



Improve the economics of Big Data

HPE Elastic Platform for Analytics (EPA) with HPE ProLiant DL325 Gen10 Servers

Get better price/performance for Big Data Analytics
running on the Hortonworks Data Platform

17%

better price/performance for
Hortonworks Data Platform



Recommended configuration

Compute node: HPE DL325 Gen10
8SFF CTO Server—P04654-B21 each
containing:

- Processor: 1X HPE DL325 Gen10
7551P AMD FIO Kit—P04852-L21
- Memory: 256 GB (8 x HPE 32GB
2Rx4 PC4-2666V-R Smart Kit—
838083-B21)
- Storage: 2X HPE 240GB SATA RI
SFF SC DS SSD—877740-B21
for operating system (OS) and 2X
HPE 480GB SATA MU SFF SC DS
SSD—875470-B21 for data
- Storage controller: 1X HPE Smart
Array E208i-a SR G10 LH Ctrlr—
869079-B21
- Network adapter: 1X HPE Eth
10/25Gb 2P 640FLR-SFP28
Adptr—817749-B21
- Operating system: Red Hat® 7.4
- Hadoop Distribution: Hortonworks
HDP 2.6.5
- Support: HPE 3yr Foundation Care
24x7 Service—H7J3A3

Expect more from your data

Today’s data-driven enterprises need to store, access, and analyse massive amounts of structured and unstructured data from multiple sources. This has created the need for a new generation of data centre architecture; one where all your data is stored in a vast, ever-expanding data lake, creating a common data set for analytics and applications. Apache™ Hadoop® was born to address this need, providing an open source, standards-based data platform with the ability to store and analyse all types of data at a low cost. But many organisations encounter challenges and limitations when deploying Hadoop.

As Hadoop adoption increases, it often proliferates into multiple clusters running different workloads on a variety of technologies and Hadoop distributions, leading to challenges with data duplication and cluster sprawl. So as Hadoop use cases and capabilities expand, enterprises need to improve performance to run diverse sets of workloads and consolidate data and infrastructure with the ability to scale across a common, elastic, shared, and flexible infrastructure.

**Versatility and agility for
modern data centres**

The HPE EPA with **HPE ProLiant DL325** Gen10 servers, powered by AMD EPYC™ processors and the Hortonworks Data Platform (HDP) distribution of Hadoop, provides a scalable multi-tenant platform.

**HPE EPA: Compute- and storage-centric
nodes for asymmetrical analytics
processing**

HPE EPA is a modular foundation for deploying Hadoop and other Big Data workloads. It addresses the common challenges many enterprises face with Hadoop, by providing a flexible, scalable, enterprise-grade foundation that optimises Hadoop performance capabilities. This makes the HPE EPA the premier modular infrastructure foundation to accelerate business insights, enabling you to rapidly deploy, efficiently scale, and securely manage Big Data workloads.

Compared to dual-socket HPE ProLiant DL360 Gen10 servers with Intel® Xeon® Platinum 8153 in a similar configuration, and based on SPEC CPU2017 results. SPEC and the names SPEC CPU and SPECrate are registered trademarks of the Standard Performance Evaluation Corporation (SPEC); see spec.org. HPE pricing as of 07-08-18.



Modular building blocks of compute and storage optimised for modern workloads

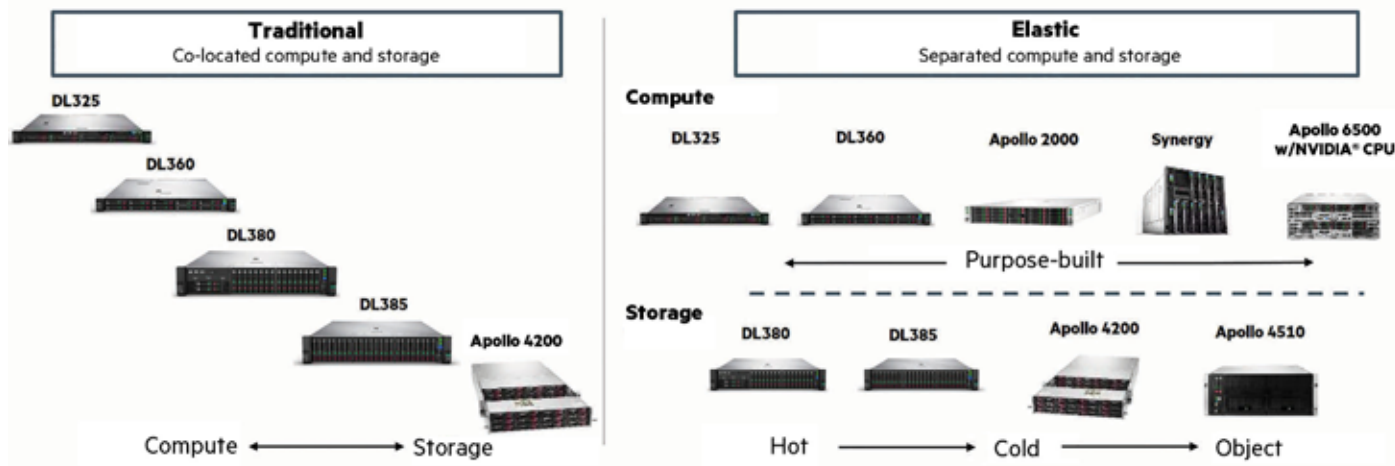
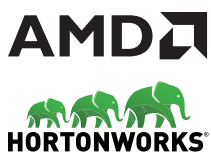


Figure 1. HPE EPA Building Blocks for Analytics

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Our solution partners



HPE ProLiant DL325 Gen10 servers: the right solution to the Big Data problem

At the core of the HPE EPA framework are infrastructure building blocks, which can be pieced together in different ways to solve unique needs. For example, HPE ProLiant DL325 Gen10 servers are ideal for the compute block. The HPE ProLiant DL325 has been designed with the security enterprises need and the flexibility required to accommodate the most demanding enterprise workloads.

The **HPE ProLiant DL325** is a 1P, 1U server that delivers a high maximum core count and large memory footprint. With up to 32 cores and 64 threads, it delivers higher parallelism for analytics workloads. It also offers up to 16 DIMMs, or 2 TB memory capacity and support for up to 10 NVMe drives for faster storage access. In addition, the HPE ProLiant DL325 redefines data centre economics for Hadoop with 17% better price/performance than a similarly configured 2P server.

AMD EPYC: powering the future of data

HPE ProLiant DL325 Gen10 servers are powered by AMD EPYC 7000 Series processors. AMD EPYC transforms data centre economics with a

no-compromise single-socket solution that provides capabilities and performance previously available only in dual-socket architectures, which translates to more performance at lower cost. More importantly, the performance you're paying for is appropriate for the applications you are running.

The AMD EPYC system-on-a-chip (SoC) enables you to precisely meet today's needs, while positioning yourself for tomorrow's requirements. In fact, AMD EPYC provides the highest core count in an x86-architecture server processor, with the largest memory capacity, the most memory bandwidth and the greatest I/O density in the right ratios to help Hadoop performance reach new heights.

Don't wait another minute

Together, HPE, AMD, and Hortonworks give you powerful, cost-effective solutions to your Big Data challenges. Contact your HPE or authorised Channel Partner sales representative to learn more, today.

Learn more at hpe.com/servers/dl325



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