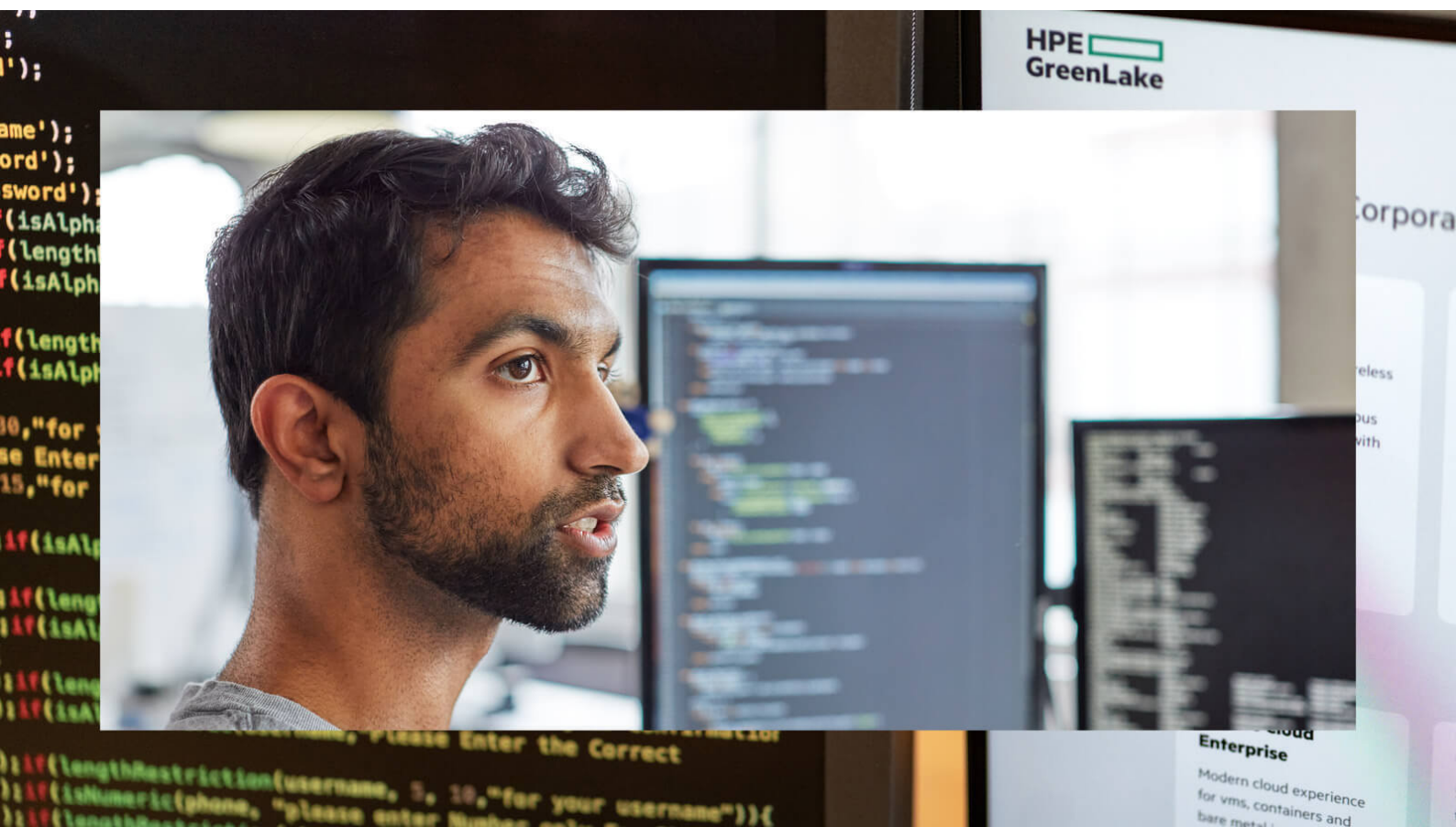# Top reasons to consider HPE Ezmeral Data Fabric Software

Unlocking insights to maintain competitive positioning or innovate with new customer services is a primary goal for analytics. These insights are key to helping your users from the executive suite to a factory floor supervisor to complete their daily tasks. Because of this dependence, it's not surprising that users continue to demand richer, higher-quality insights into business decisions.

But today's enterprise has become hybrid. It's not uncommon for data to be created and retained across an average of 14 to 20 different geographies and locations.[1] Each one is independent of the other, which means the data is siloed. Siloed data stalls time to insights and introduces latency that may reduce data's value to the business.

Hybrid cloud solutions offer the best outcomes in terms of cost, data placement, workload control, and user experience. Hybrid's upside is the flexibility to match the right deployment environment and services from dev to test to production. The downside to hybrid is as follows:

• Limited data visibility

• Increased costs from copying the same data sets across multiple locations

• Data reformatting to accommodate different software protocols

• Increased organizational risk associated with inconsistent application of security and governance across multiple services and providers

A better approach to data analytics

HPE Ezmeral Data Fabric Software delivers a better approach to data management and analytics with a single solution that spans hybrid data sources. It combines different data types into a single logical source reducing the time data teams spend discovering, cleansing, and normalizing data across hybrid deployments.

The following capabilities make HPE Ezmeral Data Fabric Software different:

Built for hybrid data deployments

HPE Ezmeral Data Fabric Software is a single solution optimized for hybrid data analytics. It is target agnostic, which means the data fabric can be deployed on-premises, in co-location, on Amazon Web Services (AWS), on Microsoft Azure, on Google Cloud Platform™ (GCP™), on HPE GreenLake, and at edge locations as shown in Figure 1. By combining structured, semi-structured, and unstructured data into a single logical source you may be able to lower costs by phasing out the number of solutions required to secure and manage hybrid data.
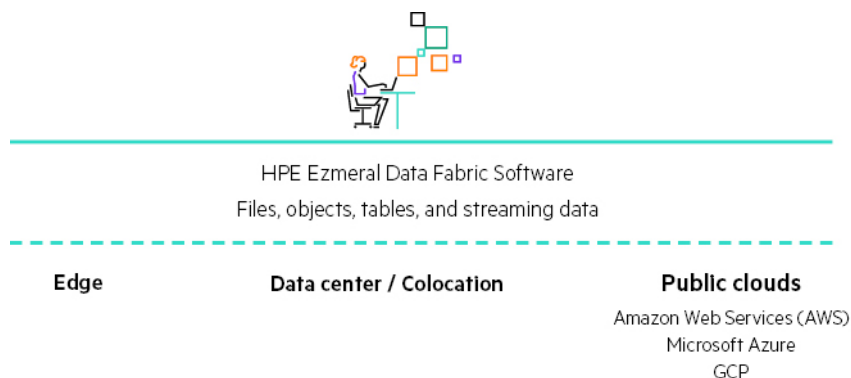

HPE Ezmeral Data Fabric Software
Files, objects, tables, and streaming data

Edge	Data center / Colocation	Public clouds
		Amazon Web Services (AWS)
		Microsoft Azure
		GCP

Figure 1. Single solution built for hybrid data analytics where data can be viewed from a single management interface

[1] "IDC FutureScape Webcast: Worldwide Future of Digital Infrastructure 2023 Predictions," IDC, 2023

Unlike multiple point solutions, a single end-to-end data analytics solution enables key benefits such as:

- Cost-efficient movement of data across multiple locations

- Ability to synchronize data sets across sites for cloud bursting and edge-to-cloud use cases

- Lower cloud costs, latency, and performance issues

Global data plane

The native global data plane spans deployed hybrid locations to aggregate files, objects, tables, and streaming data into a single logical source that enables direct data access. The secret sauce to enterprise-wide capabilities comes from the native global namespace and security system, which work together to help ensure users have authorized access to the data sets they need for each project.

Global namespace

The global namespace combines multiple data types into a logical structure where physical servers, network shares, private and public cloud instances, and edge locations are part of a single access point known as a global namespace. As shown in Figure 2, the security management system works in tandem with the namespace to help ensure authorized users can view and directly access data regardless of their location. This means that a user can be thousands of miles away from the data but access it as simply as clicking an entry in the user's directory structure.
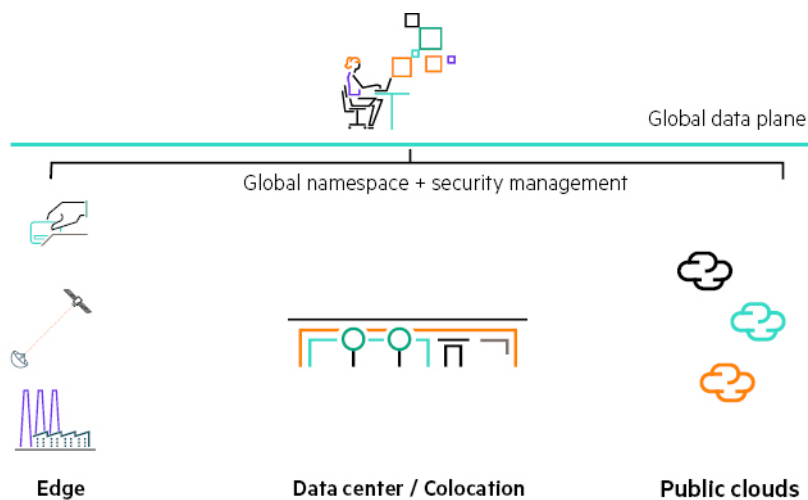

Figure 2. Global data plane unifies different data types into a single source of data

Hundreds of data fabrics can reside in a single namespace as well as across multiple namespaces. Communication across data fabrics is established at configuration.

Benefits of the global data plane:

- Enables at-a-glance visibility and direct access to data distributed across multiple fabrics

- Federated view of enterprise data sources deepens team knowledge, collaboration, and data quality across multiple use cases

- Data plane plus built-in security reduces operational risk by helping assure data can be securely shared across the organization as well as with partners

- Single pane of glass across the data plane streamlines setup, configuration, security, high availability, and management

Simplified data management

Data management complexity opens any enterprise to increased storage costs, the inability to efficiently scale as data volumes grow, and the need to reformat data before it can be processed. HPE Ezmeral Data Fabric Software streamlines data analytics by simplifying the overhead associated with hybrid data. As shown in Figure 3, one example is the support of multiple industry-standard protocols that allows data to be written in one format and read by another. For example, write data in S3 and read as a file. Other examples include:

• A trusted data source that is free of duplicates

• Reducing storage costs by eliminating the need to copy the same data into multiple locations

• Accelerating time to insights combining files, objects streams and table data into a single data plane allowing multiple apps to read in another format

• Advanced features that help assure conformity to geo-fencing, end-to-end encryption, and compliance with industry and government regulations
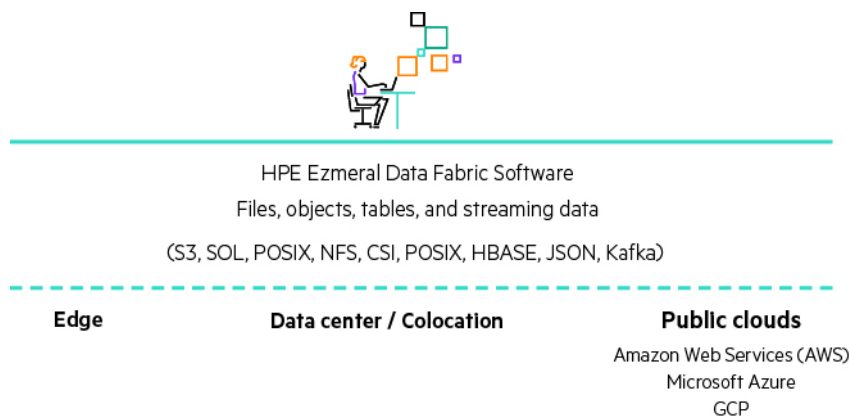

HPE Ezmeral Data Fabric Software
Files, objects, tables, and streaming data
(S3, SOL, POSIX, NFS, CSI, POSIX, HBASE, JSON, Kafka)

Edge	Data center / Colocation	Public clouds
		Amazon Web Services (AWS)
		Microsoft Azure
		GCP

Figure 3. Multiformat support allows the same data sets to be written in their native format and read by another protocol

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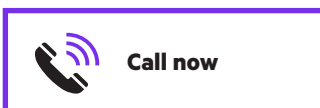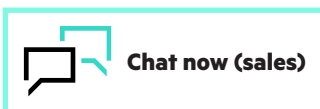
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