



# HPE APOLLO 4000 SYSTEMS

Intelligent data storage servers for today's modern data-intensive workloads



## Key features

- 1. Accelerated performance:** Optimally address today's data storage-centric workloads while adapting to future requirements with a balanced system architecture and platform design.
- 2. Secure by design:** Hassle-free secure infrastructure without compromise for your data storage-centric workloads.
- 3. Seamless deployment:** Reduce time to production while lowering cost of operations with a uniquely serviceable ultra-dense form factor.
- 4. AI-driven infrastructure:** Predictive analytics and health monitoring, powered by HPE InfoSight.

## DATA IS AT THE CENTER OF EVERY BUSINESS TODAY

Data is a strategic business asset that can generate significant returns for businesses. With massive data being generated, every enterprise is striving to become a data-driven organization, able to unlock insights from this data and seek new business outcomes. Either through digital transformation or infrastructure modernization, data-intensive use cases have become critical to the business—from machine learning, advanced analytics, and modern data lakes to data protection, compliance, video surveillance, and medical imaging. These emerging use cases pose new and divergent demands on the underlying infrastructure. Supporting data-driven use cases means that IT must balance managing infrastructure economics, delivering performant applications, and managing growth of unstructured data. IT needs a new data foundation from enabling businesses to derive value from data and unlock meaningful insights.

## FOR LIMITLESS DATA POSSIBILITIES

The HPE Apollo 4000 family of intelligent data storage servers are architected to unlock the business value of data that can be realized through digital transformation and data infrastructure modernization, at any scale, with ideal economics. It combines an ultra-dense and flexible architecture optimized for data storage-intensive workloads with the ability to easily deploy and manage in a scale-out environment. The HPE Apollo 4000 Systems are built to accommodate both ends of the data-centric workload spectrum, from deep data lakes and archives to high throughput and in-place analytics and AI/ML, data-heavy hyperconverged infrastructure (HCI), and cache-intensive workloads.

## POWER YOUR DATA-INTENSIVE APPS

Lack of optimized infrastructure to store and process varieties of workloads on one platform leads to fragmentation and delayed insights. According to a [study by the Institute of Directors \(IoD\) and Barclays](#), more than 40% of organizations don't know where their most sensitive and valuable data resides in order to analyze it. Unlocking critical insights requires an infrastructure optimized for different varieties of unstructured data and related workloads. HPE Apollo 4000 Systems address these divergent data demands with the right mix of speed and capacity in a highly flexible architecture. Data-intensive applications from across the enterprise including real-time analytics, machine learning, and advanced analytics can run on the same infrastructure, accelerating time-to-insights and avoiding fragmentation. These systems are designed to ingest, process, and persist unstructured data efficiently to enable enterprises to derive insights faster.

For customers, HPE Apollo 4000 Systems drive their data-intensive apps with speed, flexibility, and better economics.

## MANAGE DATA AT ANY SCALE

Enterprises today continue to make strides to becoming more data-centric, versus application-centric, in the way that they manage their infrastructure. Increasingly, they are looking for ways to find repeatable, sustainable value from their data, and there is more pressure and urgency to do so as time goes by. Exacerbating this is the exponential growth in unstructured data, with mobile, edge and IoT contributing to the ever-present data management challenge facing most IT organizations today. Enterprises need scale-out solutions to manage the unprecedented scale and growth of unstructured data. HPE Apollo 4000 Systems are known for ultra-dense capabilities, ideal for storing and accessing billions of files and objects. Tightly coupled with leading scale-out file and object software, HPE delivers joint solutions to manage massive scale-out environments from the edge to cloud. These solutions interface directly with data-intensive applications, are pre-validated by HPE, and offered as a service, making customers' experience seamless.

## PROTECT YOUR DATA

Inadequate attention is given to securing systems and data, leaving the doors open to malicious activities and jeopardizing the value of data. With HPE Apollo 4000 Systems, customers experience end-to-end security of their systems and their data. This starts with HPE helping secure the supply chain and extends from boot-up to decommissioning of the system. All HPE systems leverage silicon-anchored security technologies built into the server hardware and firmware, protecting them from being modified unintentionally or by unauthorized personnel and resulting in quick response to malicious behavior.

In addition, enterprises benefit from strong data-at-rest encryption, intelligence, remote monitoring, and advanced key management. In the event of disk media failure, HPE also offers a defective media retention (DMR) service that allows you to retain any components of the media that may contain sensitive information. All of these capabilities help deliver a hassle-free, secure infrastructure for your data storage-intensive workloads.

### Applicable workloads and use cases

- Converged data analytics
- Software-defined file and object storage
- Converged data protection
- Backup and archive target storage
- Data-heavy hyperconverged infrastructure (HCI)
- Machine learning and AI training and inferencing
- Batch and real-time analytics
- Video surveillance and analytics
- Rich-media production and animation
- Large-scale unstructured datastore
- Medical and research imaging
- Data protection, backup, and recovery

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