Overview

HPE GreenLake Block Storage for AWS

HPE GreenLake Block Storage for AWS is a new software-defined storage solution that extends the enterprise-class capabilities of HPE GreenLake for Block Storage with Alletra MP to Amazon Web Services (AWS). Delivered and managed via the HPE GreenLake platform, it lets you simplify operations and innovate faster with unified management, consistent data services and seamless data mobility across hybrid cloud.
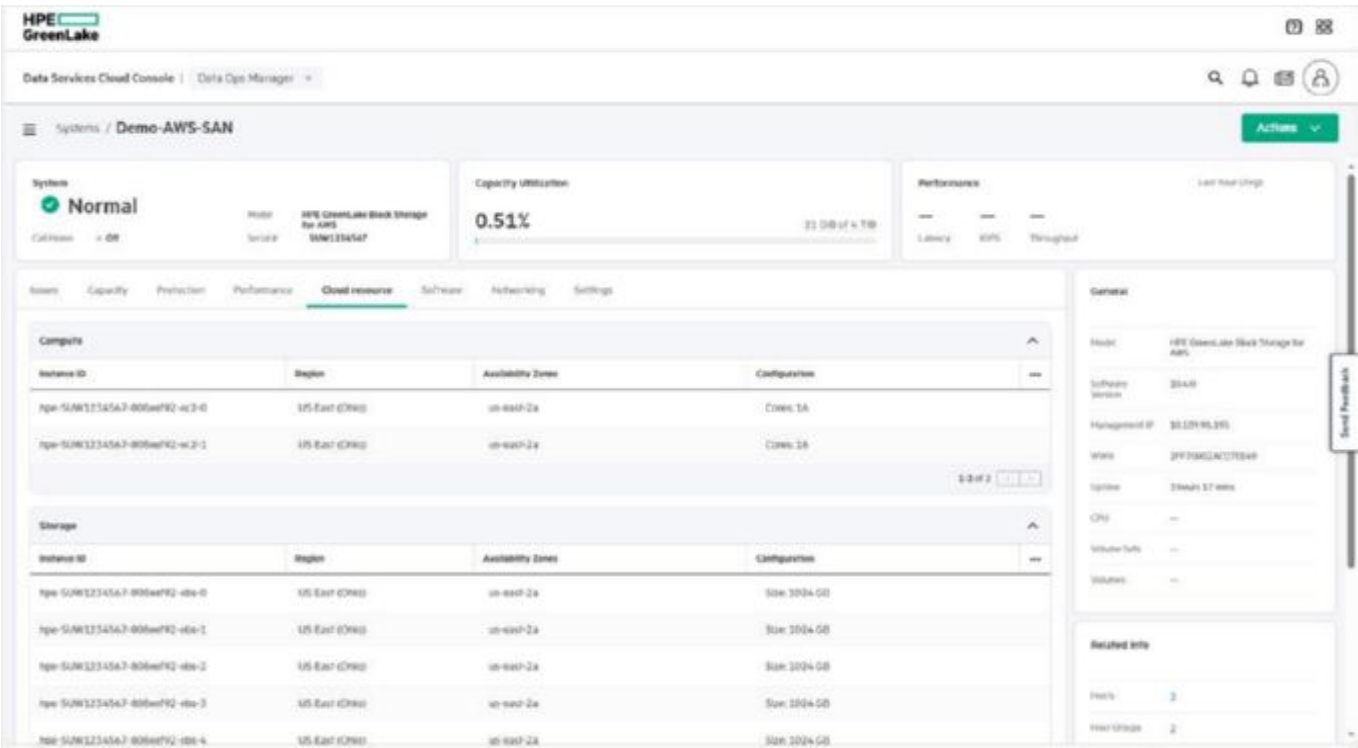
HPE GreenLake Data services

What is new

- **One experience - everywhere:** HPE GreenLake Block Storage for AWS delivers one consistent AI-driven experience across hybrid cloud. It simplifies management, enhances productivity, and keeps you in control wherever your apps and data are located.
- **Seamless data mobility:** HPE GreenLake Block Storage for AWS gives you the freedom to move data and migrate apps everywhere-as business requirements evolve. This seamless data mobility across hybrid cloud lets you help maximize agility, enhance data protection, and boost innovation.
- **Enterprise-class storage services wherever your apps are:** HPE GreenLake Block Storage for AWS helps you optimize cloud storage costs and increase application performance while enhancing resilience, scalability, and security.

Overview

Hardware

- HPE GreenLake Block Storage for AWS is powered by the Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Elastic Block Storage (Amazon EBS) services.

Unify your on-premises and cloud environments with one cloud experience

- **Unified storage management:** Manage, monitor, and protect global storage environments across your hybrid cloud data estate-consistently and securely at scale-from a single cloud console on the HPE GreenLake platform. An intuitive software-as-a-service (SaaS)-based user experience means everything you need to manage your fleet of data infrastructure on-prem and in the public cloud is at your fingertips - accessible from anywhere, on any device.
- **Simplified deployment:** Deploy new HPE GreenLake Block Storage instances in AWS in minutes-directly from the HPE GreenLake platform. Simply select the name of the storage array and the subscription, choose the target AWS Region and Availability Zone, and click create-HPE GreenLake for Block Storage will do the rest. In 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. No storage expertise required, and no more guesswork.
- **A wealth of cloud services on one platform:** Get fast and easy access to the largest 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.

Move data where it needs to be with seamless data mobility

- **Bridge the divide between on-premises and cloud:** Easily move data across hybrid cloud as cost, performance, or regulatory needs change. With HPE GreenLake Block Storage for AWS you can effortlessly, seamlessly, and rapidly move data between HPE Storage on-prem and in AWS, as well as between different regions in AWS. Moreover, you can utilize IT resources strategically by easily migrating virtual machine (VM) and container workloads to and from cloud without costly application refactoring and staff retraining.
- **Simple, cost-effective DR and business continuity:** Extend your multilayered on-prem data protection and business continuity capabilities to AWS with enterprise-grade snapshots, replication, and backups. Now, you can protect your on-prem and cloud-native workloads with native replication to AWS for disaster recovery (DR)-delivering near-zero RTOs and RPOs and mitigating the need for secondary DR sites. For the ultimate level of data protection and business continuity, you can replicate data between AWS Regions and Availability Zones, and even across different clouds.
- **Help maximize developer agility and innovation:** With HPE GreenLake 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 faster using an agile and efficient DevTest environment. You can leverage space-efficient snapshots and clones to quickly spin up a DevTest sandbox on-prem 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.

Extend the proven capabilities of on-prem block storage to public cloud.

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

Standard Features

- **Run business-critical apps in the cloud:** With HPE GreenLake Block Storage for AWS, you get enterprise-class performance, scalability, and resiliency for the most demanding database, virtualization, and container workloads-both on prem and in the cloud. With all the proven capabilities of enterprise on-premises block storage now available in the public cloud, 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 GreenLake Block Storage for AWS helps accelerate zero trust adoption with role-based access control, single sign-on, encryption, and federated identity control for its features and capabilities.

HPE GreenLake Block Storage for AWS	
	15TB Raw
Controller	2x Amazon EC2 instances type r5b.4xlarge with 4x boot drives of type GP3
Storage	12x EBS volumes of type IO2 Block express
Nodes per instance	2
CPUs per Node	8Cores, 16vCPUs
Memory per Node	128
iSCSI Host Ports per Node	1
Max Raw Capacity per instance	15TB/13.64TiB

The performance levels of HPE GreenLake Block Storage for AWS are dependent on the underlying AWS infrastructure components deployed.
The offering is supported on AWS regions where Amazon EC2 r5b instance and Amazon EBS IO2 block express volume storage type are available.

Host OS Support

Windows server 2022 | Red Hat® Enterprise Linux®
Host OS support varies by connectivity protocol to host. For the latest information on supported operating systems refer to Single Point of Connectivity Knowledge for HPE Storage Products (SPOCK):
http://www.hpe.com/storage/spock

Service and Support

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.
https://www.hpe.com/services/techcare

Configuration Information

Step 1: Choose Software, Support and Subscription term

HPE GreenLake Block storage for AWS is available in 1-year and 3-year subscription terms.

Subscription

Description	SKU
HPE GreenLake Blk Stg AWS /TB 1yr SW/Sup SaaS	S4H49AAE
HPE GreenLake Blk Stg AWS /TB 3yr SW/Sup SaaS	S4H50AAE

Customers also have access to an Evaluation license for 30 days. Please check with your HPE representative for more information.

HPE GreenLake Block Storage for AWS Software

Hewlett Packard Enterprise provides an extensive selection of features in HPE GreenLake Block Storage for AWS, including Remote replication between/across hybrid cloud deployments, Snapshots with virtual lock, enhanced storage efficiencies with deduplication and compression, thin provisioning etc.
HPE GreenLake for Block Storage for AWS includes a subscription for both Software and Support SaaS. This includes all-inclusive software features for the specified raw capacity and term, enabling cloud-based management of the array from the HPE Data Services Cloud Console, access to data services, and related supports.

> One (1) HPE GreenLake Block Storage for AWS Software and Support SaaS SKU must be selected per Storage solution.

Support

Choose HPE Services Tech Care to experience the new operational service for HPE products. For HPE GreenLake Block Storage for AWS, HPE Services Tech Care is available and included in the above SKU in Essential response level. Essential provides Expert response within 30mins of a critical incident.
Customers also enjoy 7x24 access to experienced technical engineers upon calling HPE for support.
https://www.hpe.com/psnow/doc/a50003571enw
The availability of the solution is dependent on the underlying AWS infrastructure components. For the current version of HPE GreenLake Block Storage for AWS, we support a single AWS Availability Zone. The Amazon Compute service Level Agreement **here** details the Instance-Level SLA.

Step 2: Choose the minimum capacity commit.

Next step is to select the minimum capacity commit required. Currently the offer is available at a minimum raw capacity commit of 15TB, with more options coming up in subsequent versions.

The SKUs available are per TB SKUs (Minimum commit of 1TB per SKU count). Add the number of SKUs which add up to the min. capacity commit value required.

Customer responsibilities

- Responsible for the connectivity to the platform, the administration, and the management of the data/objects
- Site readiness - Cloud service provider Infrastructure as a Service (IaaS)
- Volume creation and administration.
- Setting up data resilience and remote replication
- Applying recommended software updates and security patches
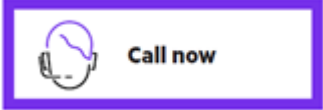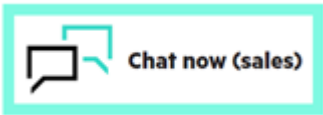
Configuration Information

- Data monitoring
- Initiate order of additional capacity beyond total capacity subscribed.
- Initiate renewal of subscription at end of term.
- Ensure the SAN composed on AWS is supported and compliant with HPE recommendations and best practices. Support Matrix are available on **SPOCK** (HPE Storage Single Point of Connectivity Knowledge).

Summary of Changes

Date	Version History	Action	Description of Change
20-May-2024	Version 1	New	New QuickSpecs

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