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REASONS

To Deploy WekaFS™ for High-Velocity Analytics in Financial Services

Financial Services institutions, including wealth management, insurance, and credit card companies, retail banks, and investment brokerages, are leveraging new technologies and algorithms to gain competitive advantage. Financial technology (Fintech) allows companies to differentiate their service offerings from the competition and attract new investments. Computers are superior to humans in analyzing vast amounts of data for better investment strategies and risk mitigation. The companies that can run more complex models with more data faster than the competition are the winners.

To survive and thrive, Fintech providers are moving to machine learning and simulation-based models to gain deeper insights at a faster rate. The winners are adopting modern infrastructure and the cloud for improved performance, simplicity, agility, scalability, and data security. However, even during this transformation, they must maintain business continuity, leverage legacy infrastructures for a lower total cost of ownership, and ensure that customer data is protected from cybersecurity risks, breaches, identity theft, and fraud. This is where WekaFS (Weka) comes in with its record-breaking performance and scalability.

1 HIGHEST PERFORMANCE FOR ALGORITHMIC TRADING, PORTFOLIO ANALYSIS, AND RISK MANAGEMENT

Weka empowers Fintech providers to access a massive data lake for better market data analysis without any storage performance bottlenecks. It delivers 10x the performance of traditional network-attached storage (NAS) while providing appliance-like simplicity. Weka's record-breaking software-based architecture unleashes the high performance and low latency of native NVMe support for algorithmic trading and back-testing.¹ Weka is also validated with Kx Systems software and accelerates kdb+. The Weka file system is ideal for delivering the highest performance to large-scale CPU and GPU-based computing, enabling 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 Weka, Fintech 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 background migration of cold data to more cost-effective S3 cloud storage for long-term retention. The WekaIO solution can be flexibly configured to be all-in-the-cloud or 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

Weka provides data security for sensitive customer information with both in-flight and at-rest data encryption. It is fully integrated with key management systems so even data that is migrated to the cloud is fully protected. Furthermore, Weka 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. Weka's unique snapshot-to-object feature leverages cloud-based object storage to ensure business continuity, disaster resiliency, and data availability regardless of location.

4 LEVERAGING OF EXISTING INFRASTRUCTURE

With Weka, Fintech 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; this occurs while all data is 100% available to any algorithmic model.

5 ON-DEMAND SCALABILITY AND ECONOMY

Weka provides for on-demand, independent scaling of performance and capacity. It is designed specifically for flash technology, and it delivers unprecedented performance, beating local disk storage (DAS), NVMe-over-fabrics SAN, and all-flash NAS in STAC M3 benchmarks. Weka's integration with cloud object storage delivers scalability that allows businesses to grow while leveraging cloud-scale economics to stay within tight IT budgets. Fintech businesses can benefit from high performance even as data sets continue to grow. Weka supports trillions of files, all in a single namespace that eliminates data silos. Managing petabytes of storage is a breeze with the Weka management interface. Fintech providers can benefit from both the cost and scale of the cloud while eliminating infrastructure complexity and vendor lock-in.

¹ Weka with HPE hardware set 17 records on STAC M3 testing.

For more information on WekaIO, go to www.weka.io.

