



Dynamic Cloud Storage for Log-File Data and Analytics

Predictable cloud economics, high performance, and world-class security make Lyve Cloud an ideal solution for log-file storage and analysis.

Solution Summary

Lyve™ Cloud from Seagate® helps enterprises overcome log-file storage and retention barriers by eliminating the cost uncertainty associated with storing data in the cloud and applying analytics as needed. A flexible, vendor-agnostic solution, Lyve Cloud is crafted to complement existing cloud ecosystems while delivering optimal TCO and world-class data security.

Benefits Summary

- Predictable cloud economics with no access or egress fees
- Stringent, globally recognized data security standards
- Scalable, high-performance storage-as-a-service cloud
- Built to support a constant stream of log-file data from many sources daily

Log-file data is one of the biggest contributors to explosive data growth outside of raw data produced by applications. This log-file data holds tremendous value, but storing and analyzing all of it remains a challenge. With so many consistent streams of log-file data being generated daily, enterprises need dynamic cloud storage with predictable economics to maximize the data's full potential.

The Problem

Data is growing exponentially, and this explosive data growth is amplifying data gravity at the metro edge. Data gravity is the relationship between data and applications—the two are attracted to one another, as in the universal law of gravitation. This is especially true in metro edge environments. And while data gravity may seem like a problem, it can also be part of the solution.

Outside of the raw data that's produced and used by applications, each transaction generates a

tremendous amount of log files. This log-file data holds valuable insights when analyzed in a timely and intentional matter. As such, log-file data is crucial for the continued success of enterprises and our global economy.

A log-file analysis often involves processing large amounts of data—particularly for large websites and Internet of Things (IoT) devices. The more log files that can be stored and analyzed, the more comprehensive the insights that log-file data can

deliver. These insights can be used to pinpoint problem areas and refine processes and products for the better.

That's why enterprises need a central repository that's equipped to handle a constant stream of log-file data.

Improve
Product Quality
Increase Efficiency
Improve Usability
Find New Megatrends
Business Insights
Security & Compliance
Drive Innovation
Create New Revenue Streams

Log-File Flood: Boon and Bane



The Problem

By allowing users to view exactly what's happening, logs remove the guesswork. Log files generally support debugging, system performance reviews, intrusion detections, and the creation and analysis of trends based on historical data. IT security, website and web server analytics, electronic retailing and financial transactions, market research, IoT logging—all of these things create massive amounts of valuable data. And since logs carry sensitive information about the business, devices, usage, websites, and users, it's imperative they're securely stored in a central repository for analytics and forensics.

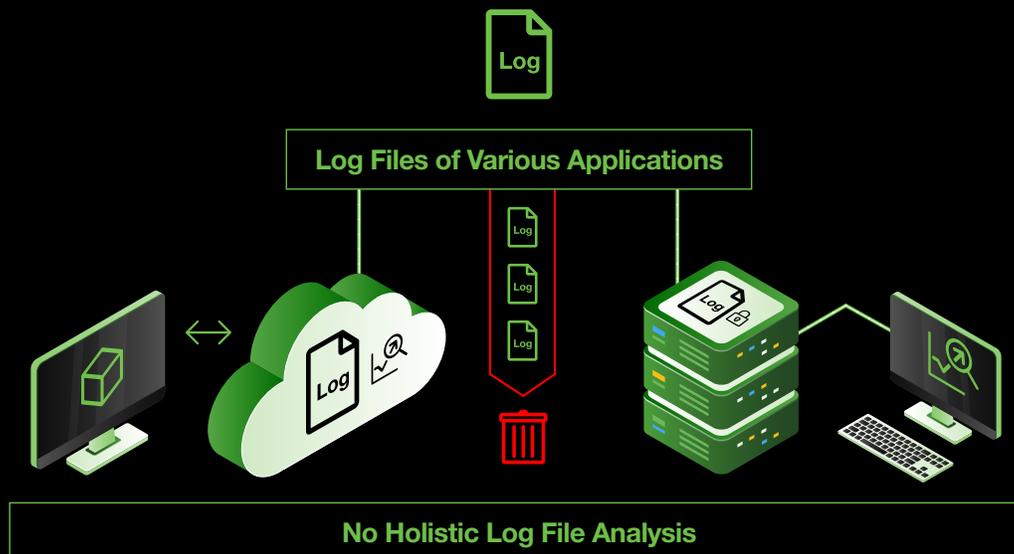
The results of log-file analyses can have a significant impact on enterprises and consumers. They can help improve products, providing direct feedback for research and trends that inform future business success. Additionally, they can support business continuity while improving security and compliance. To maximize these insights, enterprises should strive to collect as much log-file data as possible. But with logs coming from thousands of streams caused by many users and their devices, the challenge for enterprises is in finding a solution that enables them to store and analyze all this data.

Log-file data repositories are very dynamic and can become quite large rather quickly. For example, a company with 1,000 employees and an average network size can easily generate corresponding log files with 100-gigabyte capacity in a single day. Now consider all the generated web traffic for users and enterprises—including IoT. Log files account for a big percentage of data generated daily; every security attack, IoT device, and website click creates a log-file entry. While some of these log files are simply transactional or for temporary use, others must be kept for extended periods of time or indefinitely

The Status Quo

Log files are distributed among platforms and apps, making analytics time consuming and costly. As such, not all log files are captured and stored for a longer period in a central repository for a holistic analysis that leads to better business operations, product quality, and security.

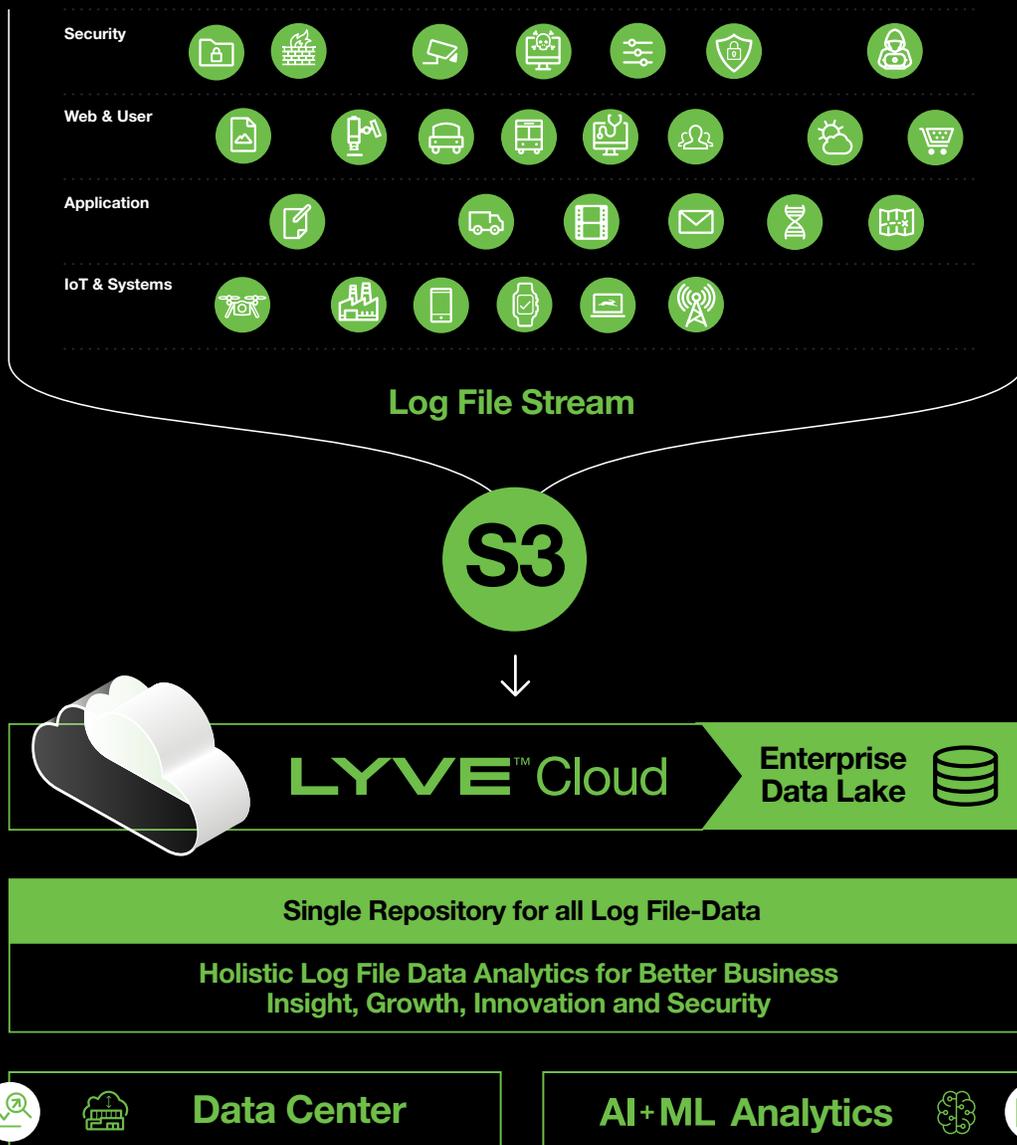
Some log files must be analyzed in real time while others must be aggregated in a pool for big data analytics. Collected logs must also be preserved for compliance and security audits. It's a very dynamic data environment with frequent updates and changes. As such, storing log-file data in a cloud storage bucket would cause significant and unpredictable costs. Log-file data analytics benefit from scale-out cloud storage solutions that store data more dynamically than an on-premises data center.



The Solution with Lyve Cloud

Lyve Cloud helps businesses tackle their log-file repository challenges by providing true cloud flexibility and data security. With long-term cost predictability and zero add-on charges or egress fees, this vendor-agnostic storage-only cloud delivers optimal TCO for mass data storage. Lyve Cloud enables users to store unstructured data at a predictable cost with choice of compute for S3 workloads—allowing businesses to scale without limits.

In addition to predictable cloud economics, Lyve Cloud provides world-class security for log-file data. Safeguard data with ransomware protection, enterprise-grade identity management support, automatic data replication, and data encryption at rest and in flight. Lyve Cloud also enables users to set retention times for certain data sets so they cannot be modified or deleted for the specified duration—including audit logs for compliance.



Conclusion

Lyve Cloud from Seagate helps businesses overcome log-file storage and retention barriers because it eliminates cost uncertainty associated with storing data in the cloud and applying analytics as needed.

With Lyve Cloud, businesses can consolidate all log files from all applications in a single repository

for better and deeper analytics. This log-file data can be protected from manipulation and deletion by setting data retention policies. Lyve Cloud is the ideal complement to an existing data lake or the ideal foundation for building one so that all business data can be activated.

With more than 40 years of storage innovation, Seagate's vertically

integrated cloud solution offers the fastest ramp to value. We handle data storage so businesses can focus on what they do best.



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