



# Atlas Data Federation

Seamlessly query, transform, and aggregate data from one or more Atlas databases, Atlas Data Lake datasets, and cloud storage buckets.

Leverage Atlas Data Federation to easily work with data that resides in a range of different sources. Seamlessly query, transform and aggregate data from one or more Atlas databases, Atlas Data Lake, and cloud object storage buckets. Reduce the time and effort it takes to create refined datasets that power real-time application experiences and enable downstream analytics.



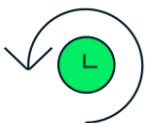
## Simplify Workflows

**Seamlessly aggregate data** from one or multiple data sources and persist the results to their preferred storage location without complex data pipelines



## Get Faster Insights

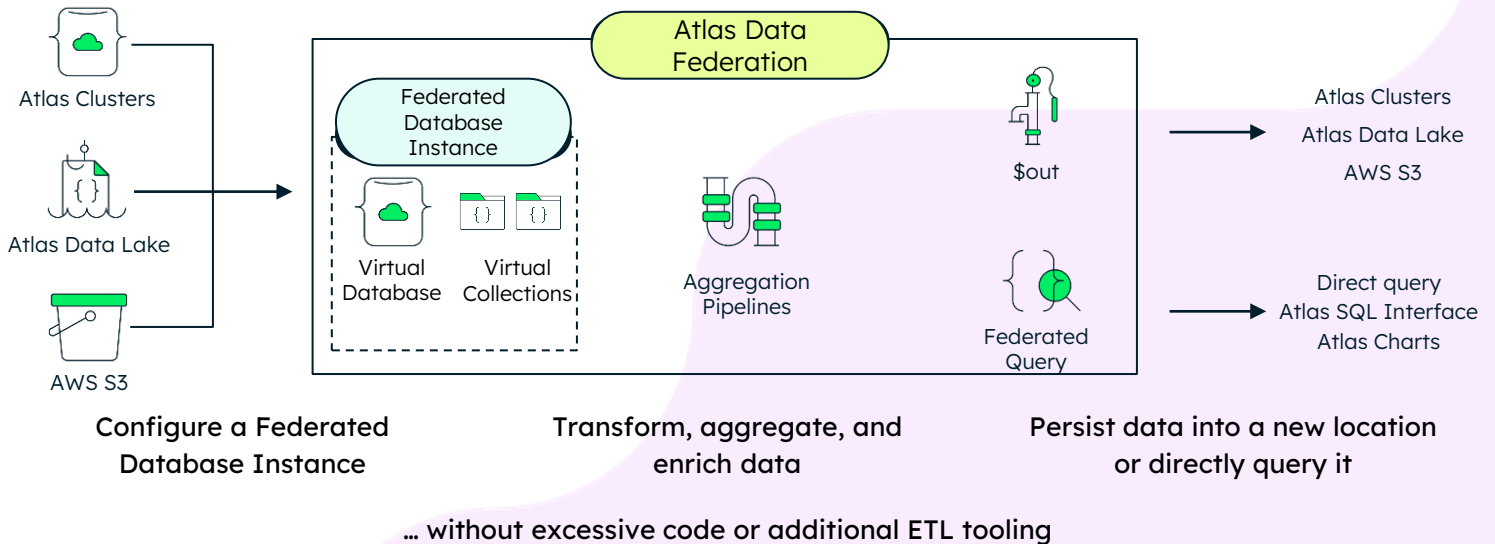
**Convert MongoDB data** to a columnar file format (e.g. Parquet or CSV) and output that data to cloud storage to be consumed by downstream teams, enabling faster insights on data when used with analytics tools



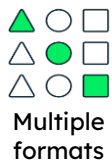
## Power Real-Time Apps

**Federate queries** across live MongoDB Atlas Databases and cloud object storage without data movement or transformation to power real-time application experiences

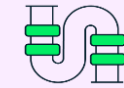
# How Does Atlas Data Federation Work?



## Features:

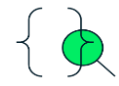


Analyze data stored in JSON, BSON, CSV, TSV, Avro, ORC and Parquet in place without the complexity, cost, and time of data ingestion and transformation.



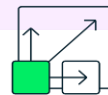
Powerful aggregations

Run powerful, modular aggregations on data in-place and persist the results to your preferred storage tier for more control over your dataflows.



Federated query

Run a single query to analyze data across multiple MongoDB databases and cloud storage buckets together for faster insights.



Serverless

No infrastructure to set up and manage - create your federated database with a few clicks and start running queries immediately.



On demand

You only pay for the queries run. With an on-demand service, you can eliminate the need to predict demand or capacity.



Fully Integrated with Atlas

Get access to our other product offerings such as Charts for advanced data visualization and Compass for a visual exploration of your data.

## Use Cases

### Data Engineering

Creating a federated database lets developers transform & aggregate data between Atlas & cloud storage, between two Atlas databases, or from cloud storage into Atlas.

### Data Reshaping & Remodeling

Make data across Atlas clusters easily consumable. Teams can search across multiple collections.

### Data Tiering/Archival

Query long term storage solutions, such as AWS S3, as if the data were still in your cluster, and optimize your resources by moving data between sources based on importance, accessibility, and frequency of use.

“ We use MQL in every part [of our business]. And with Data Lake [Data Federation], we can use that easily and find data in any storage with a very familiar query, and this is good for us. ”

-Igor Agenor Piovezan,  
Software Specialist Developer,  
Segware

