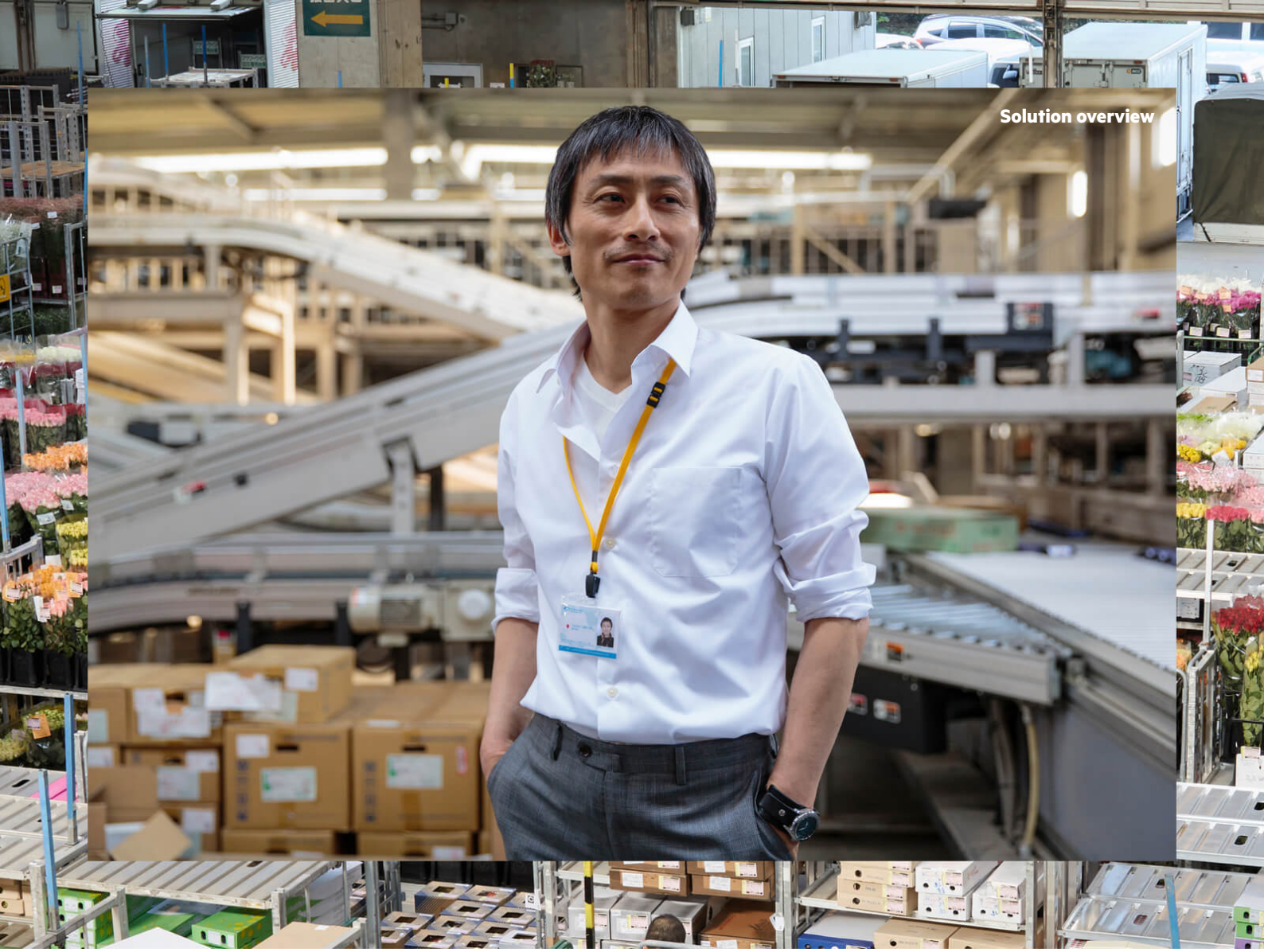

Solution overview

Accelerate discovery of key insights

HPE Ezmeral Data Fabric

HPE GreenLake

Businesses collect massive amounts of data across multiple channels. When combined with analytics, this data can deliver a deep understanding of your business, customers, and potential new market opportunities. But there's a problem. Because you have multiple data sources, the data from each of these sources look different. Resolving these differences slows down the time to insights because traditional analytic tools handle only a subset of data types, which means you could miss potential opportunities.

Fixing this problem requires a new approach to both data and analytics. One that unifies data types across all sources and then processes it in real-time to accelerate time to insights. At a very basic level, this is what data fabric technology was designed to do.

HPE Ezmeral Data Fabric

Designed to support your analytics and data science initiatives, HPE Ezmeral Data Fabric is a fully integrated data and analytics platform. It supports a wide variety of data types and formats reducing the time-consuming task of negotiating access to geographic data silos. Broad support for industry-standard application programming interfaces (APIs) enables you to move transformation projects forward by combining the data from Apache Spark, existing data lakes, data warehouses, or Hadoop systems. It offers you freedom of choice to deploy on your infrastructure or HPE GreenLake managed infrastructure.

"... Pros of Ezmeral are: Easy integration with other environments, consistent data storage performance, fast machine learning and AI project deployment, fast and secure data transfer for mobile application, segregation of duties well defined, High performance ETL processing and long term cost effective[1]"

– Lead Data Scientist & Data Analytics Solution Architect

Why HPE Ezmeral Data Fabric?

There are several capabilities that set HPE Ezmeral Data Fabric apart from the competition.

Integrated data and analytics platform—It aggregates files, objects, NoSQL databases, and streams into a logical data backbone that spans hybrid and multicloud platforms. Unifying data simplifies data access patterns, processing, indexing, and surfacing of data and insights to end users, apps, monitoring systems, and alerting dashboards without transformational preprocessing or copying of data. The built-in file system automatically scales to thousands of nodes and trillions of records without the complexity and cost of traditional database architectures.

Unified view and access to data—Regardless of where the user or data is located, a unified view and data access point simplifies data management and reduces the overhead necessary to access hybrid and multicloud data. The built-in security system integrates with existing Identity Access Management (IAM) solutions and when combined with the global namespace reduces organizational risk and cost related to manually integrating every user, app, and tool.

An ecosystem of tools—Data creation is happening across diverse environments, which means that organizations need multiple tools to uncover insights. In response, open-source solutions have become the preferred tool of choice.

A curated ecosystem of open-source tools provides engineers and scientists with a popular toolset such as Apache NiFi, Ranger, Kafka, Spark, Hive, and Drill. These tools can be layered directly onto the data fabric to ingest and integrate data from mainframe or analog devices, enable fine-grained security and access controls for Apache Hadoop and Hive systems, and process the data in real-time right where it was created.

[1] Gartner Peer Insights

> **"HPE Ezmeral Data Fabric delivers performance and productivity allowing us to overachieve to our clients' SLAs. Data management is faster than ever, models build 75% faster, and we can handle more types of data and modeling algorithms than ever before."**
>
> – **Bill Adams,** SVP Database Development & Technology, Alliant

Data intelligence—From factory managers scheduling maintenance to engineers developing a new financial service, every user across all organizations is relying on high-quality data to complete their daily tasks. But as data is shared or moved across different apps, it becomes distorted, changes shape, and loses business context. A data intelligence system can bring it back into focus.

Working together, HPE and BigID are delivering the intelligence your business needs by classifying, cataloging, and providing intelligence on what the data means to your business and who's accountable. This type of intelligence enables engineers and scientists to quickly pinpoint the exact data set their project needs or identify compliance problems, such as unprotected Microsoft SharePoint sites.

As data sources and dependence on analytics and artificial intelligence (AI) continue to grow, organizations are looking for a technology that can accelerate the discovery of key insights. HPE Ezmeral Data Fabric simplifies the steps to acquire, store, process, index, and surface data across multiple clouds, edge, and data centers. By unifying data for analytics, your business can accelerate innovation to stay ahead of the competition.

Resources

Video: Data fabrics build trust for unified analytics

Technical white paper: HPE Ezmeral Data Fabric

Learn more at

hpe.com/datafabric

Hewlett Packard Enterprise

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