gives you the freedom to move data and migrate apps everywhere as your business requirements evolve. This seamless data mobility across hybrid cloud helps you maximize agility, enhance data protection, and boost innovation.

Bridge the divide between on-premises and cloud

You need the ability to easily move data across hybrid cloud as cost, performance, or regulatory needs change. With HPE Alletra Block Storage for AWS you can effortlessly, seamlessly, and rapidly move data between HPE Storage on-premises and in AWS, as well as between different regions in AWS. Moreover, you can strategically utilize IT resources by easily migrating virtual machine (VM) and container workloads to and from cloud without costly application refactoring and staff retraining.

Ensure simple, cost-effective disaster recovery and business continuity

HPE Alletra Block Storage for AWS brings your multilayered on-premises data protection and business continuity capabilities to AWS with enterprise-grade snapshots, replication, and backups. Now, you can protect your on-premises and cloud-native workloads with native replication to AWS for disaster recovery (DR)—mitigating the need for secondary DR sites. For the ultimate level of data protection and business continuity, you can replicate data between availability zones and regions in AWS.

Help maximize developer agility and innovation

With HPE Alletra Block Storage for AWS, you can accelerate development cycles and expand your testing capabilities. It lets you develop software on-premises or in the cloud and deploy to either target quickly using an agile and efficient DevTest environment. You can leverage space-efficient snapshots and clones to quickly spin up a DevTest sandbox on-premises or in AWS. This enables you to test new apps, patches, and updates instantly without impacting the production environment and without having to purchase and deploy new hardware on-prem.

HPE Alletra Block Storage for AWS: Use Cases

- **Disaster recovery**—Replicate on-premises and cloud-based for disaster recovery. Recover from on-premises and multicloud environments

- **Business continuity**—Help ensure critical applications and data are available and automatically protected across cloud availability zones

- **Efficient dev test**—Empower your DevOps teams to develop software on-premises or in the cloud, with the ability to deploy to either target

- **Cloud migration**—Easily migrate VM and container workloads to and from the cloud without costly redesign and rearchitecture

- **Business applications**—Optimize your AWS environment for critical business applications and databases

Enterprise-class storage services wherever your apps are

HPE Alletra Block Storage for AWS helps you optimize cloud storage costs and increase application performance while enhancing resilience, scalability, and security.

Reduce your cloud storage costs

The industry-leading data reduction technologies of HPE Alletra Block Storage for AWS can help reduce your cloud storage costs on AWS. Storage is always thin-provisioned, deduped, and compressed to ensure superior efficiency for your workloads in AWS. This allows you to reduce your cloud storage TCO, optimize your cloud spend and storage usage, as well as minimize any future ingress/egress charges.

Run business-critical apps in the cloud

With HPE Alletra Storage for AWS, you get enterprise-class performance, scalability, and resiliency for the most demanding database, virtualization, and container workloads—both on-premises and in the cloud. With all the proven capabilities of enterprise on-premises block storage now available in AWS, you can run any block-based workload in the cloud with confidence.

Maintain security and compliance across hybrid cloud

Strengthen your defenses with integrated, native security across your entire IT estate. HPE Alletra Block Storage for AWS helps accelerate Zero Trust adoption with role-based access control, single sign-on functionality, encryption, and federated identity control for its features and capabilities.

It's time for storage that is hybrid by design

Hybrid cloud storage can give you unprecedented flexibility, speed, agility, and cost savings, but not if it's disjointed and bogged down with complexity and inefficiencies. With HPE Alletra Block Storage for AWS, you get storage that is hybrid by design. It unifies your on-premises and cloud environments to create a single cloud experience, consistent data services, and seamless data mobility. The result? Your organization can improve efficiency, simplify operations, and innovate faster.

Learn more at

HPE.com/HPE-Alletra-Storage-MP/B10000

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