

**Solution overview**

**HPE Flash Storage**

The industry's only predictive all-flash array that combines the speed of flash with the power of **HPE InfoSight** predictive analytics.

**Seamless integration with VMware**

From vCenter to VVols integration, VM administrators can manage storage as just another infrastructure resource.

**HPE InfoSight Cross-Stack Analytics for VMware**

Predictive analytics extended into the vSphere platform provides latency and performance visibility across host, network, and storage layers of the stack.

**Customer success**

The Corona-Norco Unified School District modernized their infrastructure, leveraging cost-saving server virtualization to reduce physical infrastructure cost by 50% while increasing storage performance by 100%.<sup>1</sup>



“A single HPE Nimble Storage array outperformed over half of a rack of Dell EqualLogic by a factor of two. HPE Nimble Storage is now the only storage platform in our data centers.”

– Brian Troudy, director of networking and infrastructure, Corona-Norco Unified School District

**Case study showing twice the performance**

# HPE Storage Solution for VMware vSphere

## A single predictive flash platform for your entire VMware virtualized infrastructure



Figure 1. Diagnose abnormal latency with HPE InfoSight Cross-Stack Analytics for VMware

Organizations have virtualized as much of their data center servers as they can, and have gotten proficient at maximizing VM density within their hardware footprint. Today's virtualization challenges are in achieving cloud-like management, efficiency and cost, for all applications. You need to harness the latest innovations and intelligence across the infrastructure but without multiple panes-of-glass, or maintaining specialized experts.

HPE has invested in extensive integration with the VMware® environment, simplifying operations so that VM administrators can manage storage resources through the familiar VMware® vCenter™ GUI, without specialized storage expertise. HPE Storage brings the integrated simplicity, all-flash performance, and predictive analytics intelligence that makes it the single data platform of choice for virtualized enterprise data centers.

### Radical Simplicity for VMware

The HPE Storage solution for **VMware vSphere®** leads with integrated data management. HPE engineered deep integration across vCenter, VVols, VASA, VAAI, SRM, and the vRealize suite. Only HPE is on their third generation of VVols integration, and is the only VMware design partner who worked with both the earliest and current versions of VVols.

With this deep integration, VM administrators can work with the data granularity they need—provisioning, protecting, and managing at the VM rather than datastore level.

Purpose-built external storage arrays provide the processing power needed for enterprise VMware environments, freeing up compute host cycles with offload processing for snapshots, cloning, replication and space reclamation.



## Fast, consistent VM performance with all flash

The HPE Storage solution for VMware vSphere delivers enterprise-class performance of up to 3.8 million IOPS at sub-millisecond latencies. And you can count on this performance, thanks to HPE InfoSight Cross-Stack Analytics for VMware, which provides visibility from array to VM for correlated health, performance and usage trending. This feature has on-demand heat maps that pinpoint “noisy neighbor” VMs and enable rapid root cause analysis.

HPE Storage comes with on and off-box data protection features for end-to-end data availability, protection and retention that maximize uptime, reduce data loss, and help ensure rapid recovery.

## Intelligent data platform for virtualization

The HPE Storage solution for VMware vSphere is built on storage that is unique in the industry.

Predictive—HPE Storage comes with HPE InfoSight, considered “AI for the data center,” that predicts and prevents issues and eliminates the pain of support. HPE InfoSight is delivering measured availability of over 99.9999% across the installed base.

Cloud Ready—HPE Storage provides on-premises infrastructure that enables easy mobility to the public cloud through on-board replication, and capabilities such as **HPE Cloud Volumes** and HPE StoreServ Cloud Bank storage. Get the mobility and control you need to consolidate and deploy workloads across all flash, adaptive flash, converged and cloud.

Timeless—HPE Storage is a future-proofed investment with all-inclusive licensing, guaranteed availability, and flexible upgrade and payment options.

## Components of a virtual infrastructure

The solution is designed to deliver enterprise-class performance, scale and availability and is comprised of both HPE as well as key third-party technology partner products. The following components work together to deliver the benefits of the solution:

- Cloud-ready Predictive Flash Storage—either **HPE Nimble Storage** or **HPE 3PAR StoreServ Storage**
- x86 compute either **HPE Gen10 ProLiant servers** or market-leading **HPE Synergy** composable infrastructure
- Data center networking including HPE FlexFabric, Arista, and Cisco
- VMware vSphere 6.5 or 6.7 server virtualization software
- Optional data protection, cloud storage and DR from HPE, as well as from leading virtualized data protection partners such as Veeam

## Solution benefits

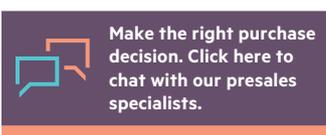
You will benefit from the HPE Storage solution for VMware vSphere in a number of ways:

- Get radically simple virtual infrastructure operations through extensive integration with VMware products
- Meet SLAs with flash-accelerated performance needed for demanding workloads like HPC, AI, VDI
- Realize high availability of over 99.9999% through predictive analytics
- Eliminate infrastructure silos with just one platform for all virtualized workloads
- 9 out of 10 issues predicted and prevented—HPE InfoSight Cross-Stack Analytics for VMware speeds IT Support troubleshooting
- Get more usable capacity for the money with superior data efficiency savings of 5X and more on either **All-Flash** or Adaptive Flash storage
- Get faster, risk-free deployments with HPE Converged Architecture and HPE ConvergedSystem pre-validated and/or pre-integrated solutions

## Get started on your journey

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