

# HPE GREENLAKE FOR DATA PROTECTION WITH VEEAM

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Data is your most important asset and must be always available, always protected, and always able to rapidly and easily recover should a situation arise. As more data is generated faster than ever from the edge to the cloud, IT needs to modernize data protection to simplify operations, meet every SLA, and unlock the value from their data.

But in today's data-driven world, it becomes increasingly difficult to manage and control storage capacity. For many organizations, it's hard to predict how much capacity will be needed 6, 12, or 24 months down the line, which often results in overprovisioning at a high up-front cost or underprovisioning and risking performance degradations or downtime. This provides additional complexity when trying to determine how to best protect and manage data. While the public cloud offers the flexibility of a pay-per-use model, more often than not apps and data need to be kept on-premises for security, performance, or data sovereignty reasons. [HPE GreenLake](#) and [Veeam](#) offer a data protection solution that simplifies the IT experience by delivering a cloud services on-premises.

## REALIZE FASTER VALUE

Protect your data with an efficient, enterprise-class data protection solution offered in a cloud-like, pay-per-use experience. From rapid recovery to long-term retention, HPE GreenLake with Veeam delivers simple, automated backup and recovery.

Experience worry-free data protection and capacity that is delivered with the agility of elastic scale and a pay-per-use structure that links business value to use.

## Pay-per-use economics

Benefit from a flexible, consumption-based model with variable payments based on metered usage

## Accelerated time to value

Leverage trusted HPE and Veeam architectures for faster implementation and benefit from additional capacity ready ahead of demand

## Simplified IT

HPE brings expertise to make hybrid cloud simple and support to manage your environment

## On-premises control

Help ensure security and performance across edges, colocations, and data centers

## MAKE DATA PROTECTION EFFORTLESS

For rapid backup and recovery on-premises, HPE GreenLake with Veeam delivers robust, flexible, enterprise-wide data protection with intelligent deduplication to help maximize capacity. You can orchestrate and automate with support for 3-2-1-1-0 data protection driven by policy and business needs.

These cloud services are managed for you by HPE experts who take care of core maintenance activities to protect your data, allowing your IT staff to focus on strategic business initiatives.

Veeam delivers Modern Data Protection, which entails backup and recovery, cloud mobility, monitoring and analytics, orchestration and automation, and governance. Veeam Backup and Recovery manages and protects virtualized, physical, and cloud-based primary and secondary storage resources from the centralized Veeam ONE console. Core capabilities include backup, recovery, replication, and failover.

**TABLE 1.** Example configurations for HPE GreenLake with Veeam on HPE Apollo 4000 Gen10 servers

Reference configurations	Small scalable	Medium	Medium scalable	Large
<b>HPE Apollo server model</b>	HPE Apollo 4200 Gen10 server	HPE Apollo 4200 Gen10 server	HPE Apollo 4510 Gen10 server	HPE Apollo 4510 Gen10 server
<b>Description</b>	Half capacity	Full capacity	Half capacity	Full capacity
<b>Number of 800 GB SSD (for OS, vPower NFS)</b>	2 (RAID 1 mirror)	2 (RAID 1 mirror)	2 (RAID 1 mirror)	2 (RAID 1 mirror)
<b>Number of 16 TB LFF SAS HDDs</b>	12 (+1 hot spare)	24 (+1 hot spare)	28 (+1 hot spare)	56 (+1 hot spare)
<b>Usable capacity (excl. SSD)</b>	160 TB	320 TB	384 TB	768 TB
<b>Storage configuration</b>	RAID 60 (10+2)	RAID 60 (10+2) x 2	RAID 60 (12 + 2)	RAID 60 (12 + 2) x 2
<b>CPU</b>	2 sockets, 20 cores each	2 sockets, 20 cores each	2 sockets, 24 cores each	2 sockets, 24 cores each
<b>Memory</b>	96 GB	96 GB	128 GB	128 GB
<b>VM workloads supported</b>	1,100	2,250	2,700	4,800
<b>Used data size</b>	110 TB	225 TB	270 TB	480 TB
<b>Size of VBR backup repository</b>	160 TB	316 TB	376 TB	661 TB

**Benefits of HPE GreenLake and Veeam**

- Recover your data rapidly with data protection solutions that are ready quickly and evolve ahead of customer needs
- Decrease downtime by 99.6% through a tightly integrated HPE and Veeam data management solution<sup>1</sup>
- Have the choice and flexibility to protect your data wherever it lives
- Put backup data to work and extract value for dev/test or analytics purposes
- Equipment lives on-premises for proper control over compliance, performance, security
- Increased staff productivity to focus on innovation projects such as digital transformation

<sup>1</sup>“Veeam + HPE Nimble Storage: Five-Year ROI OF 278%,” IDC, December 2019

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**TRUSTED SOLUTIONS FOR HPE GREENLAKE WITH VEEAM**

Table 1 offers examples of reference configurations for the HPE and Veeam data protection solution based on HPE Apollo servers and the Veeam Availability Suite. In addition to these configurations, the HPE Apollo 4000 server family offers many customization options such as using different disk sizes and types including SSD and SFF disks, doubling the number of installable disks. This flexibility makes this platform suitable for different workload profiles including those demanding the most random I/O.

With more than 10 years of partnership, HPE and Veeam help customers optimize their data availability solutions to deliver increased application uptime, improve resource management, and reduce complexity.

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