



BNY Mellon helps clients harness the power of data and analytics via Microsoft Azure

Customer
BNY Mellon

Products and Services
Azure

Industry
Banking and Capital Markets

Organization Size
Corporate (10,000+ employees)

Country
United States

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BNY Mellon is a financial services business with an ultra-modern outlook. Understanding the importance of data and the value of the cloud, BNY Mellon chose Microsoft to deliver a platform that moved its clients beyond business as usual. To deliver a more nimble data management system, more accessible ways to generate insights and analysis, and take advantage of the flexibility and scalability of the cloud, BNY Mellon turned to Microsoft Azure as the foundation for its public cloud-native data management platform.

BNY Mellon offers investment management, wealth management, and investment services to individuals and institutions around the world. As of December 31, 2021, the bank had \$2.4 trillion assets under management (AUM) and \$46.7 trillion under custody or administration. Combining software and data expertise with core banking and financial services, BNY Mellon manages 110 million gigabytes of global financial data.

An early leader in understanding the significance of data in powering the entire investment process, BNY Mellon has been a pioneer in providing digital and data solutions across the investment lifecycle. Committed to anticipating its clients' changing data needs, the bank has delivered investment data technology and services at scale for more than 25 years. In fact, BNY Mellon's team of data and analytics experts help firms around the globe manage data associated with approximately \$40 trillion in client assets.

As Charles Teschner, Global Head of Data and Analytics Solutions at BNY Mellon, explains, "Traditionally, a bank was something that helped clients manage their investments and cash. Data used to be considered an input or a by-product. But actually, data is a tremendously strategic asset."

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Today, business teams want the ability to access and mine data for value in flexible ways that empower their decision-making and set their firms apart from the competition. Yet, as the demand for data intensifies and the speed needed for consuming it accelerates, this objective can be exceptionally difficult to achieve. In fact, a BNY Mellon study of 200 asset managers explains that the three most common obstacles to extracting value from data are the complexity of today's data, the inadequacies of legacy data platforms, and the lack of tools for analyzing unstructured data.[i]

Having foreseen some of these obstacles, BNY Mellon was determined to build a solution that could seamlessly integrate a global ecosystem of data providers. It wanted a platform to empower an array of business users with insights and analyses. It also knew such a platform would need the elasticity and flexibility inherent to cloud solutions.

Delivering on data demands with Azure-based solutions

Laser-focused on providing a scalable solution for delivering data and analytics capabilities, BNY Mellon chose [Microsoft Azure](https://azure.microsoft.com/) (<https://azure.microsoft.com/>), as the foundation for Data Vault, its integrated data management and analytics platform.

Able to consume both structured and unstructured data, Data Vault boasts a seamless integration with data vendors, third-party providers and other BNY Mellon technologies, such as its award-winning Eagle products that have helped clients centralize and efficiently manage their investment data for over two decades. In simple terms, Data Vault helps clients pull and blend huge amounts of data from multiple locations, anytime and anywhere they need it. In addition, using the power of Microsoft Azure, they can do so with speed and agility.

“Collaborating with Microsoft gives us access to best-in-class technology and the scalability to manage escalating volumes of data,” says Teschner. “It serves as the foundation on which we can rapidly create solutions that address clients’ evolving needs.”

Solving data management at scale

Ultimately, solving data management at scale frees up time for activities that drive business growth. When personnel across an organization can easily onboard and model large volumes of quality data, they can glean actionable insights much more quickly.

By integrating the computing speed and scalable storage of Microsoft Azure with machine learning principles, Data Vault offers access to flexible, consolidated data sets, giving business users the ability to experiment with data in ways that used to be only within the reach of data scientists and coding experts. Specifically, Data Vault’s data fabric connects high-quality data across entire organizations, helping clients extract insights across business disciplines.

According to Steven Taylor, Head of BNY Mellon Data Management Platforms [ii], “Together the cloud and our modern data and analytics platform enable firms to shift thinking from operational to analytical. Our clients want tools to experiment with their data sets, so speed becomes incredibly important. Our collaboration with Microsoft empowers this process, and we can capitalize on a great platform like Azure to move faster and focus on differentiated capabilities that help our industry.”

Unlocking the power of data

The benefits derived from Data Vault are multiplied by its ability to add value with integrated data management capabilities, APIs, and applications that respond to the evolving market, client, and regulatory landscapes. Open, flexible, and modular, Data Vault helps

address asset managers' needs— allowing them to break down siloes and simplify their existing data landscape. And, with Microsoft Azure's broad capabilities underpinning BNY Mellon's platform, financial organizations can unlock the power of data to improve and optimize more of their investment lifecycle.

As Taylor explains, "Today's tech-savvy, data-hungry business users want access to a larger ecosystem of data, they want to leverage that data to solve a business problem, and they want the flexibility to use their tools of choice when consuming data. That's exactly what we're helping clients accomplish right now."

Using BNY Mellon's Azure-based platform, financial organizations can investigate data from a single enterprise source utilizing either their tools of choice or BNY Mellon's Data Studio, a low-code environment developed for business users. Data Studio is designed to help firms explore and experiment with data and then share results that business teams can understand and implement.

In addition to Data Studio, BNY Mellon has developed trailblazing applications as part of the Data Vault ecosystem to address client needs across specific areas. One area of importance to investors is the incorporation of environmental, social, and governance (ESG) preferences into portfolio construction, management, and monitoring—all of which are supported by BNY Mellon ESG Data Analytics. With patent-pending crowdsourcing capabilities, what-if analyses, and dynamic mapping with natural language processing, ESG Data Analytics helps users make sense of the market's variable and sometimes contradictory ESG data. By using the application to take the so-called "pulse of the market," users across a financial organization are better equipped to make informed, transparent investment decisions that are fundamental to delivering value to investors and stakeholders.

The expanding collaboration between Microsoft and BNY Mellon is a two-way street for innovation in financial services. As BNY Mellon



continues to explore groundbreaking ways to help clients unlock the power of their data, it will continue to work closely with Microsoft.

“Our cloud journey continues,” says Roman Regelman, CEO of Asset Servicing and Head of Digital at BNY Mellon. “The opportunity for leveraging data and AI is limitless, and Microsoft is a critical collaborator with us on that journey. For us, that combination becomes a multiplier effect: our clients, relationships, and knowledge of financial markets multiplied by Microsoft technology. That creates powerful and profitable results.”

[i] <https://www.bnymellon.com/us/en/insights/asset-management-transformation-is-already-here/survey-research-series-overview.html>

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[ii] <https://www.bnymellon.com/us/en/solutions/data-and-analytics/data-vault.html>

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