

Moving Data Too Much?

For over 50 years, data integrations have been built upon three critical steps - **Extract, Transform and Load (ETL)**. The underlying processes have evolved and matured and even the order of operations has been modified, however the fundamentals of ETL are as critical to data analytics today as they were in the 1970s.

The Problem

Collectively, we have grown extremely efficient at moving large volumes of data and as an industry have baked these steps deeply into the modern data stack to keep production environments well fed.

Reduce Unnecessary Data Movement

The industry has grown extremely efficient at moving large volumes of data and as an group have baked these steps deeply into the modern data stack to keep production environments well fed:

- **Reduce unnecessary data movement.**
- **Collaborate within a single virtualization layer.**
- **Reduce EC2 compute consumption costs 70%.**



- The creation of an ETL/ELT pipeline can be a major undertaking, requiring planning, budget, and resource allocations. With these challenges, users are caught in a trap of not being able to query their data to identify what data they need to access.
- When an ETL/ELT pipeline is created it necessitates moving large amounts of data, incurring costs for both moving and storing. The processing overhead of these jobs often leads to the need to schedule them to run at specific times, which can result in inefficient usage of resources and increased costs.
- Data in analytics and BI systems are often updated at regular intervals, and in some cases data is frequently unused, leading to stale dashboards and queries that are still being refreshed, adding to the cost.

Our Advantage

Promethium addresses these challenges through its Data Virtualization solution. This innovation in data integration provides a simpler method for integrating, consolidating, and transforming data from various sources into a unified real-time environment. Data Virtualization allows you to leverage your existing data stack and connect different data sources to deliver a holistic view of your data.

We never require the relocation of data, which speeds up the delivery of new data products and minimizes resource usage. We deliver an enterprise data-access layer, providing universal search and access to all of your critical data sources. When business users need to access data, they query Promethium which in turn gets the data from the applicable data sources. Because our data virtualization layer takes care of the data-access, it abstracts users from complexities such as where the data is stored or what format it is in.

Promethium delivers a consistent layer atop inconsistent data that enables users to collaborate within a single UI to extract knowledge from data without having to move or create copies. We empower users to search and experiment on data without any upfront pipeline creation overhead as we connect users to real-time data through a single UI. Whatever your business objectives, we're well positioned to significantly shorten the time to market (in minutes, not months).

As a virtualization layer connecting data consumers to disparate sources we are uniquely positioned to track and report on usage in both directions - how impactful a data object is to your business, and which users find the most value from which data sources. Promethium can provide insight on which BI dashboards are actively being used and which assets are most valuable to users asking questions of the data.

By reducing the amount of data being moved and stored, organizations can reduce their EC2 compute consumption costs while cutting 80% of the time normally wasted on data preparation, management and integration.

Would you benefit from Data Virtualization?

Are you unable to ask questions of your data or make data driven decisions? Data Virtualization is ideal for situations where data demands change quickly and where access to the data in real time could be critical to business outcomes

Is your data dispersed across numerous repositories? Data Virtualization provides access to all of your data sources, allowing you to federate and align all of these sources into a single consumable data model

Are infrastructure and maintenance costs for data warehousing and storage too high? Data Virtualization eliminates the need to duplicate and move data eliminating most of the costs associated with traditional data management.

If you answered yes to any of the above questions, get in touch with us to discover how Promethium's Data Virtualization can revolutionize the way you manage your data, saving you valuable time and money.