

Migrating Big Data Workloads to Azure Cloud for Asset Management Firm



THE CLIENT

Our client is a leading asset management firm with experience of nearly five decades. They deal with a wide variety of assets, including fixed income, equities, emerging markets, and alternative investments. They manage assets for some of the largest corporate and public pension plans, endowments, foundations, investors, and high-net-worth individuals.



THE CHALLENGES

For nearly a decade, our client was using a 3rd party big data legacy platform for calculations, aggregations of financial data, and then successfully delivering data to the end-user.

The **datasets were huge** (billions in number), including Credit Risk Transfer data for Connecticut Avenue Securities and Structured Agency Credit Risk, which have been directly provided by the Government-Sponsored Enterprise. Also, other tasks like risk analysis, fund management, and fund distribution were more **dependent on the on-premise setup**.

In addition to these, the **utilization of the on-premises legacy platform** became unsuitable for uploading, processing, aggregating, raising queries, and downloading the appropriate data, resulting in **frequent recurring performance issues**. It became less efficient to work on such a challenging platform.



Microsoft Azure

The on-premises setup has to **pay high maintenance costs** and **expensive annual subscriptions** for it.

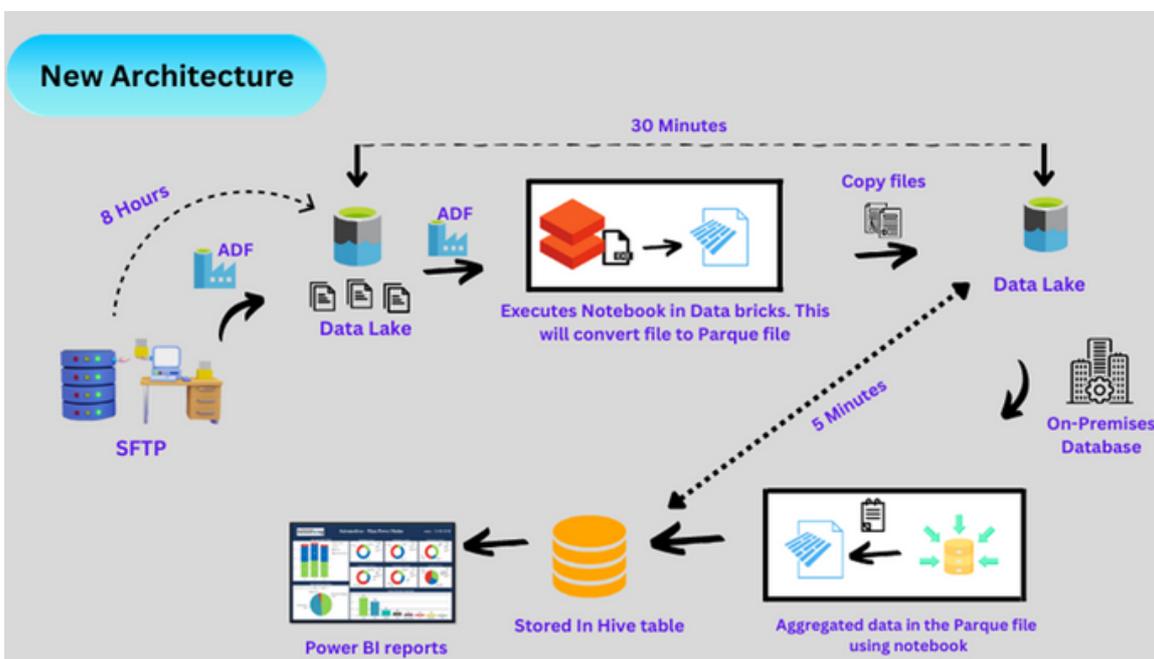
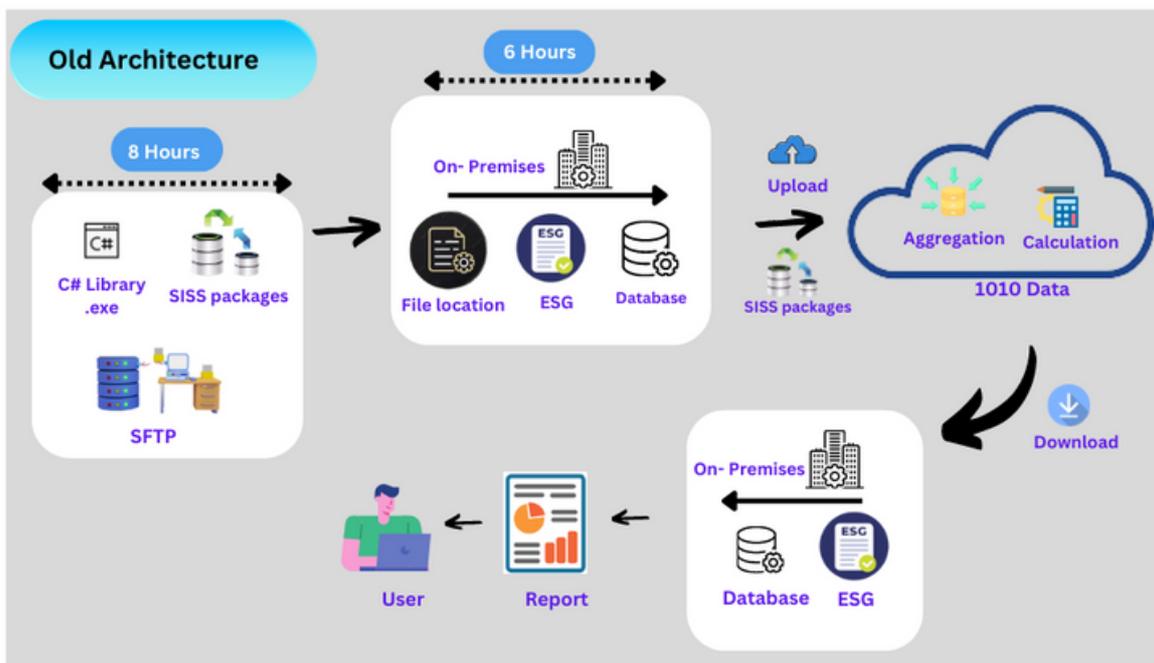
In order to address all these challenges, we made great efforts and implemented flexible solutions through **migrations**, and we are now getting the best outputs. Through these solutions, all the issues were resolved, and now the client is happy because they are getting long-lasting and resilient services that will have a great impact for decades to come.



SOLUTIONS

We migrated our client's **big data workloads** from on-premises to the **Azure cloud**. This was one of the most momentous shifts they have undergone in a long time. Azure Cloud Services stands as the best solution to meet their growing customer needs with its faster service, enhanced flexibility, smart disaster recovery, and better security. The migration played a vital role and enabled our clients to perform their previous tasks with better **data governance** and **management**.

We converted to an open-source column-oriented data storage format to improve performance and accelerate data aggregation and processing. With features like high-performance and enterprise-grade security, we **utilized Azure Databricks** to increase the efficiency of loads, calculations and data processing. We **integrated Data Lake**, which offered our client **low-cost data storage** and transactions. Each solution we implemented allowed our customers to operate to the fullest extent possible.



SOLUTION BENEFITS

Our solutions offer a lot of value to how our clients operate and also to their valued customers.

- Due to the **low cost of Azure cloud infrastructure**, our client can now onboard new capabilities and manage their **huge data sets** and customer portfolios sustainably.
- With Azure, the client is now enjoying **low maintenance costs** and a **shorter turn-around time**. They have also achieved effective cost management and improved cost predictions.
- Now our client can perform the **tasks quicker** and more efficiently with **Azure's high-performance** in-memory technology and intelligent query processing.
- Our client is now enjoying improved performance due to **faster data load processing time** and aggregation processing of large datasets.
- In financial services, security is the utmost priority. With the help of the **Azure Active Directory service**, we ensured **security** by securing identity and sharing the right information with the right person.

ABOUT US:

UB Technology Innovations, Inc. (UBTI) is one of the leading and preferred Microsoft Gold Certified Multiplatform partners backed by a world-class team of Microsoft Certified experts with rich experience in cloud and traditional technology development. Our data solutions help businesses achieve efficiency and optimize growth. UBTI is the winner of the prestigious Azure Synapse Hackathon 2021 award.



Winner of the prestigious Azure Synapse Hackathon 2021 award



One of the Top 10 winners of the Microsoft's Azure AI & ML Workathon