



HPE SOLUTIONS FOR WEKA

Complete Storage Solution



WHAT'S NEW

- HPE ProLiant DL325 Gen10 Plus v2 and HPE ProLiant DL360 Gen10 Plus for easy configuration of Weka solutions with the latest AMD (Milan) and Intel® (Ice Lake) CPUs, respectively.
- Weka products for AWS implementations are now available from HPE. This enables HPE customers to deploy Weka in their hybrid cloud environments.
- Weka's GPUDirect Storage (GDS) is now available, demonstrating over 160 GB/s

OVERVIEW

Are your life sciences, financial services, and artificial intelligent (AI) compute workloads bottlenecked by slow storage performance? HPE Solutions for Weka is a scalable data platform that is ideal for performance-intensive workloads. The Weka Limitless Data Platform is built on WekaFS; a flash-native, POSIX file system that delivers the high IOPS and low-latency throughput needed for demanding compute requirements. The platform provides policy-based tiering, so data can span from NVMe flash to object storage in a single namespace for easy management and cost-effective economics. It supports industry-standard S3 interface that allows integration with on-premises and cloud environments.

with 1M IOPS to a single GPU client. S3-oriented workloads can experience a new level of storage performance.

- Weka now supports a front-end S3 interface when the highest performance is required from object storage. This complements the existing protocol stack of POSIX, GDS, NFS, and SMB.
- Weka has extended its ease of management features such as an extensive GUI and zero tunable parameters with support for Kubernetes, Rancher, and Red Hat® OpenShift to accelerate more user workloads.
- Weka offers an industry-leading comprehensive end-to-end encryption across data at-rest and in-flight now using XTS-AES 512 bit keys.

For performance-intensive workloads such as AI, machine learning, deep learning, data analytics, life sciences, and financial modeling, the Weka Limitless Data Platform employs an innovative storage architecture to provide performance at exabyte scale to solve today's biggest data-intensive problems.

FEATURES

Reduced Time to Results - Due to High Performance and Microsecond Latency

HPE Solutions for Weka is designed for flash using NVMe SSD technology, WekaFS software accesses the underlying flash media directly in its native 4KB format, so that both small files and large data sets can be processed in record time.

Low latency InfiniBand or 100GbE support means that data does not have to be local to the client for best performance. Data is dynamically distributed across the cluster for parallel access, resilience, and consistent performance and scalability.

The WekaFS software from HPE can leverage a single infrastructure to work on-premises or in the cloud (public or private) and elastically scale to match the requirements of your CPU or GPU resources.

Reduced CAPEX and OPEX - Through Improved Resource Utilization

HPE Solutions for Weka's full POSIX compliance means applications won't need to be rewritten to take advantage of WekaFS performance.

This architecture allows shared POSIX-based access to all your data without the requirement for unnecessary copies for data protection, providing full storage resource utilization.

Multiprotocol support - POSIX, NFS, Object/S3, NVIDIA GPUDirect Storage (GDS), Camera Serial Interface (CSI), and Server Message Block (SMB) allowing one platform to serve your data lifecycle needs.

The WekaFS supports expansion of the global namespace by tiering to any S3-compatible object store (HPE provisioned, third party, or public cloud) for cost-effective storage at massive scale.

Cloud Scale and Economics for Increased ROI

HPE Solutions for Weka's innovative Snap-to-S3 feature enables cloud bursting, remote backup to the cloud, and cloud-based disaster recovery.

Supports private or hybrid cloud environments without modification.

With WekaFS software from HPE, you can create a flexible infrastructure tuned for HPE hardware that can not only handle peak workloads but also scales for performance and capacity growth as system requirements evolve.



Complete Feature Set and Outstanding Performance for Demanding Enterprise Workloads

HPE Solutions for Weka's native flash implementation and support for high-performance interconnect fabrics helps eliminate the bottlenecks associated with legacy storage approaches, and the solution can be easily monitored, tuned, and managed using an intuitive browser-based administration console.

The solution supports Ethernet and InfiniBand of up to 200 Gbps and beyond, allowing full use of existing network, while accommodating future upgrades for improved performance and low latency. The software-defined platform enables flexible adaptation to future generations of infrastructure.

The WekaFS software from HPE supports small and large files, random and sequential access, and accelerates metadata access with distributed parallel access.

WekaFS delivers many enterprise features that are mandatory, including snapshots, clones, encryption (at rest and in-flight), key management, user authentication, client authentication, tiering, cloud-bursting, quotas, Kubernetes persistent storage, network high availability, and much more.

Technical specifications

HPE Solutions for Weka

Protocol supported

Weka client software is implemented using a POSIX file system driver, which creates access similar to using local storage for each client for AWS S3, object storage, and NFS v3 SMB.



For additional technical information, available models and options, please reference the [QuickSpecs](#)

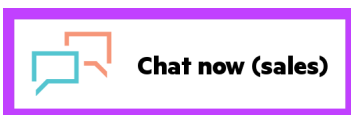
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