



The Building Blocks of Hyperdrive

A Framework for Data Transformation Success

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The Foundation

Understanding the High Stakes of Data Transformation

“Cloud use cases continue to expand with increasing focus on distributed, hybrid, cloud-native, and multi-cloud environments supported by a cross-cloud framework, making the public cloud services market achieve a 21.5% growth in 2025.”

– Gartner

As cloud adoption expands, organizations face new challenges in navigating distributed, hybrid, cloud-native, and multi-cloud environments, and realizing the projected performance outcomes. Data availability across a multi-cloud environment is a key determinant in realizing business benefits. Delayed data access could lead to fragmented workflows, which, in turn result in significant operational inefficiencies.

Data modernization is an essential part of leveraging cloud to make data more accessible, usable, and valuable.

Dealing with diverse data formats, data access techniques, and mixed workloads adds to the complexity, often accentuated by siloed knowledge data sources, ETL jobs and dashboards, some of which may also be obsolete. Cloud-based data pipelines offer a strategic solution, allowing teams to bring together data. However, this process demands a strategic and intent-driven planning and execution.

As enterprises race to modernize their data infrastructure, Google Cloud has emerged as the platform of choice for AI-driven innovation, scalability, and cost efficiency. The accelerating adoption of AI technologies in IT and business operations is further driving the need for cloud-based solutions.

wavicle



Say Hello to

HYPER DRIVE



Introducing Hyperdrive: Wavicle Data Solutions' comprehensive platform designed to accelerate, automate, and optimize data modernization initiatives. Hyperdrive streamlines complex transitions by automating key processes, including workload and data migration, ETL modernization, Accelerate BI Transformation and Cloud cost Optimization

This eBook breaks down the five powerful accelerators that form the backbone of Hyperdrive—each designed to tackle a specific migration challenge, ensuring enterprises can seamlessly move to the cloud with speed, accuracy, and zero turbulence. Whether it's AI-powered automation, data migration, ETL modernization, BI transformation, or performance tuning, Hyperdrive transforms data modernization into a seamless, intelligent process.

Why Cloud Data Migration Fails And How to Avoid It



Understanding the Data Landscape

Siloed and poorly documented data sources, ETL jobs and dashboards are a typical characteristic of most enterprises



Prioritization

Dependency on tribal knowledge and lack of knowhow can hamper understanding of pipelines, and knowing what and how to migrate.



Data Volume and Integrity Risks

Poorly executed migrations can result in lost or corrupted data, disrupting business intelligence and decision-making.

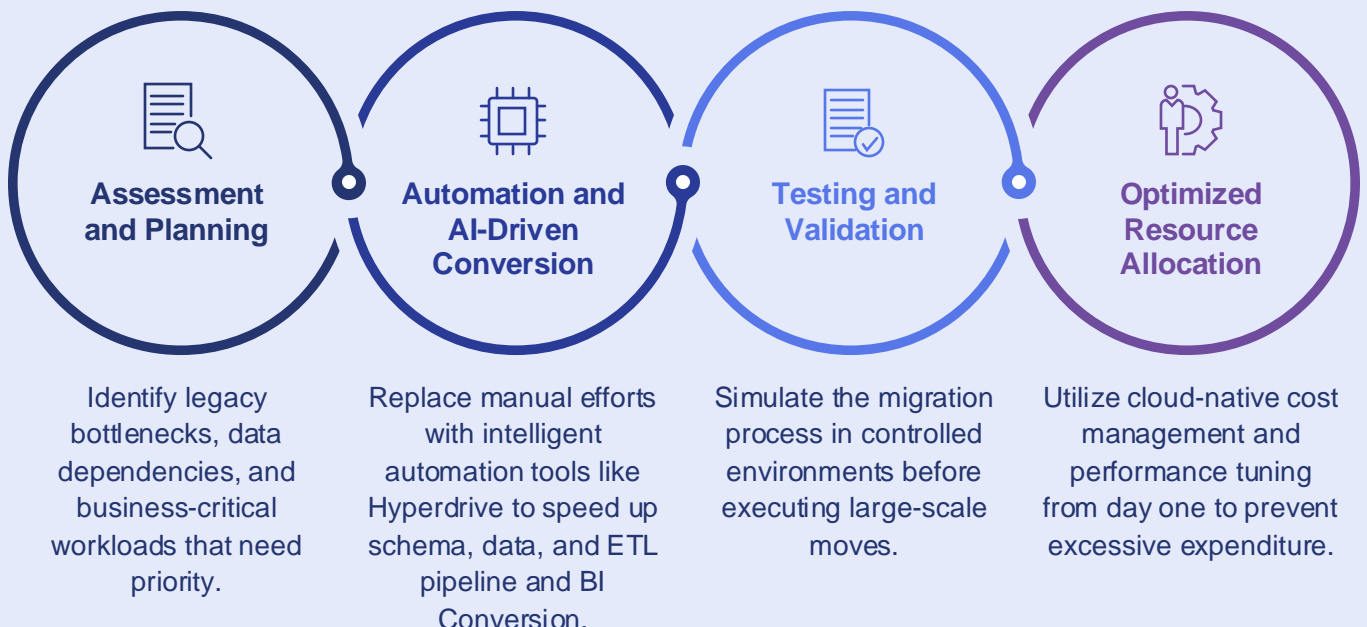


Legacy System Complexity

Traditional architectures weren't built for cloud environments. Without automation, enterprises face endless compatibility issues and delays.

Preparing for a Seamless Transition

A successful migration begins with the right strategy. Here's how Hyperdrive ensures a seamless transition for enterprises struggling with complex cloud migrations:



This structured approach ensures a fast, secure, and cost-efficient migration—one that doesn't just move data but transforms how businesses operate in the cloud era.

Chapter

02

The Building Blocks of Hyperdrive

Five Accelerators for Data Modernization

01

EZConvertBI – Preserving Business Intelligence Capabilities

Many organizations struggle with migrating reports and dashboards without losing functionality. Hyperdrive's BI Converter allows businesses to move BI from tools like Tableau, Power BI, and MicroStrategy to Looker Studio and Google Data Studio.

Key Benefits

- Maintains the structure and logic of reports post-migration.
- Allows users to access insights seamlessly in the new cloud environment.
- Ensures continued business intelligence functionality with minimal retraining.

02

Data Mover – Securing Efficient Data Transfers

Hyperdrive's Data Mover ensures the seamless migration of massive datasets with near-zero downtime. It is optimized for handling structured and unstructured data while maintaining accuracy and integrity.

Key Benefits

- Transfers millions of records with minimal impact on business operations.
- Ensures compliance with industry standards for security and governance.
- Provides detailed logging and error tracking for transparency.

03

EZConvertETL – Modernizing Data Pipelines for the Cloud

Legacy ETL jobs are often incompatible with cloud-native tools, requiring extensive rewrites. The ETL Converter simplifies this process by converting ETL logic from traditional systems (Informatica, IBM DataStage) to Google DataFlow, PySpark, and other cloud-native solutions.

Key Benefits

- Speeds up the ETL migration process, ensuring cloud readiness.
- Ensures that data pipelines function efficiently in the new environment.
- Reduces dependency on legacy systems and tools.

04

DB Optimizer – Enhancing Performance Post-Migration

Once the migration is complete, optimizing databases for cost and efficiency is critical. The DB Optimizer ensures that cloud-hosted databases are fine-tuned for maximum performance, preventing unnecessary cloud expenditure and latency.

Key Benefits

- Identifies inefficient queries and optimizes execution plans.
- Helps manage cloud storage and compute costs effectively.
- Ensures a fully optimized cloud database environment post-migration.

05

DDL Converter - Transforming Database Schemas with Precision

One of the biggest obstacles in cloud migration is converting database schemas from legacy systems into cloud-compatible formats. Hyperdrive's DDL Converter automates schema translation, ensuring a seamless transition from databases like Oracle, Teradata, and SQL Server to modern platforms like Google BigQuery.

Key Benefits

- Eliminates manual errors in schema conversion.
- Supports multiple conversion formats (File to File, File to DB, DB to DB, DB to File).
- Reduces migration time by up to 70%.



Chapter

03

What to Expect Post-Transformation

Completing data transformation is just the beginning. Organizations must ensure that their cloud environment is optimized for long-term success. This chapter covers essential post-migration steps to maximize performance and ROI.

01

Integrating with Google Cloud's AI Ecosystem

Hyperdrive enables organizations to tap into the full potential of the AI capabilities of Google Cloud, including:



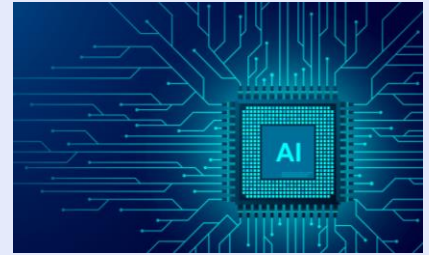
Vertex AI

Vertex AI for machine learning-driven data insights.



BigQuery & Looker Studio

for advanced analytics and visualization.



Agent Space

Agent Space for AI-powered enterprise data interactions.

02

Future-Proofing Your Data Infrastructure



Establishing automated governance policies to maintain data integrity.



Optimizing data pipelines to avoid redundancy & reduce operational costs.



Implementing scalable AI and ML models to drive innovation.

Successful migration isn't just about moving data—it's about transformation. Hyperdrive's automation, AI-driven insights, and seamless integration with technology partners to ensure a fast, cost-effective, and intelligent data modernization journey.

For businesses looking to future-proof their data infrastructure, Hyperdrive provides the speed, efficiency, and intelligence needed to thrive in the cloud-first era.

Get in Touch for a Personalized Data Transformation Strategy →

