



▶ Case Study: Dow Jones

DOW JONES' MOVE TO AWS WITH COMMVAULT

 | DOW JONES

Industry
Data, News and Analytics

Corporate Headquarters
New York, New York

www.dowjones.com



ABOUT DOW JONES

Founded in 1882, Dow Jones began as a niche news agency and has since become a worldwide news and information source that encapsulates multiple brands including The Wall Street Journal, Dow Jones Newswires, Factiva, Barron's MarketWatch and Financial News. Investors use Dow Jones to learn about what's happening in financial markets throughout the world. The company's mission, according to Shaown Nandi, Chief Information Officer is "to provide innovative technology, advanced data feeds, integrated solutions, expert research, and customizable apps and delivery systems to bring the information that matters the most to customers when and where they need it".

The diverse portfolio of brands within Dow Jones present different customer needs, content generation, and approaches to business. The Wall Street Journal is Dow Jones' flagship publication, with over one million digital subscribers. Factiva, a business information and research tool, ingests over 50,000 articles daily from over 33,000 information sources. It then takes the data it has analyzed and pushes it out to banks, consulting firms, and traders to make informed decision on the financial market.

THE CHALLENGE

In 2014, Dow Jones' parent company News Corp North America laid out goals to move 75% of all compute to the public cloud and reduce 50 data centers globally down to six. At the time, Dow Jones had over 30,000 tapes in off-site storage, containing over five petabytes of data. Their backup and disaster recovery strategy relied on a disaster recovery data center 30 miles away from their operations in New Jersey, yielding large offsite storage costs and unacceptable Service Level Agreements (SLAs) for the recovery of mission-critical applications. Moreover, the disaster recovery data center was susceptible to natural disaster. With hurricane potential a real threat on the East Coast, the firm needed a better plan to manage data outside of their primary and disaster recovery data centers in New Jersey.

THE RESULTS

Dow Jones chose to move data to the Amazon AWS Cloud – and to use Commvault for secure data migration, backup, management and recovery. As of December 2016, Dow Jones has moved 58% of its compute to the AWS Cloud and has seen a 400% increase in AWS instances year-over-year. During that same time frame, the company has been able to migrate over 4,000 instances to the public cloud and reduced data center power consumption below 2005 levels.

With automation and orchestration for data management across cloud and on-premises storage, the Commvault Data Platform has enabled development teams to focus on their core business and provide better resiliency to their stewardship. In case of natural disaster, Commvault and AWS ensure that their data is protected and available.

After moving to the cloud with Commvault and AWS, Dow Jones has reduced monthly expenditures on DR operations by 50% or more. In addition to the cost reduction, they have actually improved recovery times from four days down to four hours for key applications.

► WHY COMMVAULT?

Dow Jones has many different brands operating underneath it. With different brands serving different functions, it is important to maintain differentiation between them, while being able to discern data from different sources. As of 2016, Dow Jones had over 50% of its infrastructure running in the public cloud, yet there was still 5PB of data on-premises. It was still paying for offsite storage, and SLAs for the data in off-site data centers were too slow. Commvault simplifies hybrid cloud management by providing a single interface for complete data management of on-premises and public cloud assets.

Unlike most backup and recovery solutions, Commvault offers a single data platform solution for all backup and recovery needs; as opposed to having several point solutions for each use case (i.e. Specific solutions for storage, backup, recovery, etc.). From a single platform, Commvault offers comprehensive data management capabilities including data backup, recovery, management and e-discovery, capabilities that are tightly integrated with Amazon cloud storage. It is built from scratch; meaning all storage, backup, and disaster recovery functions communicate with each other as one solution, regardless of where the data resides. This enables Dow Jones to consistently manage their hybrid cloud environment and to improve resiliency by writing backups directly to Amazon S3, Amazon Standard-Infrequent Access (Standard-IA), or Glacier.

► WHY AWS?

Smaller news startups, like The Huffington Post and BuzzFeed were developing content and applications faster than Dow Jones' subsidiaries. The AWS Cloud provided Dow Jones with the agility the development

Cloud Integration with Amazon Web Services

Commvault software provides a single data management platform that seamlessly integrates with Amazon S3 and Glacier storage services for long-term data retention.

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“Now we’re in the process of putting together a comprehensive DR strategy with Commvault and AWS infrastructure and can protect our data that is in the legacy data centers and those running in the cloud.”

SHAOWN NANDI

Chief Information Officer and Head of Technology, Dow Jones

teams needed to improve time to market for its products, making Dow Jones more competitive with the younger startup competitors. To meet the goal of reducing from 50 data centers to 6 worldwide, Dow Jones needed to move 10,000 compute instances, virtual and physical, into the public cloud. The AWS infrastructure provided the scale and flexibility needed to do so, and Dow Jones estimated it could save them \$100 million annually. The compute capacity and automated nature of AWS offerings allowed the engineering team to focus on building applications to deliver the best possible customer experience for online subscribers.

“We needed our developers focused on the innovative technology that makes Dow Jones unique, not on running data centers”

SHAOWN NANDI
Chief Information Officer and Head of
Technology, Dow Jones

ABOUT AWS

For 10 years, Amazon Web Services has been the world’s most comprehensive and broadly adopted cloud platform. AWS offers over 90 fully featured services for compute, storage, databases, analytics, mobile, Internet of Things (IoT) and enterprise applications from 42 Availability Zones (AZs) across 16 geographic regions in the U.S., Australia, Brazil, Canada, China, Germany, India, Ireland, Japan, Korea, Singapore, and the UK. AWS services are trusted by millions of active customers around the world monthly — including the fastest growing startups, largest enterprises, and leading government agencies — to power their infrastructure, make them more agile, and lower costs. To learn more about AWS, visit aws.amazon.com.

ABOUT COMMVAULT

Commvault is the only data management platform to move, manage and use data across on-premises and cloud locations — the new hybrid IT. Commvault offers a comprehensive data management platform

for managing data across files, applications, databases, hypervisors, and clouds. From a single platform, Commvault includes comprehensive capabilities for data backup, recovery, management and e-discovery, tightly integrated with today’s leading cloud providers. With solutions and services delivered directly and through a worldwide network of partners and service providers, Commvault solutions comprise one of the industry’s leading portfolios in data protection and recovery, cloud, virtualization, archive, file sync and share. Commvault has earned accolades from customers and third party influencers for its technology vision, innovation, and execution as an independent and trusted expert. Commvault’s sole focus on data management has led to adoption by companies of all sizes, in all industries, and for solutions deployed on-premises, across mobile platforms, to and from the cloud, and provided as-a-service.

▶ To learn more about the benefits of Commvault software on AWS, and how to simplify & automate backup of your VMs, applications, and datasets on the AWS Cloud, visit commvault.com/aws.

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