

Containers

Solution overview

Industry-leading DevOps automation

Use rich, data-services for Windows® and Linux® containers right from Docker tools and APIs. No storage expertise required.

Hybrid IT and multicloud ready

Move data between HPE Nimble Storage on-premises and HPE Cloud Volumes.

Simple, efficient, predictive

Use 5X to 10X less storage compared to direct attached storage. Achieve enterprise performance and availability easily.

Enterprise adoption is growing for Docker containers

Docker containers speed up time to market for applications and services, accelerate cloud strategy, and enable optimized IT. Thanks to container portability, you can package or containerize applications once, and know that they will run anywhere across a Hybrid IT environment.

Containers aren't just for ephemeral, cloud-native applications. Many organizations want to use them to develop and deploy enterprise applications faster, make these applications more portable, and reduce infrastructure and maintenance costs.

The challenge: containers make applications portable. What about the data?

Running large, stateful applications in containers brings new IT challenges that can

leave teams reluctant to containerize such workloads:

- When moving applications across environments, should the data move with them?
- How do you ensure data is protected and available when you need it?
- How do you support DevOps and meet tight SLAs for production containers without overburdening IT teams?

The solution: enterprise-class persistent storage

That's why Hewlett Packard Enterprise offers enterprise-class persistent storage that makes data as portable as the Docker containers themselves. We offer a full line of radically simple predictive flash storage solutions for DevOps and IT.

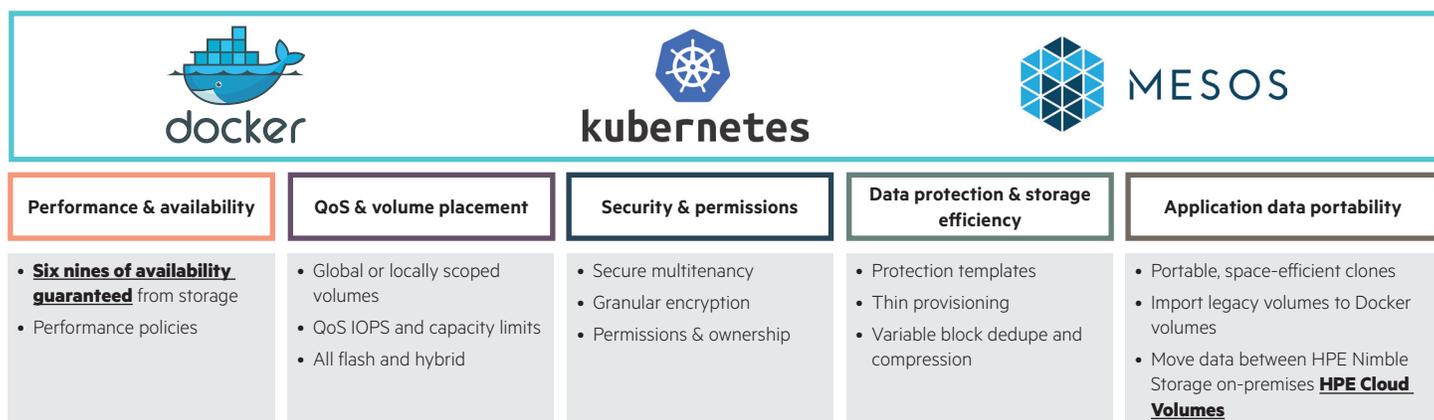


Figure 1. HPE Nimble Storage Docker Volume Plugin capabilities

Solution brief

Speed up DevOps

Self-service automation

Build, ship, and run with production data anywhere: Using the HPE Nimble Storage Docker Volume Plugin, App Dev and DevOps teams can automate data management right from the Docker command line, associated tools, and APIs. In addition, comprehensive REST APIs allow automation via DevOps tools such as Ansible and Puppet.



Figure 2. Self-service automation for Dev and Ops

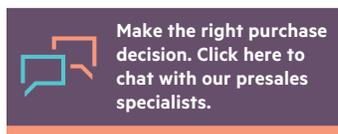
Deliver better quality software faster

With powerful automation, developers don't waste time testing with empty stubs or fake data, or waiting for IT to deliver data. Instead, they can create thousands of data copies in minutes using space-efficient, zero-copy clones to speed up development, QA, and staging. Since clones only store changed data, the added storage costs are minimal.

Learn more at hpe.com/storage/containers

¹ HPE InfoSight data gathers data from the entire HPE Nimble Storage install base.

² Based on a study of HPE Nimble Storage all-flash arrays and their data reduction capabilities. HPE Nimble Storage lets you "buy up to 80% less storage for the same amount of data."



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Build faster with flash

With HPE Nimble Storage all-flash performance, customers report that build jobs finish faster than they do on legacy storage, so there are fewer DevOps delays. With dev teams evaluating the results of their code right away, deployments are much more continuous.

Lift and shift data with applications

Whether you're working with new applications or using containers to modernize traditional applications, data and applications should go together—always.

On-board legacy application data

When containerizing traditional applications with Docker, don't forget the data. HPE Nimble Storage lets you instantly convert legacy VMware® and OpenStack® volumes to Docker volumes when containerizing existing applications.

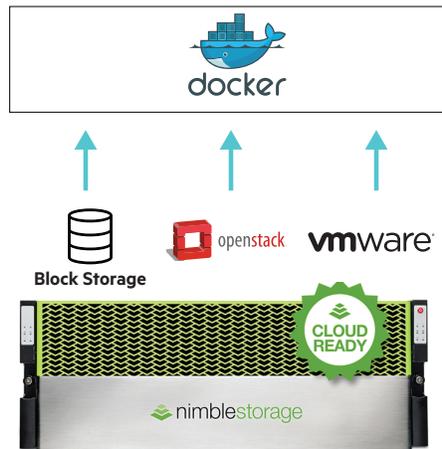


Figure 3. Import legacy volumes to Docker volumes with a single command

Multicloud on-ramp

Move data with applications between on-premises, Amazon Web Services (AWS), and Azure with HPE Cloud Volumes. As simple as native cloud storage and millions of times more durable, this enterprise-grade

multicloud storage service also offers replication to and from HPE Nimble Storage on-premises arrays.

Consistent and predictable

This single flash storage platform supports Windows and Linux containers, single or multitenant environments, on-premises infrastructure or cloud. With the entire product line running HPE Nimble Storage, you get the same flash experience across diverse infrastructure.

Simple, fast, efficient

HPE InfoSight Predictive Analytics

All HPE Nimble Storage arrays come with cloud based predictive analytics. Through HPE InfoSight, 86% of issues are automatically identified and resolved before you even notice a problem.¹

Deliver six nines of availability and consistent performance

Easily achieve consistent performance with HPE InfoSight monitoring your entire infrastructure stack. Also, the combination of HPE InfoSight with a fault-tolerant system design has achieved over six nines of measured availability across over 10,000 customers.

Less capacity consumed

You'll use 5X to 10X less capacity compared² to commodity direct attached storage. No need to store three data copies, thanks to Triple+ Parity RAID. Inline deduplication and compression reduce data even more.

Try it now

Download the Docker-certified HPE Nimble Storage Volume Plugin from

- [HPE InfoSight](#)
- [Docker store](#)

Try HPE Cloud Volumes at hpe.com/storage/cloudvolumes.

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