Hewlett Packard Enterprise

Product brief

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# DISTRIBUTED, CLOUD-SCALE DATASTORE WITH HPE EZMERAL DATA FABRIC

## Extend data fabric to create a cloud-scale datastore

**Benefits**

- Global access to a broad range of data types
- Wide choice of infrastructure from flash to disks to cloud
- Automatic multi-temperature distribution topologies
- Exabyte scale-out design supporting up to trillions of files or objects
- Self-healing operating model that assumes hardware failures are common
- Robust management console provides ease of use for administrators
- Unified management for globally distributed data
- Multi-tenant security and access control model
- Data protection and point-in-time recovery with unlimited instant snapshots
- Persistent datastore for container applications and analytics
- Disaster recovery with mirroring to remote sites

**HPE Ezmeral Data Fabric is an exabyte-scale, global datastore for diverse data types of files and containers. HPE Ezmeral Data Fabric spans multiple edge, on-premises, and cloud environments and uniquely provides in-place analytics for operationalizing insights in real-time.**

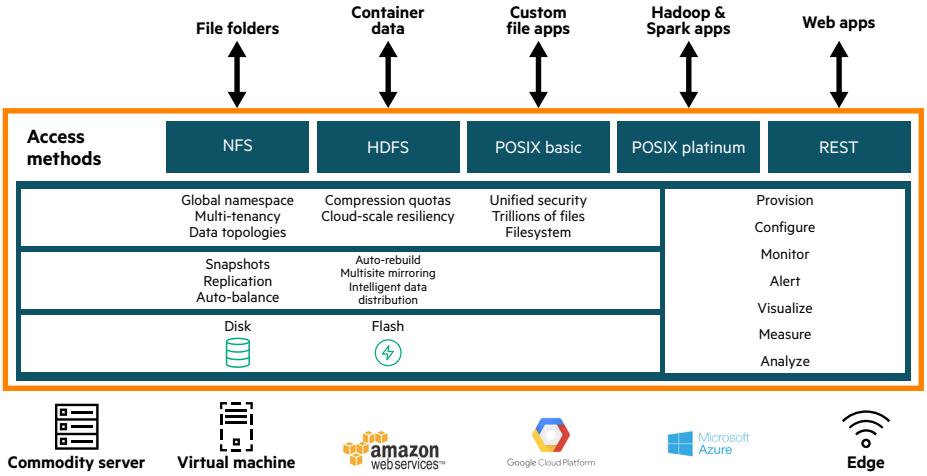
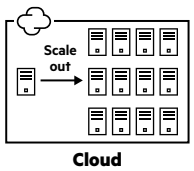
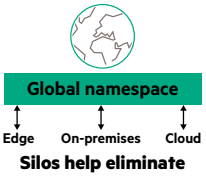



**FIGURE 1.** HPE Ezmeral Data Fabric overview




## CLOUD-SCALE DATASTORE

Data growth and variety of workloads are out-pacing the abilities of historical architectures. Changes in application data access requirements, the underlying hardware, software, data types, use cases, and cloud all which impact what is needed to be the storage and data management platform of the future. HPE Ezmeral Data Fabric is an exabyte-scale, global datastore built from the ground up to the demanding requirements.




## ONE GLOBAL NAMESPACE FOR ALL DATA

The global namespace from HPE Ezmeral Data Fabric provides a consolidated view into files that are in separate clusters across multiple edge, on-premises, and cloud environments enabling development of new location-independent applications that can move across clouds smoothly.

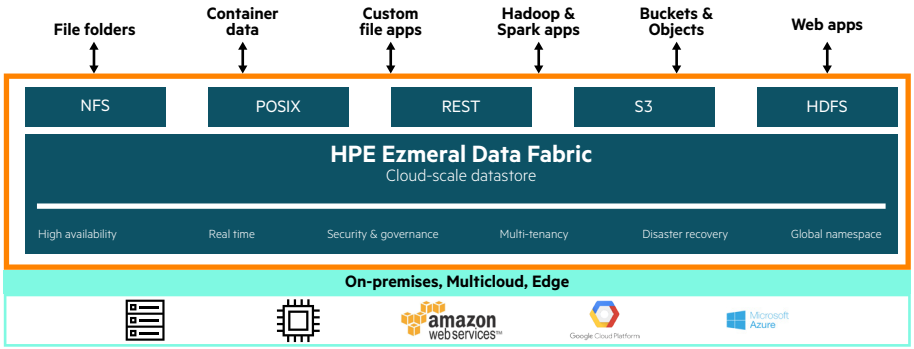
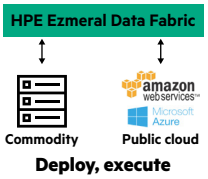



**FIGURE 2.** Cloud-scale data fabric for files and containers

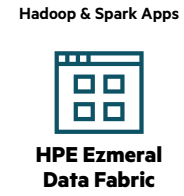

## MULTI-TEMPERATURE DATA MANAGEMENT

HPE Ezmeral Data Fabric provides a single platform for multi-tier, multi-temperature, and multicloud data management. HPE Ezmeral Data Fabric enables placing a specified volume's data in specific nodes or racks in a cluster. Volume topologies can be changed at any time with a simple command regardless of the size or location of the volume. The HPE Ezmeral Data Fabric topology movement helps ensure data is moved from one topology to another (example from hot SSD-based nodes to warm HDD-based nodes) seamlessly and reliably without impact to any running applications. This enables automated data movement across various temperatures reliably.



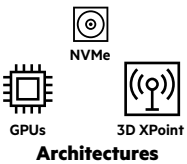

## CLOUD-GRADE RESILIENT GLOBAL DATA FABRIC

HPE Ezmeral Data Fabric is built with practically no architectural limitations to achieve scale. It can scale to thousands of hosts and clients across multiple racks. Clusters can connect to each other securely and create a global data fabric across geographically disperse locations including on-premises, at the edge, and multiple clouds. Both metadata and data are distributed and replicated, so no failure, hardware or software, will result in a loss of data or loss of access to data. Instant snapshots are atomic and consistent, preserving the data at a given point in time. Global mirroring orchestrated offers a robust and efficient way to keep the data well protected.




## INTEGRATED ANALYTICS TO OPERATIONALIZE ANY DATA

HPE Ezmeral Data Fabric combines analytics and operations into a single platform, enabling intelligent application development. It is an infrastructure-agnostic platform for intelligent applications allowing enterprises to immediately perform analytics with no data movement from both legacy sources and new unstructured data sources. Its native support for open APIs (HDFS, POSIX, and NFS) helps ensure availability of files, images, videos, objects, tables, and streams on one platform.




## BUILT FOR THE WORLD OF GPUS AND NVME

HPE Ezmeral Data Fabric cloud-scale datastore is built for the new demanding applications and I/O patterns that are going to be commonplace with modern processing architectures such as GPU; and modern media architectures such as NVMe and 3D XPoint. HPE Ezmeral Data Fabric is built from the ground up to utilize the extremely fast media types and provide the I/O needed for applications such as real-time IoT operations, next-generation intelligent applications, augmented reality/virtual reality-driven research and applications, as well as deep analytics.

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