SEAGATE
LYVE™ Cloud

Solution Brief
BIG DATA ANALYTICS

Accelerate Your Path to Insights

Harness the freedom and scalability of open data lake architecture with a fully managed, full-stack platform for DataOps and MLOps.

Challenge Summary

Today's enterprise data science teams all face the same two challenges. The first is a growing swell of data from an ever increasing number of sources. The second is finding an efficient, cost-effective storage solution that helps turn that data into business value.

Benefits Summary

- Save up to 40% on analytics
- Reduce time to insights by 70%
- Rapidly deploy MLOps
- Reduce defects with pre-built, industry-standard accelerators and models
- Includes white-glove support from Seagate data scientists

Seagate Lyve Cloud Analytics lets you harness the freedom and scalability of open data lake architecture through a fully managed, end-to-end platform for DataOps—including machine learning operations (MLOps)—combining frictionless object storage with flexible compute resources and pre-built analytic accelerators.

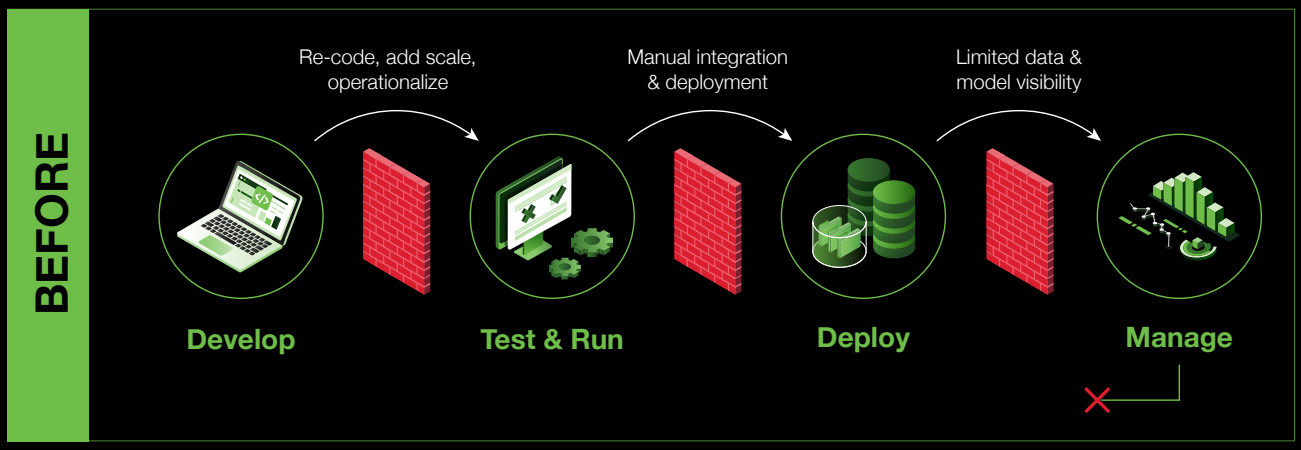
When businesses start working with ML and AI, they often have early laboratory success training models. Production deployments of these models often fail for a wide variety of reasons including tool mismatch between model training and production deployment teams, inconsistent access to data and an inability to track model performance. Teams may need to re-engineer the flow, causing a lengthy, inefficient, and expensive production schedule.

In this all-too-common scenario, building, deploying, and maintaining the actual AI application is acutely painful, and sometimes nonviable.

Modern applications in which AI models provide real-time recommendations, prevent fraud, predict failures, and guide self-driving cars require significant machine learning and engineering efforts. And with those requirements comes the need for data analytics and modeling solutions that make it all feasible, effective, and reproducible.

Data-science components must be robust, performant, highly scalable, and aligned with agile software and DevOps practices. Organizations looking to embed AI into their business practices need to create processes that are repeatable and reproducible, so that more AI applications can be built, deployed, and managed on an ongoing basis.

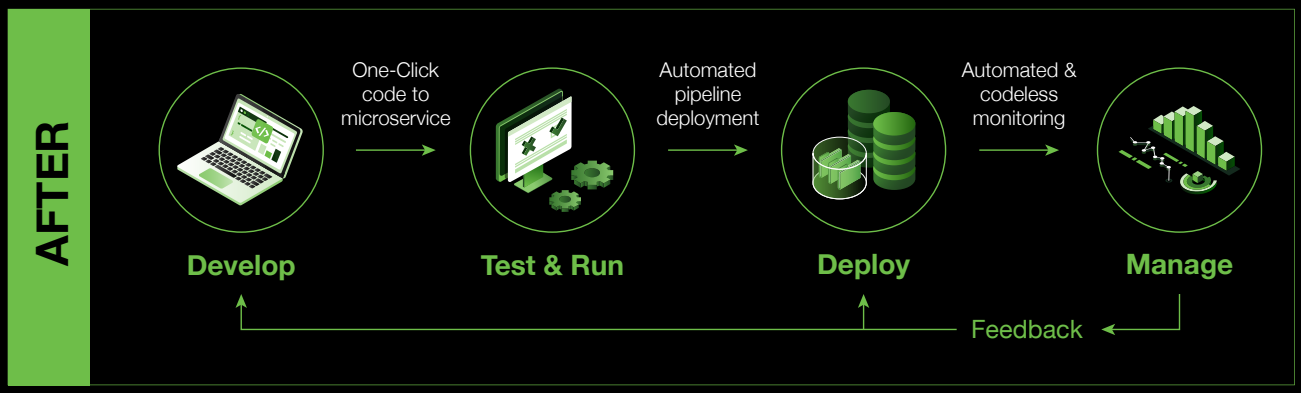
Data science, Data engineering and MLOps are too crucial to be held back by inefficiencies or delays.



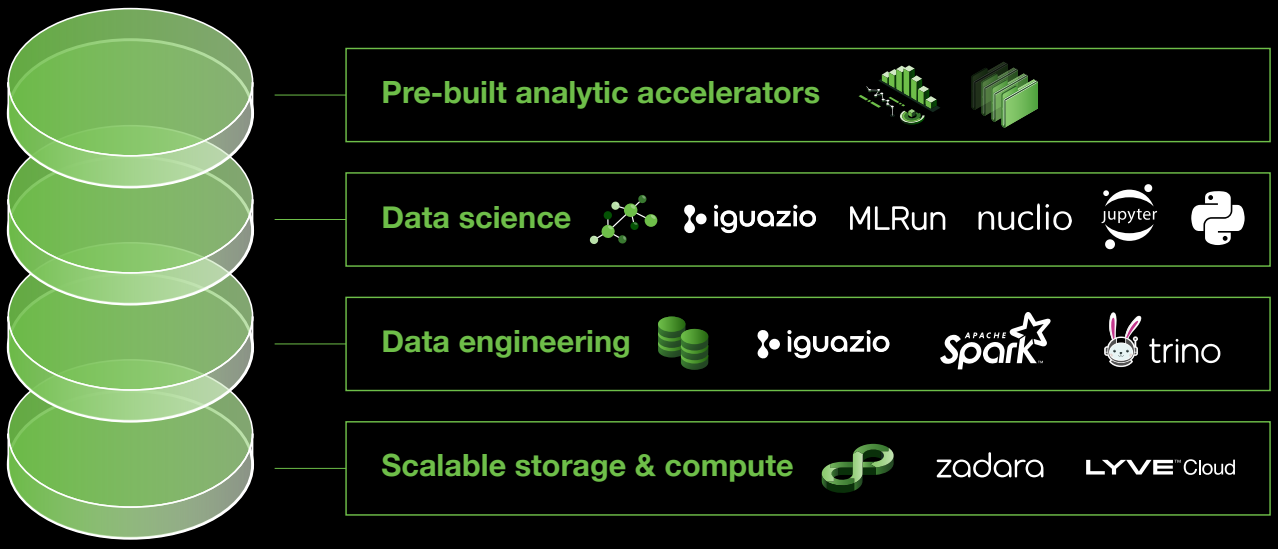
The Solution

Lyve Cloud Analytics presents a much-needed, all-in-one platform for enterprises to store and analyze data, scale and migrate workflows, and conduct machine learning algorithms and engineering. To accomplish this, we designed Lyve Cloud Analytics with several defining features:

First, the Lyve Cloud Analytics platform is centered around open data lake architecture. Storage capacity is limitless, you can store any type of data you want, there's no vendor lock-in, and the only thing you'll pay for is the amount of data you store—that's it. No egress charges or API fees, ever. As such, you can freely move data around your hybrid or multicloud environment, putting it in the places where it'll bring the most value. In short, you'll be able to take control of your data, and just as important, your cloud storage bill with savings of up to 70%.



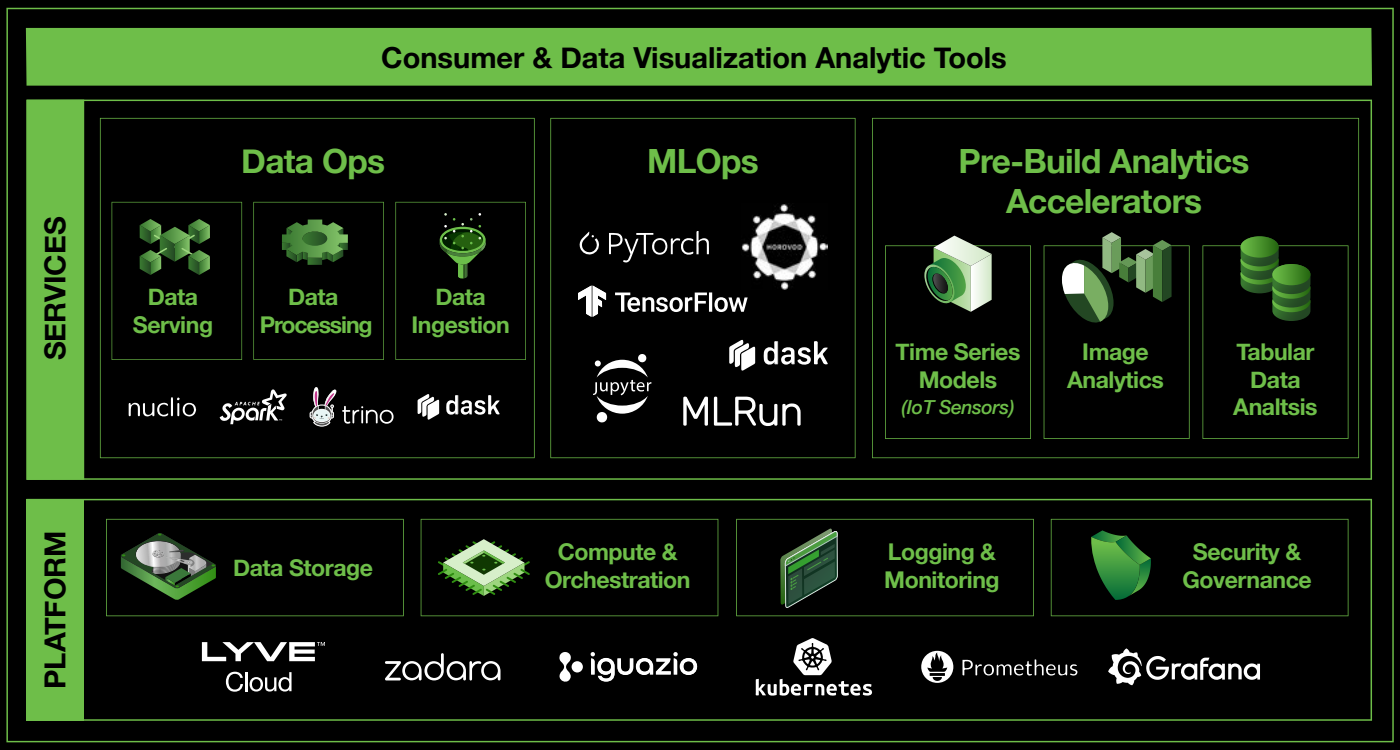
Lyve Cloud Architecture: Built for Data Engineering and Advanced Analytics



Additionally, Lyve Cloud Analytics provides flexible compute resources and pre-built analytic accelerators, applications, and training models. Bundled together, this helps teams save up to 40% on analytics costs as they:

- Scale, add, and migrate workflows on the fly with seamless interoperability.
- Rapidly deploy production-grade machine-learning pipelines with self-service data science tools—such as customizable blueprints for tabular data analysis and a pre-trained model gallery inspired by Seagate's own diverse, best-in-class data science practices—to accelerate AI and ML into production.
- Conduct large-scale data engineering and feature engineering for real-time and batch data.
- Enable codeless data and model monitoring, drift detection, and automated remediation/re-training.
- Leverage mainstream, pre-integrated CI/CD, ML, and Git frameworks across code, data, and models.
- Quickly classify images and detect objects with cutting-edge deep learning models designed for pixel-level analytics.
- Use historical data to predict future trends using industry-standard time-series models.

Topping it all off, these offerings come wrapped up in one end-to-end fully managed platform, white-glove service. From testing and deployment to ongoing use, Seagate's team of data scientists will be there each step of the way so that your analytics operations can hit the ground running and keep pace as your business innovates its way into the future. As for the data itself, it'll remain yours and yours alone. We take data security seriously, so anything you store using Lyve Cloud Analytics will be encrypted by default and protected by the most stringent security standards—only you will have access to it.



In Conclusion

If you're ready to unlock the full value of your data, Lyve Cloud Analytics is on your side. As a solution we originally built for our own global production sites, now we're offering it to other enterprises who, like us, have big ambitions for their mass data analytics.

Combining frictionless object storage with flexible compute resources, managed applications, and pre-built analytic models for AI and machine learning, Lyve Cloud Analytics removes the barriers that slow down your time to meaningful insights.

Offering all the benefits of an open data lake architecture—and all the expert support you need—improving analytics, while reducing costs in the process, is finally easier than ever.

Open Data Lake

Infinitely scalable, secure, managed, simple solution with mass capacity data lake.

Managed Data Platform

At-scale, feature complete, self-service data engineering solutions

Automated MLOps

End-to-end scalable data science tooling with production grade workflows

Accelerators

Pre-built and re-usable advaced analytics models.

To find out more and connect with an expert, visit

Seagate.com/services/cloud/storage/analytics

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