

Elastic

Scales to petabytes of data

Start with as few as two nodes and scale to thousands. Add capacity if and when needed. Embrace the economics of commodity x86 infrastructure to build your storage.



Simple

Provides block, file, and object storage

Collapse monolithic, disparate storage solutions into a single, modern platform. Streamline and automate provisioning. Bring the simplicity of public clouds to your datacenter.



Flexible

Connects to any compute, runs in any cloud

Ensure any application or OS benefits from modern storage. Avoid application and OS rewrites. Evolve to software-defined and cloud infrastructure at the pace your business demands.

Hedvig Distributed Storage Platform

Modern Storage for Modern Business

The Hedvig Distributed Storage Platform is a modern storage solution for any enterprise compute environment running at any scale. It's truly software defined, transforming commodity hardware into the most advanced storage solution available today.

One platform for any application

Traditional data storage systems no longer keep pace with the rapidly changing demands of modern applications and are difficult to manage as data grows exponentially. The Hedvig Distributed Storage Platform frees you from the limitations of sub-optimal storage arrays and incomplete software solutions, empowering you with a comprehensive suite of storage services, massive scalability, and no-compromise performance.

- < Need a more cost effective way to store your growing data volumes?
- < Need a hyperscale solution to support an elastic storage cloud?
- < Need to provision massive capacity for a big data application?
- < Need hyperconvergence to scale compute & storage in lockstep?
- < Need to modernize and simplify your storage environment?

Hedvig delivers the flexibility to quickly and easily tailor a storage solution for any workload from private clouds including Docker and OpenStack to big data deployments running Hadoop or NoSQL to more traditional server virtualization, disaster recovery, backup and archiving. Designed with true distributed systems DNA, the Hedvig storage platform gets better and smarter as it scales, defying conventional wisdom and transforming a cluster of x86 or ARM servers into a highly-flexible, cost-effective storage system.



"What we wanted in a software-defined storage solution seemed impossible. Our current vendors could not deliver a solution that fulfilled our needs for block, file, and object storage in a single platform that didn't compromise performance and feature set. Hedvig is the only solution we've found that hit all 3 critical needs."

— Arnold Juffer, CTO, Van Dijk Education



For More Information:
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The Hedvig Architecture

Hedvig Storage Service

- < Patented distributed systems engine that scales storage performance and capacity with off-the shelf x86 and ARM servers
- < Delivers all of the storage options and capabilities required for an enterprise deployment

Hedvig Storage Proxy

- < Lightweight VM or container that enables access to the Hedvig Storage Service via industry standard protocols
- < Enables client-side caching and deduplication with local SSD and PCIe flash resources for fast local reads and efficient data transfers

Hedvig APIs

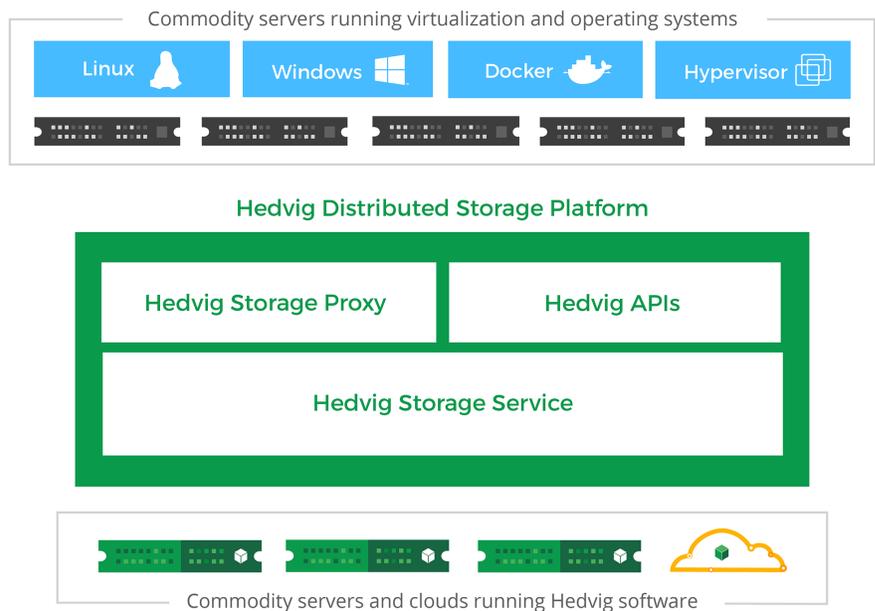
- < REST and RPC-based application programming interfaces (APIs) for developers
- < Enable access to all Hedvig storage features to automate provisioning and management with self-service portals, applications, and clouds

An elastic storage cluster with predictable performance, reliability and cost

The Hedvig Distributed Storage Platform provides all of the capabilities required to support even your most demanding workloads. Hedvig powers in-software provisioning of file, block, and object storage with the flexibility to span private and public clouds, creating an elastic, hybrid cluster that can scale to thousands of nodes.

Hedvig software virtualizes and aggregates flash and spinning disk in a server cluster or cloud, presenting it as a single, elastic storage system. Organizations can spin up any number of Virtual Disks in just a few seconds via a graphical user interface (GUI), CLI, or RESTful API.

Policy and provisioning processes that normally take hours, days, or weeks now take just a few clicks and can even be performed from mobile devices. Provision and access Virtual Disks via a graphical user interface (GUI), CLI, or REST API and fully-customize each to fit the needs of your application.



Hyperscale and Hyperconverged

The Hedvig Distributed Storage Platform supports flexible deployment of the Storage Proxy and Storage Service enabling configuration of a hyperscale system, a hyperconverged system – or both in a single storage cluster.

- < **Hyperscale:** Scale compute and storage independently
- < **Hyperconverged:** Scale compute and storage together

“Hedvig drastically simplifies our virtualized server infrastructure and enables us to really consolidate and transform our data center. It’s easier to maintain, and it contributes significantly to the promise of the software-defined data center.”

— Arnold Juffer, CTO
Van Dijk Education

“The product is easy to use and it can grow with us. We just replace or add servers as we extend capacity and update the system in the future. Hedvig’s approach is more predictable and leverages our investment in Cisco, which means a more predictable cost.”

— Christoffer Niemi, IT Architect
LKAB

“We chose Hedvig because of its versatility in delivering the best of both worlds. It provides capacity efficiency with dedupe, compression, thin provisioning, snapshots, and clones. But it also provides synchronous and asynchronous replication all in one product.”

— Bertram Rutte, CEO & Founder
Dovilo

Use Cases

The Hedvig Distributed Storage Platform delivers storage more effectively for traditional applications while accelerating your journey to modern applications.

Traditional Workloads

Server Virtualization

Hedvig’s unique architecture supports the widest breadth of hypervisors, operating systems, containers, and clouds. The result is a single, scale-out storage platform that provides a consistent, high-performance workflow for provisioning storage in large, highly virtualized environments.

Backup

Hedvig scales dynamically with commodity servers to provide an efficient platform for secondary data for backup, archiving, business continuity, and disaster recovery. Built-in hybrid cloud support and storage efficiency features streamline on and off site data protection with the ideal economics and flexibility for long-term data retention.

VDI

Hedvig delivers fine-grained control of storage services to meet the unique demands of hosted virtual desktops. The software takes advantage of the latest high-performance flash storage options in modern servers, server-side caching, the cost economics of commodity infrastructure, and integrated data efficiency features to ensure the success of your VDI project.

New Workloads

Production Clouds

Hedvig’s cloud-like storage provisioning delivers simplicity for infrastructure-as-a-service (IaaS). It plugs seamlessly into cloud orchestration and service catalog tools like OpenStack and Mesosphere, and supports container technologies like Docker. A complete set of RESTful APIs ensure seamless integration into any and all automation and orchestration frameworks.

Test/Dev Clouds

Hedvig offers unparalleled simplicity and flexibility for storage provisioning in test/dev environments. By providing point-and-click provisioning with granular virtual disk policy selection as well as instant cloning, Hedvig makes it easy to deploy storage for development followed by a seamless move to production.

Big Data

Hedvig provides the ideal storage for big data. It’s flexible storage architecture is a perfect match for the elastic nature of Hadoop and NoSQL. Tunable replication and built-in compression and deduplication means organizations can virtualize big data applications and build a “data lake” atop a single, unified data storage platform.

Hedvig Benefits

Business responsiveness

- < Provision with the speed and simplicity of the cloud
- < Deliver massive capacity, scale, and performance with no change to application infrastructure
- < Eliminate the headaches of traditional storage operations and maintenance

Reduced Risk

- < Lower risk of data-loss with distributed replication and zero-impact DR
- < Eliminate storage downtime and business interruption with cluster self-healing
- < Never be impacted by data migration demands again

Lower costs

- < Achieve performance, resilience, and reliability with commodity server hardware for predictable cost
- < Store efficiently and reduce capacity requirements by 75% or more
- < Lower TCO 60% or more

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Hedvig storage services available per Virtual Disk

Block, file & object storage	iSCSI, NFS, S3, & Swift protocols
Data replication	Create 1-6 data copies for data protection and recovery
Pin-to-flash	Designate use of all-flash resources for storing data
Hybrid disk storage	Use of a mix of flash (SSD) and hard disk (HDD)
Client-side caching	Dedupe-enabled cache for fast local read performance
Inline compression	Compress data before storing to disk
Inline global deduplication	Eliminate repetitive data to reduce storage requirements
Thin provisioning	Space-efficient dynamic storage capacity allocation
Zero-copy snapshots	Space-efficient metadata-based volume snapshots
Zero-copy clones	Space-efficient independent volume copies

Hedvig storage efficiency and resiliency features

Auto balancing	Data load balancing across nodes to optimize resource use
Auto tiering	Intelligent data placement of active data on fast media
I/O sequentialization	Random I/O aggregation for efficient data writes & reads
Self healing	Automatic repair of data from failed drives or nodes
Multi-site replication	Store copies across racks, data centers, or clouds
Wide striping	Intelligent data distribution across available cluster nodes

Environment specifications

Supported hypervisors	VMware vSphere, Microsoft Hyper-V, KVM, Xen
Supported containers	Docker
Supported processors	x86 or ARM
Maximum nodes per cluster	Unlimited
Maximum capacity per cluster	Unlimited
Maximum Virtual Disks per host	Unlimited
Maximum Virtual Disks per cluster	Unlimited
Management interface	Web-based graphical user interface (GUI) RSH/SSH command line interface (CLI) REST-based API

For a complete list of product specifications please see the [Hedvig Distributed Storage Platform data sheet](#).



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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 using the Hedvig platform transform their storage from a box where data resides to a fundamental business enabler.

