

# Gain valuable insights from your Big Data with the right Compute



Density-optimized server platforms such as the **HPE Apollo 4200 Gen9 Server and HPE Apollo 4530 System** provide the most cost-effective solution for terabyte and petabyte-scale deployments with a clear pathway to future exabyte scale.

Disruptive ideas begin with a clear, thorough understanding of a complex problem that is the result of analyzing the right data and delivering it to the right business stakeholders at the right time. The ability to unlock value from the massive volume and variety of data flowing into the enterprise can be a key differentiator in today's idea economy.

Creating actionable insights from Big Data assets depends on having the right infrastructure in place to analyze and store data efficiently and cost-effectively at petabyte scale and beyond. New data sources such as social media, the Internet of Things (IoT), video, mobile apps, and such have existing storage networks bursting at the seams. As data volumes grow, so does the complexity and cost of storing and managing that data.

A new generation of data center infrastructure, featuring architectures optimized for the storage and processing needs of Big Data, can help unleash the value of enterprise data assets while also reducing the complexity and cost of managing data at scale.

## Powering Big Data for business insights

With enterprise data growing exponentially, most of today's Big Data workloads still run on traditional commodity servers, which were not designed for data-intensive processing or scalability. This creates operational complexity and inefficiency.

Enterprises need a better way to power Big Data and analytics applications. **High-performance computing** infrastructure (HPC) designed specifically for the needs of Big Data represents a new opportunity to boost analytics performance. HPC empowers companies to make faster decisions more intelligently while also driving down operating and infrastructure costs.

For insights on best practices for powering Big Data, download **Transforming Big Data into Profitable Business Insight** at [hpe.com/info/bigdatainfra](https://hpe.com/info/bigdatainfra).



HPE ProLiant Gen9 servers powered by Intel® Xeon® processors. Intel Inside®. Powerful Productivity Outside.

High-density **HPE Apollo systems** together with **Scality RING** technology easily scale to hundreds of petabytes and support millions of users with high data reliability and a lower total cost of ownership (TCO) than public cloud storage offerings.

HPE Helion Content Depot reference architecture provides a framework for an on-premise, private cloud solution.

HPE Apollo 2000 Systems deliver efficient and cost-effective high-performance computing for the most demanding computer-aided engineering workloads.

<sup>1</sup> ANSYS case study: Eicher Tractor case study shows a 40 percent reduction in design cycle time when using ANSYS solution



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## Managing data at petabyte scale

Traditional storage systems are designed for structured data at terabyte scale. Today, instead of terabytes, we're often talking about tens or even hundreds of petabytes of mostly unstructured data, and exabyte-scale is on the horizon. The cost of scaling traditional storage arrays can quickly become unaffordable.

Scale-out, file-and-object storage solutions provide an alternative for managing rapidly growing data oceans. An object-storage content depot solution delivers software-defined storage capabilities that are simple, cost-effective, highly flexible, and readily scalable, providing business users with a **public cloud** experience within their own data center.

For more information on managing data at terabyte and petabyte scale, register for the best practices guide at [hpe.com/info/objectstorage-solution](http://hpe.com/info/objectstorage-solution).

## Speed innovation with HPC and ANSYS

From concept to reality, computer modeling and simulation provide a fast and efficient information-based product development process. However, most companies that leverage this technology to drive innovation fail to realize the full benefits. The primary reason is poor compute performance.

For engineering teams that demand rendering and simulation turnaround in hours, not days or weeks, ANSYS software with HPE high-performance computing for computer-aided engineering (CAE) can help bring breakthrough product innovations to market faster, increasing profitability and customer satisfaction. Companies can reduce their design cycle time by 40 percent<sup>1</sup> with ANSYS CAE software and high-performance computing to help accelerate multiple, concurrent, complex simulations for product design prototyping. Products can be delivered faster while lowering total cost of ownership.

Learn how to speed innovation with ANSYS and HPC by registering for the best practices guide at [hpe.com/info/fastinnovation](http://hpe.com/info/fastinnovation).

## Deliver higher revenue and margins with innovative trading solutions

In today's financial-services trading environments, high-performance compute infrastructure is not optional—it's a prerequisite for survival. There is probably no industry with a more direct correlation between revenue and the speed of technology.

Trading organizations need server and workstation solutions that can consistently deliver high-quality, insight-based analytics in real time, accelerate high-frequency trading (where milliseconds in performance can translate into millions of dollars), achieve the superior computing and graphics performance required for high-volume trading, and fulfill stringent data-retention and reporting requirements.

To learn more about leveraging specialized trading solutions, register for the best-practices guide at [hpe.com/info/fastertrading](http://hpe.com/info/fastertrading).

## Power your Big Data analytics with the right compute

Hewlett Packard Enterprise stands ready to help you realize the full value of your Big Data assets with end-to-end data center solutions including consulting, servers, storage, networking, deployment, training, and support. Through proven expertise and partnerships with vendors such as Intel® and Scality, Hewlett Packard Enterprise can help you enable the right compute at the right time to unleash valuable insights from your Big Data.

## Learn more at [Data Center Modernization](#)