

# Accelerate High Velocity Analytics and Reduce Storage Management Overhead for FinServ

# 5 REASONS

to deploy WekaIO Matrix,  
the world's fastest, most  
scalable file system, in  
your Financial Services  
environment

Financial Services (FinServ) providers, including wealth management, insurance, and credit card companies, banks, and investment brokerages face daunting challenges to:

- differentiate their service offerings from competition to attract customers
- deliver online services around the clock and around the world
- analyze vast amounts of data for better investment strategies and risk mitigation
- modernize infrastructure to improve performance, efficiency, and agility
- keep customer data secure and protected.

To survive and thrive, FinServ providers are moving to cloud-based strategies for faster performance, simplicity, agility, scalability, and data security. However, even during this transformation, they must maintain business continuity, leverage legacy infrastructures for lower total cost of ownership, and ensure that customer data is protected from cyber security risks, breaches, identity theft, and fraud.

## 1 High Performance for Algorithmic Trading, Portfolio Analysis, and Risk Management

WekaIO Matrix™ empowers FinServ providers to create and access an Artificial Intelligence (AI) data lake for massive market data analysis without any storage performance bottlenecks. It delivers 10x the performance of traditional network attached storage (NAS) storage, while providing appliance-like simplicity. Our software-based architecture unleashes the high performance and low latency of native NVMe support for algorithmic trading and back-testing. This enables the delivery of real-time analytical insights that account for fast changing market dynamics. Benefits include personalized investment guidance, improved credit and risk assessments, faster actuarial analysis, and accurate fraud detection.

## 2 Agile, Cloud-Based Solution with Automated Tiering and Cloud Bursting

With Matrix, FinServ providers are more agile in adapting to changing business needs. A unified namespace for multiple workloads eliminates data silos and enhances sharing, collaboration, and productivity. Integrated tiering allows for seamless, policy-based migration of cold data in the background to more cost effective S3 cloud storage for long-term retention. Historical data such as actuarial tables and insurance claim information can be stored in the cloud and easily accessed when needed. The WekaIO solution can be flexibly configured to be all-in-the-cloud or as a hybrid on-premises/cloud infrastructure. Cloud bursting provides processing and storage resources to accommodate dynamic business demands and workload spikes.

## 3 Security, Data Protection, and Disaster Resiliency

Matrix provides data security for sensitive customer information with encryption of both data in flight and at rest. It is secure for mobile commerce, supports multi-tenancy, and is highly resilient. Furthermore, WekaIO Matrix uses a patented distributed 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. Matrix leverages cloud-based object storage to ensure business continuity, disaster resiliency, and data availability regardless of location.

## 4 Leveraging of Existing Infrastructure

With WekaIO, FinServ providers can reduce IT costs by making the most of their capital equipment investments. They can leverage any x86 based server, off-the-shelf SSDs, and standard Ethernet or InfiniBand components for true hardware independence. This eliminates vendor lock-in and its associated high margins. Integrated granular, policy-based tiering dramatically reduces infrastructure complexity by consolidating multiple tiers of storage to a hot tier for active data and a cold tier for inactive data.

## 5 On-Demand Scalability and Economy

Matrix provides for on-demand, independent scaling of performance and capacity. It was designed specifically for flash technology, and delivers unprecedented performance at less than half the cost of traditional NAS. Its integration with cloud object storage delivers scalability that allows businesses to grow while leveraging cloud-scale economics to stay within tight IT budgets. FinServ businesses can benefit from high performance even as data continues to grow. Matrix supports trillions of files and file sizes up to 4 PB, all in a single namespace to eliminate data silos. Managing petabytes of storage is radically simple with the WekaIO Trinity console. FinServ providers can benefit from both the cost and scale of the cloud while eliminating infrastructure complexity.

For more information on WekaIO, go to [www.weka.io](http://www.weka.io).

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