**HPE GreenLake**

# HPE Ezmeral Unified Analytics Software

**Unlock data and insights faster from edge to cloud with a fully managed, open-source software-as-a-service (SaaS) data analytics solution providing secure, enterprise-supported versions of the most popular open-source analytics tools to develop and deploy applications across hybrid environments.**

Enterprises today operate in hybrid cloud environments, with data distributed among data centers, business edges, and public clouds, making analytics from edge to cloud a necessity. Being able to quickly develop and deploy data and analytics applications across hybrid environments is critical to driving business insights, to innovate, create new experiences for their customers, or expand revenue by creating new products and services.

As such, the ability to connect to data and process analytics across hybrid environments is critical.

## Challenges to implementing data analytics

The public cloud is one option for resolving this problem because it's scalable, it spins up quickly, and has low initial costs. But there are still challenges, such as vendor lock-in, unpredictable costs, it's not open or extensible across the clouds and on-premises, and it's not readily hybrid or multicloud.

DIY open-source software (OSS) provides a better alternative, because it offers low costs; it avoids vendor lock-in; and it has ongoing, rapid innovation and a wide array of evergreen tools. However, OSS can be hard to operationalize due to frameworks not being supported by enterprise IT and it's hard to standardize due to the large variety. There's also no enterprise security or enterprise support for applications, so users must rely on the open-source community for support, managing upgrades and maintaining interoperability with other open-source tools. OSS also requires specialized skill sets to implement in a production environment.
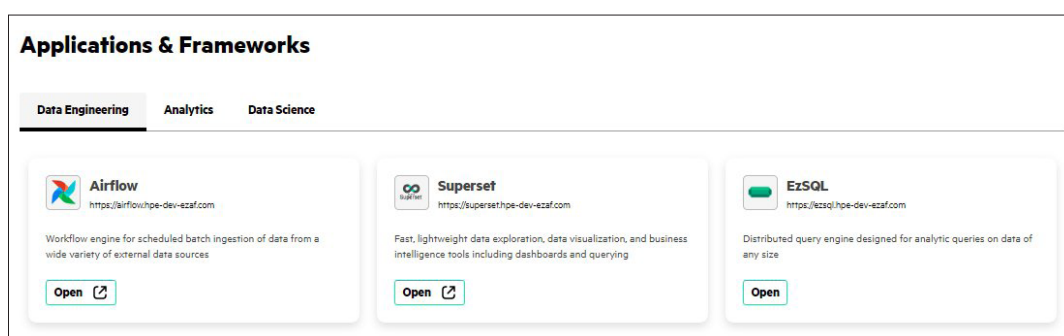
In addition, data engineers, data scientists, and data analysts all have different tools they need to perform their jobs. Data engineers automate pipelines to extract, load, and cleanse the data. Data analysts transform data, run ad hoc queries, generate reports, and build charts and dashboards. Data scientists iteratively build, tune, and train machine learning (ML) models. And ML engineers deploy, operationalize, and monitor ML models in production.

## Complete end-to-end software solution for data analytics

To bridge those two options and help overcome those challenges, Hewlett Packard Enterprise developed HPE Ezmeral Unified Analytics Software, a secure, fully managed, open-source SaaS solution that helps customers generate business insights faster.

HPE Ezmeral Unified Analytics Software gives customers enterprise-supported versions of the most popular open-source analytics tools to accelerate developing and deploying applications and analytic workloads across hybrid environments at enterprise scale. It lets teams connect to and access data regardless of location, and provides a consistent, collaborative environment for application developers, data engineers, business and data analysts, data scientists, ML engineers and other users. It's also hybrid by design, so it can be run on-premises, at business edges, and in public cloud environments, making it easier to be productive faster.

Figure 1 shows the HPE Ezmeral Unified Analytics Software dashboard with an example of some of the applications and frameworks that are available to users.



**Figure 1.** HPE Ezmeral Unified Analytics Software dashboard

HPE Ezmeral Unified Analytics Software supports every stage of the data analytics lifecycle, from application development to model development, training, and deployment and includes tools for data analytics, data engineering, and data science. It's also open and extensible, making it easy for users to extend with custom applications, open-source applications, or third-party independent software vendor (ISV) solutions. HPE Ezmeral Data Fabric Software is also embedded, along with other connectors, to make it easy to connect to numerous data sources.

As HPE Ezmeral Unified Analytics Software is a consumption-based SaaS offering; you only pay for what you use. Transparent spend tracking in the dashboard allows you to see how you are consuming resources, making it easy to know your spend and TCO.

Figure 2 shows the HPE Ezmeral Unified Analytics Software dashboard home page, where consumption statistics are displayed.
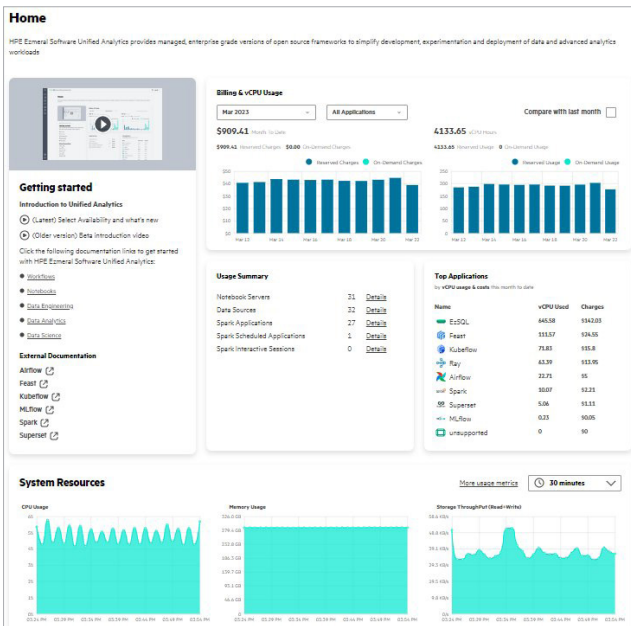


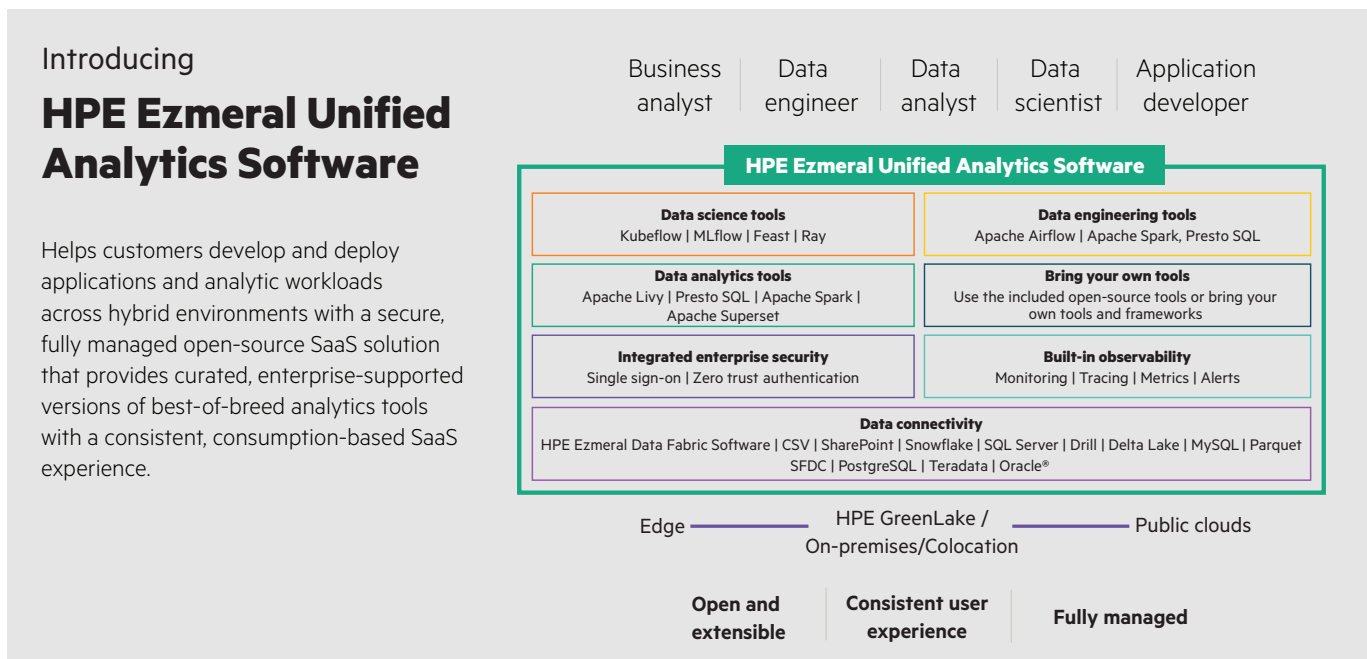**Figure 2.** HPE Ezmeral Unified Analytics Software dashboard home page



**Figure 3.** Architectural drawing of HPE Ezmeral Unified Analytics Software

# Key features

| Feature | Description |
| --- | --- |
| **Simplified data management** | Easily access data, regardless of location, through the integrated data fabric that provides access to all data types and multiple formats (files, objects, streams) while federating the data into a single global data plane, making it easy for data science teams to generate business insights faster. Additionally, the included OSS tools provide additional options to connect to distributed data. |
| **Evergreen developer tools** | The large open-source developer community provides ongoing, rapid innovation for evergreen developer tools. HPE helps ensure that the curated tools are up to date with these improvements so that developers have the latest software. |
| **Integrated security** | Designed with end-to-end, enterprise-grade security features, including zero trust authentication; single sign-on; app-level isolation; user, application, and data access controls; as well as observability, monitoring, tracking, metrics, and customizable alerts to help ensure apps are secure and functioning at their peak levels. |

# Key benefits

| Benefit | Description |
| --- | --- |
| **Increase productivity** | HPE curates, validates, integrates, and provides optional 24x7 support for best-of-breed, open-source, enterprise-supported analytics software tools, providing a complete enterprise SaaS data analytics solution. Using OSS removes the traditional IT bottlenecks, allowing data science teams to get to work faster, increase productivity, and generate business insights faster. |
| **Accelerate application development cycles** | HPE-curated best-of-breed, open-source software provides the tools application developers need to quickly and easily build, train, and deploy applications across hybrid environments. |
| **Predictable and transparent economics** | HPE Ezmeral Unified Analytics Software is a SaaS offering, so you only pay for what you use. Transparent spend tracking in the dashboard allows you to see how you are consuming resources, making it easy to know your spend and TCO. |

HPE Ezmeral Unified Analytics Software provides you with the foundation you need to unlock business insights faster from edge to cloud.

## Learn more at
HPE.com/us/en/HPE-Ezmeral-Unified-Analytics.html

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