



## Elastic, distributed storage for containers and microservices

The Hedvig Distributed Storage Platform is a modern storage solution for enterprise compute environments running at any scale. With Hedvig you can tailor an elastic, high-performance storage system built with low-cost commodity hardware to support any application, hypervisor, container, or cloud.



## Container data management for Dockerized applications

Flocker is an open source container volume manager for your Dockerized apps. It gives operations teams the tools they need to run containerized stateful services like databases in production. With Flocker, volumes follow containers as they move between different hosts in a cluster.

## Modern storage for Docker and Microservices

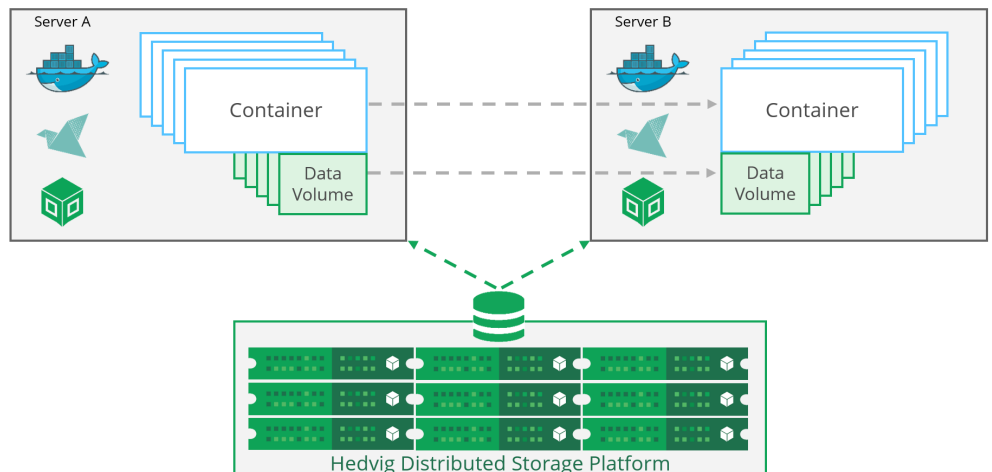
A growing number of organizations use Docker, the open-source container platform, to simplify application delivery and build microservice architectures. A recent survey showed that 65% of organizations have plans to use containers in production in the next 12 months. 70% of those surveyed want to run a database or other stateful service in containers. A key barrier to production adoption remains – how do you ensure data persistence and portability for stateful applications?

Hedvig and ClusterHQ partner to provide robust data management and storage for Docker. The Hedvig Distributed Storage Platform and Flocker by ClusterHQ enable you to run containerized stateful services like databases while preserving data in persistent data stores and ensuring volumes move with containers as they migrate between different hosts. Together, Hedvig and ClusterHQ enable broader adoption of container technology in production environments.

### Portable, persistent storage for containers

Hedvig develops the industry's most complete software-defined storage solution built to provide elastic, resilient, modern storage for Docker containers and microservices. Hedvig takes advantage of commodity server infrastructure and public cloud infrastructure to form a single, unified storage system that expands on-demand without interruption or downtime to keep pace with ever-changing business requirements.

ClusterHQ, the Container Data People, created Flocker to coordinate persistent storage for Docker containers. When a container moves to a new host, Flocker ensures its data volumes follow seamlessly. Flocker also works with tools that help you build, manage, and run distributed applications. This includes popular container managers and orchestration tools like the Docker Engine, Docker Swarm, and Docker Compose.



## The Hedvig storage driver for Flocker

The Hedvig storage driver for Flocker takes advantage of ClusterHQ's Flocker container data management to connect the Hedvig Distributed Storage Platform into Docker environments.

Together Hedvig and Flocker enable:

- **Dynamic storage provisioning:** Instantly create persistent, thinly provisioned, virtual volumes up to petabytes in size.
- **Flexible volume configuration:** Set volume features like deduplication, compression, client-side caching, and multi-site replication to meet unique application needs.
- **Automatic data migration:** Automate movement of volume ownership from source to target hosts to ensure applications always have access to data.
- **Multi-container, multi-host deployment:** Share storage volumes with application microservices across different nodes.

Modern application architectures need to scale and morph dynamically to meet fluctuating user demand. With Flocker and Hedvig you can compose an application, define storage volume characteristics to custom fit each application or microservice, and ensure data is always available – all in software.



"Our collaboration with ClusterHQ eliminates storage bottlenecks with Docker. Hedvig's distributed storage architecture is designed for containerized applications and microservices environments, and with Flocker by ClusterHQ we are able to seamlessly orchestrate storage with Docker for real production environments."

[Avinash Lakshman, CEO and founder, Hedvig](#)

"Modern applications are being built from both stateless and stateful microservices and Flocker makes it simple and practical for entire applications, including their state, to be containerized. Working with Hedvig, users can take full advantage of the portability and massive per-server density benefits inherent in containers."

[Luke Marsden, CTO and founder, ClusterHQ](#)



### Business responsiveness

Respond quickly to business needs with frictionless application deployment and streamlined infrastructure.

### Increased productivity

Speed time-to-market for DevOps teams and ensure a positive user experience with containerized apps.

### Lower costs

Achieve resilience, performance, and scale at a predictable cost with less effort.



**ClusterHQ**<sup>TM</sup>  
[www.clusterhq.com](http://www.clusterhq.com)