# Hedvig

## SCALE
### *Scale to petabytes of data*

Start with a few storage nodes and scale to thousands. Easily add capacity when needed. Embrace the economics of commodity x86 servers and softwaredefined storage with containers.

## BLOCK
### *Block file and object storage: no-compromise*

Deliver any type storage for your business applications. Configure persistent, block, file, and object storage. Maximum flexibility means no compromise delivery of storage to your business.

## INTEGRATION
### *Seamless integration and automation*

Ensure applications benefit from modern storage. Use Hedvig capabilities directly with containers and container orchestration. Build self-service portals, custom apps and cloud integrations with a full set of storage features.

# Modern storage for Red Hat container-enabled platforms

*Distributed, scale-out storage for
Red Hat Enterprise Linux and OpenShift*

Today's enterprises want to quickly capitalize on business opportunities and need a greater level of agility in provisioning applications and infrastructure. Container technologies enable organizations to develop and deploy apps faster and easier to deliver innovation and value to their customers.

The Hedvig Distributed Storage Platform, a software-defined storage solution designed with distributed systems DNA, is a perfect fit for modern applications running on Red Hat container-enabled platforms, helping enterprises keep pace with ever changing business requirements.

## Software-defined storage and containers

Organizations rely on a wide range of applications and need access to a full set of storage capabilities. The scale of today's web and cloud applications add additional pressure to the storage environment. The Hedvig solution provides unparalleled simplicity and flexibility for container storage helping you to meet all of your data performance, availability, and scalability requirements with a single platform.

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. The Hedvig solution is fully programmable with all of its functionality accessible via REST API. IT and DevOps have at their fingertips everything required to quickly build and deploy apps with an automated, full featured, implicitly hybrid, storage system.

Integration with container orchestration ensures seamless provisioning of block, file, and object storage. Programmable data services ensures you can accommodate individual applications and microservices with the right storage and service levels.
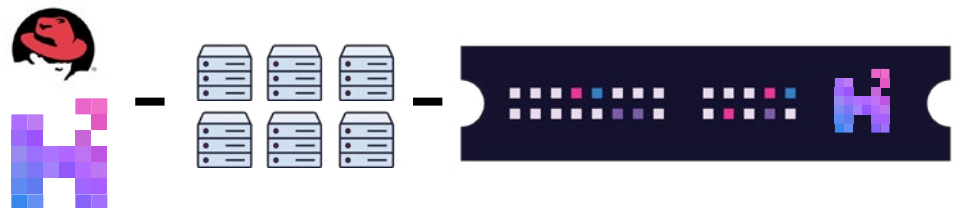
## ADVANCED STORAGE FEATURES

- iSCSI, NFS, and object protocols
- Docker Volume Plugin
- Kubernetes support
- All-flash and hybrid
- storage configurations
- Auto-balancing and tiering
- Client-side SSD/PCIe caching
- Inline deduplication and compression
- Thin provisioning
- Tunable replication
- Cross rack and site disaster recovery policies
- Data auto-balancing
- Self-healing
- Zero-impact snapshots and clones
- I/O sequentialization
- GUI, CLI, REST API, and
- RPC interfaces

## BUSINESS BENEFITS

- Respond quickly to business demands
- Lower TCO 60% or more
- Scale to massive capacity
- Eliminate operational headaches
- Lower risk of data-loss and business interruption
- Accelerate digital business

**redhat.** CERTIFIED TECHNOLOGY

# Hedvig

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## The Hedvig Distributed Storage Platform

The Hedvig Distributed Storage Platform provides a single, unified softwaredefine storage platform with the capabilities you've come to rely on from enterprise storage.

- The Hedvig Storage Service, a patented distributed systems engine installs on commodity servers to deliver all of the storage options and capabilities required for an enterprise container deployment.
- The Hedvig Storage Proxy, a lightweight storage access layer with flashoptimized caching services that runs as a guest VM, container or physical host to provide seamless access to storage resources.

The Hedvig Distributed Storage Platform provides the flexibility to scale compute and storage separately in a hyperscale configuration, as well as together in a hyperconverged solution.

## Advantages of Red Hat with Hedvig

Simplify and automate provisioning – spin up any number of persistent virtual disks in just a few seconds. Standard storage protocol support, Docker volume API support, as well as a full set of programmable REST APIs enable seamless integration for developers.

- Portable, persistent storage for containers— ensure stateful data volumes follow containers seamlessly as they migrate in the environment.Enable hyperconverged and hyperscale storage—Scale VMs and storage services together or independently.
- Integrate public and private clouds—Build a unified hybrid solution to easily migrate to or from your data center and public clouds.
- Set granular virtual disk policies—assign enterprise-class features on a per volume basis to best fit your application requirements.
- Grow seamlessly with an elastic cluster—scale storage performance and capacity on-th-fly with off-the-shelf x86 and ARM servers.
- Deliver predictable performance—massive parallelism, dedicated flash, and edge cache configurations deliver consistent IOPS performance for demanding applications.

## Why Hedvig?

Hedvig provides the flexibility to adapt to changing data, apps, and users, eliminating the headaches of traditional storage operations. The Hedvig Distributed Storage Platform transforms an x86 server cluster into a costeffective storage system, providing virtually unlimited capacity, enabling you to provision storage in seconds, and simplifying disaster recovery.

**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, and GE use the Hedvig platform to transform their storage into a fundamental enabler of digital business strategies.

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