

Why WekaIO Matrix™ is the Ideal Platform for Next-Gen Storage

10 REASONS

**Breakthrough
Performance,
Cloud-like Scalability,
Game-Changing
Economics**

It's difficult for IT to predict storage requirements to support mixed user workloads and business demands. Conventional wisdom—adding more enterprise NAS—no longer delivers a competitive advantage. While easy to deploy, these systems were not designed for the performance and scale required by modern user workloads. Adding a flash tier improves performance, but system complexity and scalability remain key challenges.

A better approach is needed that delivers dynamic and independent scaling of performance and capacity. WekaIO's easy-to-manage software-only storage solution provides great small and large file performance at low latencies without the footprint, cost, and complexity of traditional storage solutions.

- 1 Hardware Independent Storage**

Leverage any x86 based server and your choice of off-the-shelf SSDs for true hardware independence. Avoid vendor lock-in and high margins.
- 2 All-Flash File Performance**

MatrixFS is our POSIX compliant file system designed from scratch to leverage the power of flash technology. The parallel and distributed file system presents a global namespace to easily access and share your data.
- 3 Best Performance and Latency for All File Types and Workloads**

WekaIO Matrix is ideally suited for the challenges of mixed workloads—large and small files, random and sequential access, structured and unstructured data. Using standard Ethernet technology, it delivers I/O at microsecond latencies.
- 4 Zero-Footprint with Reduced Power and Cooling Requirements**

The WekaIO Matrix software-only storage solution eliminates the footprint, cost, and complexity of traditional storage solutions by efficiently utilizing space within your existing servers.
- 5 Cloud Scale and Economics**

Leverage the cost benefits and scale of the cloud while eliminating infrastructure complexity by tiering cold data in the background to any S3, REST, or Swift compatible object stores (public or private) or NAS filers—your applications never lose access to the data.
- 6 On-Demand Scaling of Performance and Capacity**

Independently and dynamically scale up or scale down performance and capacity to meet application requirements using our intuitive GUI without costly and disruptive hardware upgrades.
- 7 Data Protection Without the RAID Performance Impact**

WekaIO Matrix uses a patented data protection scheme that delivers the resiliency of advanced erasure coding with higher performance and less overhead than replication, RAID, or other erasure coding schemes.
- 8 Increased Utilization of Existing Server Infrastructure**

Server CPUs are idle as much as 65% of the time. Improve server ROI and storage performance by collocating storage and compute. Benefit from a free storage performance boost with each server refresh.
- 9 Fully Distributed N+4 Data Resiliency**

A reliable cloud solution requires a fully distributed data protection scheme. MatrixFS provides twice the resiliency of RAID 6 or triple replication. Fault domains can be defined at the server or rack level for data center cloud scale.
- 10 Automatic and Transparent Tiering to the Cloud**

Never run out of storage again. Our integrated and granular policy based tiering allows you to migrate directories, files, or portions of a file automatically and seamlessly to cost optimized cloud storage without special software.