

WANDISCO FUSION[®] MANUFACTURING

Intrepid acceleration of design innovation

Reducing complexity and risk of data movement – at rest and in motion – to the cloud

BUSINESS OBJECTIVE

A large graphics chip maker wanted to massively accelerate its design innovation. How could it migrate and manage more than 100 TB of critical data to take advantage of cloud-based analytics?

SCENARIO

- The company wanted to cut operational costs by moving to the cloud.
- Instead of building a second on-premises Hortonworks cluster, the customer chose MS Azure Data Lake Storage and Azure HDInsight as its preferred platform, looking to exploit its machine learning and artificial intelligence capabilities.
- Connection capacity and latency challenges for around 100 TB of on-premises data presented significantly limiting factors for the proposed cloud migration.
- The company could not afford extended - or even any - downtime during the migration, and could not risk systems outage or data loss if the migration failed.

CHALLENGES

- How could the company move to the cloud without disrupting ongoing, critical business operations?
- How could it account for the the delta between the data captured at a point in time and the subsequent source data changes made during the migration?
- What was the best achievable RTO for critical systems in the event of an outage? the majority from on-premises infrastructure, combined with data already located in Azure.

SOLUTION

- Deploy WANdisco Fusion to create a LiveData platform to create a point-in-time copy of Hadoop data onto an Azure Data Box (a special-purpose Microsoft device) for physical transfer to Microsoft Azure ADLS.
- Build a LiveData connection to continuously synchronize ongoing changes of the on-premises Hadoop data to Hadoop on Azure, with WANdisco Fusion automatically and seamlessly managing updated data.
- Captured and coordinated data from and to multiple storage architectures.

ENVIRONMENT, TECHNOLOGY, AND TOOLS

- Spark
- Oozi
- HBase
- Hortonworks HDP
- Azure Data Services
- Azure Data Box — a bulk data transfer physical device
- WANdisco Fusion

CAPABILITIES INTRODUCED

LiveData platform provides realtime data replication for high availability and near-zero RPO and RTO disaster recovery.



BENEFITS & OUTCOMES

- Migrated 100 TB and successfully coordinated data between the three platforms — on-premises Hortonworks, Azure Data Box, and Azure HDInsight.
- Multiple sources of data ingested will be coordinated with ADLS to create the near-zero RTO disaster recovery capability.
- Enabled multi-cloud environment replication for future use, offering the opportunity to switch to cloud as production and on-premises as backup.

*"Migration is easier and faster
– and more elegant – with
WANdisco Fusion, plus we have
enabled multi-cloud operations
for our future journey."*

–Big Data Hadoop Architect

About WANdisco Fusion and a LiveData Platform

Ensuring that your application data stays accurate and consistent across all your application environments is complex, especially in the cloud. But it doesn't have to be.

WANdisco Fusion gives you LiveData: data consistency and accessibility in any environment. Our enterprise-class software removes complexity and risk, and works across on-premises, cloud and hybrid deployments.

With LiveData, your data is guaranteed to be available, accurate, and protected — anytime, anywhere, spanning platforms and locations, even for data changing at petabyte scale.

Embrace multi-cloud architectures. Simplify your move to the cloud. Increase your data resiliency and ensure your business continuity.

About WANdisco

WANdisco is shaping the future of data infrastructure with its groundbreaking LiveData platform, enabling companies to finally put all their data to work for the business — all the time, at any scale. Only WANdisco makes data always available, always accurate, and always protected, delivering hyperscale economics to support exponential data growth with the same IT budget. With significant OEM relationships with IBM and Dell EMC and go-to-market partnerships with Amazon Web Services, Cisco, Microsoft Azure, Google Cloud, Hewlett Packard Enterprise, Oracle and other industry titans — as well as hundreds of customers among the Global 2000 — WANdisco (LSE:WAND) is igniting a movement worldwide.

Talk to one of our specialists today
EMEA +44 114 303 9985
APAC +61 2 8211 0620
ALL OTHER +1 925 380 1728
US TOLL FREE +1 877 926 3472

5000 Executive Parkway, Suite 270
San Ramon, California 94583
Copyright © 2018 WANdisco, Inc. All rights reserved.

About WANdisco Fusion wandisco.com

Email partnermarketing@wandisco.com

Join us online to access our extensive resource library and view our webinars

View our library of film content
youtube.com/user/wandisco1

Follow us to stay in touch [@WANdisco](https://twitter.com/WANdisco)