

Simplify secondary data and applications

Introduction

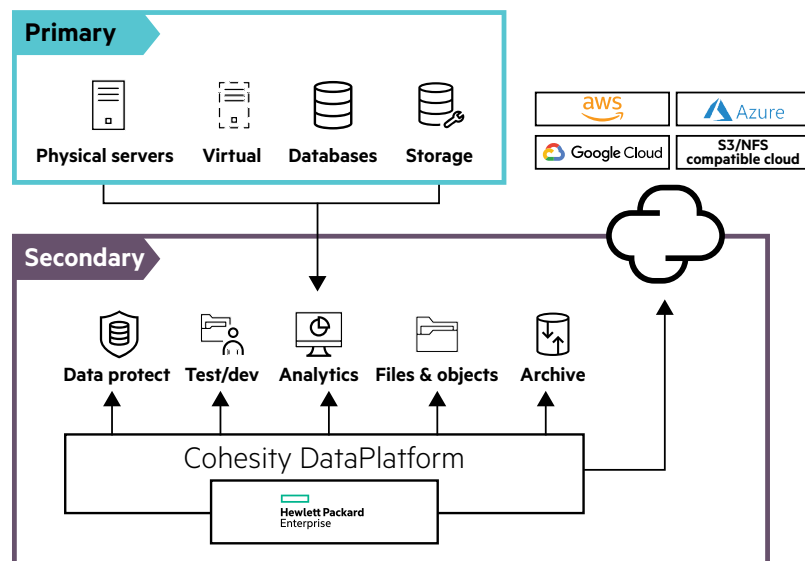
Data fuels business advantage. Yet many organizations fail to efficiently protect, manage, and harness it to gain insights. Their secondary data and applications—including backups, files, objects, test/dev, and analytics—are massively fragmented. They run across a complex patchwork of specialized point products and infrastructure silos in the data center and multiple clouds, making them difficult to protect and nearly impossible to leverage for greater value. According to IDC,¹ up to 60% of total storage capacity is dedicated to copy data. Sprawling secondary data is inefficient and costly to manage, and creates a crippling source of compliance risk.

For enterprises seeking a competitive edge, Hewlett Packard Enterprise and Cohesity offer jointly certified solutions and expertise delivering simpler, more efficient secondary data and application protection, storage, and management across clouds,

data centers, and remote/branch offices. A strong HPE and Cohesity partnership boosts data center modernization initiatives and accelerates enterprise journeys to hybrid cloud with superior solutions that put secondary data to work. They combine the web-scale simplicity and efficiency of **Cohesity software** with the power and density of industry-leading, certified **HPE Apollo** and **HPE ProLiant servers**.

Key benefits

- Integrated data protection, file and object services, test/dev, and analytics on proven HPE servers
- Flexible and nondisruptive pay-as-you-grow solution
- Improved TCO and ROI
- RPOs in minutes and near-instant RTOs
- More productive secondary data for the business



¹ **IDC Market Glance: Copy Data Management, 2Q18**, IDC, 2018

Figure 1. Simplified secondary data and applications with Cohesity on HPE servers

Solution brief



Figure 2: HPE ProLiant DL380 Gen10



Figure 3: HPE Apollo r2200/HPE ProLiant XL170r Gen10 server



Figure 4: HPE Apollo 4510 Gen10

Cohesity software is integrated into HPE global supply chain processes and systems. This enables customers to help minimize deployment risk, complexity, and cost by purchasing complete and jointly validated HPE and Cohesity secondary data and apps solutions directly from HPE and its channel partners.

Trusted partners, proven solutions

Cohesity hyperconverged software running on HPE ProLiant and HPE Apollo servers with the optional support of advisory, professional, operational, and financing services from HPE Pointnext Services consolidates secondary data and applications. This consolidation includes target storage, backup, replication, disaster recovery (DR), files, objects, test/dev copies, and analytics from core to cloud and edge on a single platform.

Simple, secure, and efficient secondary data and applications platform

- Web-scale, pay-as-you-grow platform for nondisruptive performance and capacity expansion
- Built-in security including data segmentation, encryption, immutable snapshots, unlimited zero-cost clones, secure multitenancy, and role-based access control
- Integrated data protection without separate backup software, target storage, dedupe appliances, and cloud gateways

Built for cloud to help optimize investments

- Unified management with one GUI and policy-based automation

- Seamless extension to cloud including Amazon Web Services, Microsoft Azure, Google™ Cloud Platform, or **Cohesity Powered** service providers

- Streamlined data footprint with highly efficient global, in-line, variable-length, sliding-window deduplication and compression

More productive data for the business

- Unify file and object stores for improved TCO and ROI with multiprotocol access to S3 volumes
- Accelerate application development with zero-cost clones for test/dev on-premises or in multiclouds
- Gain business insights using automated global indexing, Google-like search, and in-place analytics

HPE servers certified for Cohesity software

HPE and Cohesity have worked closely together to certify HPE ProLiant and HPE Apollo server configurations to run Cohesity software. Both rack-optimized HPE ProLiant and rack-scale HPE Apollo servers integrate Cohesity software for better protected, more productive secondary data and applications.

Table 1. Cohesity certified HPE servers

Specification	XL170r Gen10 24TB (R0R04A)	XL170r Gen10 36TB (R0R05A)	DL380 Gen10 48TB (R0Q30A)	DL380 Gen10 96TB (R0Q31A)	XL450r Gen10 200TB (R3R73A)	XL450r Gen10 400TB (R3R74A)	XL450r Gen10 700TB (R3R75A)
Raw Storage Capacity	24 TB	36 TB	48 TB	96 TB	200 TB	400 TB	700 TB
SSDs	1 x 1.6 TB NVMe MU SSD (data), 2 x 240 GB SATA 6G MU M.2 2280 SSDs (boot)	1 x 1.6 TB NVMe MU SSD (data), 2 x 240 GB SATA 6G MU M.2 2280 SSDs (boot)	2 x 1.6 TB NVMe MU SSD	2 x 3.2 TB NVMe MU SSD	8 x 1.6 TB 12G SAS MU SSDs (data), 2 x 400 GB NVMe MU M.2 22110 SSDs (boot)	8 x 1.6 TB 12G SAS MU SSDs (data), 2 x 400 GB NVMe MU M.2 22110 SSDs (boot)	8 x 1.6 TB 12G SAS MU SSDs (data), 2 x 400 GB NVMe MU M.2 22110 SSDs (boot)
HDDs	3 x 8 TB 6G SATA 7.2K LFF HDDs	3 x 12 TB 6G SATA 7.2K LFF HDDs	12 x 4 TB 12G SAS 7.2K LFF HDD	12 x 8 TB 12G SAS 7.2K LFF HDD	25 x 8 TB 12G SAS 7.2K LFF HDDs	50 x 8 TB 12G SAS 7.2K LFF HDDs	50 x 14 TB 12G SAS 7.2K LFF HDDs
CPU	2 x Intel® Silver 4108 (1.8 GHz, 8-core)	2 x Intel Silver 4108 (1.8 GHz, 8-core)	2 x Intel® Xeon®-Gold 6143 (2.8 GHz, 16-core)	2 x Intel Xeon-Gold 6143 (2.8 GHz, 16-core)	2 x Intel Xeon-Gold 6140 (2.3 GHz/18-core/140W)	2 x Intel Xeon-Gold 6140 (2.3 GHz/18-core/140W)	2 x Intel Xeon-Gold 6140 (2.3 GHz/18-core/140W)
Memory	64 GB	64 GB	128 GB	128 GB	256 GB	256 GB	256 GB
Networking Ports	2 x 1 Gb Base-T and 2 x 10 Gb SFP+ or 2 x 10 Gb Base-T	2 x 1 Gb Base-T and 2 x 10 Gb SFP+ or 2 x 10 Gb Base-T	2/4 x 10 Gb SFP+ or 4 x 10 Gb Base-T	2/4 x 10 Gb SFP+ or 4 x 10 Gb Base-T	4 x 10 Gb Base-T and 2 x 10 Gb SFP+; 4 x 10 Gb SFP+	4 x 10 Gb Base-T and 2 x 10 Gb SFP+; 4 x 10 Gb SFP+	4 x 10 Gb Base-T and 2 x 10 Gb SFP+; 4 x 10 Gb SFP+
Form Factor	1U half-width for XL170r Gen10, 2U for Apollo r2200 System chassis	1U half-width for XL170r Gen10, 2U for Apollo r2200 System chassis	2U	2U	ProLiant XL450 Gen10 server resides in 4U Apollo 4510 System chassis	ProLiant XL450 Gen10 server resides in 4U Apollo 4510 System chassis	ProLiant XL450 Gen10 server resides in 4U Apollo 4510 System chassis

A minimum of 3 nodes are required to form a Cohesity cluster. Beyond 3 nodes, Cohesity cluster can be scaled up on a per node basis.

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