

# PROTECT YOUR DATA—WHEREVER IT RESIDES

Optimized data protection for hybrid cloud

The HPE optimized data protection for hybrid cloud solution delivers end-to-end protection and rapid recovery of your data—from the data center to the cloud

- Mitigate risk with reliable comprehensive protection of data wherever it resides—on traditional IT, private cloud, or public cloud
- Lower costs with cloud-ready long-term data retention and disaster recovery starting at just \$0.001 per GB per month<sup>1</sup>
- Accelerate performance with flash-integrated data protection
- Improve efficiency with self-service application managed protection
- Reduce complexity with one partner for all your availability, data protection, and retention needs
- Optimize business value with advice, design, implementation, and support expertise

## Reduce risk and ensure resilience for your business-critical applications and data



**23x**

Faster backup<sup>2</sup>

**15x**

Faster restore<sup>3</sup>

**20x**

Reduced storage footprint.<sup>4</sup>

### THE THREAT AND RISK OF DATA LOSS IS GROWING

In an always-connected world, critical application failures can cost your business its future. Unplanned downtime and data loss can originate from many sources, including natural disasters, network or power outages, human error, or malicious acts.

Additional risk comes from costly, inflexible legacy infrastructure with inadequate data protection and disaster recovery models.

Best practice data protection is, therefore, a continuum that must cover a wide range of scenarios. No single technology can provide the complete solution.

### OPTIMIZING DATA PROTECTION FOR HYBRID CLOUD

The shift to hybrid cloud delivery models doesn't eliminate core requirements around resiliency and risk. However, it does drive the need to rethink how you support a mix of traditional, private, and public cloud services while delivering all the protection you need—wherever you need it.

In a hybrid cloud world, you need an end-to-end solution that protects data across all consumption models and delivers zero-impact, flash-speed protection while efficiently utilizing low-cost cloud storage for long-term retention and disaster recovery and a cloud native backup storage target that enables direct backup to the cloud and restores on-premises or in the cloud.

<sup>1</sup> Assuming dedupe ratio of 20:1 and AWS (S3) standard object storage pricing of \$0.02 per GB/month

<sup>2, 3</sup> Compared to traditional backup environments

<sup>4</sup> Assuming dedupe ratio of 20:1

## Solution brief

You need a partner to help you identify, select, and implement the right solution. Hewlett Packard Enterprise can help.

## HPE OPTIMIZED DATA PROTECTION FOR HYBRID CLOUD

The HPE optimized data protection for hybrid cloud solution brings together industry-leading storage and data protection software coupled with services expertise to provide integrated end-to-end resilience and risk reduction from the data center to the cloud.

This proven and comprehensive solution covers the continuum of data protection with high availability, replication, snapshots, backup, disaster recovery, archive, and cloud services.

You can reduce the risk of data loss and meet your recovery service-level agreements (SLAs) to prevent the financial or reputational costs that can be crippling to your business.

### Flash-speed protection for hybrid cloud

Flash changes the game for hybrid cloud storage. But how can you ensure that data protection doesn't become a costly bottleneck for your flash workloads?

Get the most from your migration to flash by making data protection an application-integrated and cloud-ready function of flash storage. HPE Primera

<sup>5</sup> Assuming dedupe ratio of 20:1 and the maximum logical capacity of HPE StoreOnce 6600 of 34 PB

<sup>6</sup> Assuming dedupe ratio of 20:1 and AWS (S3) standard object storage pricing of \$0.02 per GB/Month

<sup>7</sup> The **3-2-1 rule** of best practice data protection prescribes that you should have three copies of your data, on two different media types, with one copy kept off-site.

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and HPE Nimble Storage flash-integrated data protection with HPE Recovery Manager Central and HPE StoreOnce gives application owners flash speed protection while reducing cost and complexity.

### Cloud-ready data protection for hybrid cloud

HPE Cloud Volumes Backup delivers a simple, efficient, and flexible way to store your backup data in the cloud. It's a completely cloud-native backup storage target that enables you to back up seamlessly to the cloud—directly from any storage array or backup ISV—without changing your existing data protection workflows. Backups can be restored on-premises or in the cloud.

HPE Cloud Volumes Backup helps eliminate complexity by freeing you from the day-to-day hassles and costs of backup infrastructure management while also optimizing your costs with consumption-based pricing and ultra-efficient data mobility across any hybrid cloud. It also empowers you to get more out of your backup data, enabling you to transform backup data into a business asset that accelerates development and reveals new business insights.

HPE Cloud Bank Storage for HPE StoreOnce lets you leverage the economics, agility, and flexibility of the cloud for data protection. You can natively, securely, and cost-effectively move backup data to a public, private, or hybrid cloud for simple and efficient long-term retention and reliable disaster recovery.

The solution sends, stores, and retrieves only unique data for lower TCO and is highly scalable—enabling the protection and retention of more than 100 PB<sup>5</sup> of backup data in your cloud of choice starting at one tenth of a cent per month.<sup>6</sup>

## HPE AND VEEAM— COMPREHENSIVE DATA PROTECTION FOR HYBRID CLOUD

Industry-leading Veeam software integration with HPE storage lets you create application-consistent backups from HPE storage snapshots for fast, efficient data protection.

For long-term external storage, HPE StoreOnce provides deduplication for efficient storage utilization and fault isolation for data through integration of HPE StoreOnce Catalyst and Veeam. In addition, support of StoreOnce Catalyst Copy enables movement of backup copies off-site for disaster recovery.

An HPE Apollo server can serve as a backup target. It is a cost-effective data protection infrastructure in virtualized environments. With HPE Nimble Storage Adaptive Flash and Veeam, you can leverage secondary storage for DevOps and DevTest workloads.

Veeam can send backups to HPE StoreEver tape storage or to the cloud for long-term off-site data archival. With integration of HPE Cloud Volumes Backup and Veeam software, existing datasets can be backed up to the cloud of your choice using current Veeam-based workflows with no vendor lock-in, faster backups, flexible restores and option to reuse backup data. Veeam delivers everything you need to reliably protect your virtualized environments with high-speed and verified recovery, complete visibility, data loss avoidance, and leveraged data.

Veeam software is available via the HPE Complete program, enabling you to source all components of the 3-2-1 best practice data protection ecosystem<sup>7</sup> from a single vendor.

### Leverage the expertise of HPE Pointnext Services

HPE Pointnext Services delivers numerous projects each year ranging from single-site to global, multisite rollouts. Services include:

- Advisory Services to define a road map for future success
- Professional Services to design and implement integration of infrastructure and software
- Operational Services for long-term sustained application continuity

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