

Hedvig



### ELASTIC

Scale-out to petabytes of data Start with as few as three nodes and scale without limit.

Add capacity when needed.

Embrace the economics of industry standard servers for storage.



### SIMPLE

Unify block, file, and object storage.

Consolidate disparate storage solutions into a single, modern platform.

Streamline and automate provisioning with the simplicity of cloud in your data center.

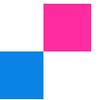


### FLEXIBLE

Adapt to fast-changing requirements.

Support any hypervisor, OS, container or cloud.

Deliver seamless high-availability across private and hybrid clouds to unlock application.



## Hedvig and HPE: Storage Fabric for the Hybrid Cloud

*Software-defined infrastructure for private and hybrid-cloud deployments*

### Hewlett Packard Enterprise

Business agility is a number one priority for today's enterprise. Keeping pace with growing digital assets in a dynamic application environment requires innovative solutions that adapt to new requirements, cost-effectively store data, and scale on-demand.

Hedvig and HPE help organizations transform the delivery of storage services with a scalable, validated software-defined infrastructure solution that takes advantage of industry standard servers to deliver elasticity, simplicity, and flexibility for single or multi-datacenter private-cloud as well as hybrid-cloud deployments.

### Scale-out distributed platform for cloud workloads

Modern business requires new levels of speed and agility to meet the demands of a dynamic, fast-changing marketplace. Hedvig and HPE enable you to rise to the challenge with a storage solution that enables you to respond quickly to business opportunity and rapidly changing data, application, and user requirements.

The Hedvig and HPE converged infrastructure solution combines the Hedvig Distributed Storage Platform with HPE workload-optimized servers to deliver a complete scale-out, software-defined storage architecture for enterprise clouds. For businesses rolling out new digital services across both private and public cloud infrastructure, Hedvig's Universal Data Plane™ architecture enables any workload to store and protect data across any location. Available as an HPE Complete bundled solution with HPE Apollo 4200 servers in 48- and 96-terabyte configurations, this pretested, validated solution offers:

- > Multi-protocol support to collapse disparate tiers of storage
- > Application-specific data services for virtual machines and containers
- > Native, multi-site replication for active data across any data center or cloud
- > The ability to start with as few as three servers and scale to thousands

To simplify ordering of software, hardware and support, customers can purchase a complete solution from HPE and the HPE partner ecosystem.





## ADVANCED STORAGE FEATURES

- › iSCSI, NFS, and object storage
- › Per-volume policy granularity
- › GUI, CLI, REST API, and
- › RPC interfaces
- › Real-time performance metrics
- › Inline global deduplication and compression
- › Encryption in-flight and at-rest
- › Thin provisioning
- › Tunable multi-site replication
- › Cross rack and site disaster recovery policies
- › Client-side SSD/PCIe caching
- › Pin-to-flash and hybrid volumes
- › Zero-impact snapshots and clones
- › Auto-balancing across nodes
- › Cluster self-healing
- › I/O sequentialization
- › VMware vCenter Plugin
- › Docker Volume Plugin
- › Kubernetes and Mesosphere integration
- › OpenStack Cinder and Swift

## BUSINESS BENEFITS

- › Lower storage TCO
- › Scale to massive capacity
- › Eliminate operational headaches
- › Lower risk of data-loss
- › Eliminate storage downtime
- › Never migrate data again
- › Deliver projects on time



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## Modernize storage with Hedvig and HPE

Together, Hedvig and HPE enable a modern, fully-programmable, distributed systems storage approach that brings simplicity, efficiency, automation and scale to store, manage, and protect an ever-growing amount of data. The solution delivers a complete scale-out, software architecture to support businesses rolling out new digital services across both private and public cloud infrastructure.

- › Application-specific data services. Not all digital services are created the same. Each service and application has its own unique data requirements. Hedvig provides the flexibility to give each application a unique policy, which can be updated and changed over time as business needs change.
- › Native, multi-site replication. Modern systems can't have single points of failure. Nor can they support complex, bolted-on replication to improve availability. A critical element of the Hedvig and HPE solution is the ability to natively replicate data across racks, sites and public clouds like AWS, Azure, and Google to ensure locality and availability.
- › Full automation and orchestration support. Enterprises can no longer suffer the human latency of manually provisioning capacity. The Hedvig and HPE solution delivers a suite of plugins and APIs that enable native integration into orchestration and automation frameworks including VMware, Docker, Kubernetes, Mesos, Microsoft, and OpenStack.

## Key Advantages

- › Simplify and automate provisioning—Spin up any number of virtual disks in just a few seconds, providing a self-service approach to users if desired.
- › Customize storage to fit your service levels—Set features on a per volume basis to best fit your protection and disaster recovery requirements.
- › Enable hyperconverged and hyperscale storage—Scale VMs and storage services together or independently.
- › Inline global deduplication—Maximize storage efficiency and network utilization with deduplication of Virtual Disks across the entire cluster.
- › Connect to any compute environment—Use with any hypervisor, application, or bare-metal system.
- › Protect data across sites and clouds—Automatically replicate data to offsite data centers and clouds for disaster avoidance and high availability.
- › Scale seamlessly with an elastic cluster—Scale capacity on-the-fly with your choice of HPE servers.
- › Eliminate forklift upgrades—Refresh hardware non-disruptively by adding new nodes and removing old nodes from the cluster.

### ABOUT HEDVIG

Built by software engineers of the world's largest distributed systems, Hedvig delivers modern storage for enterprise compute environments running at any scale. Customers such as LKAB, Scania, IAG, and GE use the Hedvig platform to transform their storage into a fundamental enabler of digital business strategies.

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