Storage Migration Using AWS DataSync for a Leading Airline Industry

About the Client

The client is a leading public listed Australian airline, a leader in providing scheduled flight services to over 10 destinations inside and outside Australia from its hub in Melbourne.

At a **Glance**

INDUSTRY | Airline

LOCATION | Australia

USE CASE

The client is a leader in the airline industry needed help to preserve data on distinct location like the AWS cloud to configure that data will be available in case of primary storage down.

CHALLENGES

Client had storage in terms of TB and DR infrastructure was a challenge, plus cost management was exceeding the target.

Business Challenges

❶ The client has SAN array of 30TB data used for various business purposes.

❷ Building the DR site was a challenge when it came to buying, upgrading and maintaining the storage on the remote location. The maintenance cost kept rising over a 3 year period. Also, occasionally the DR performance was not satisfactory to the support business challenges.
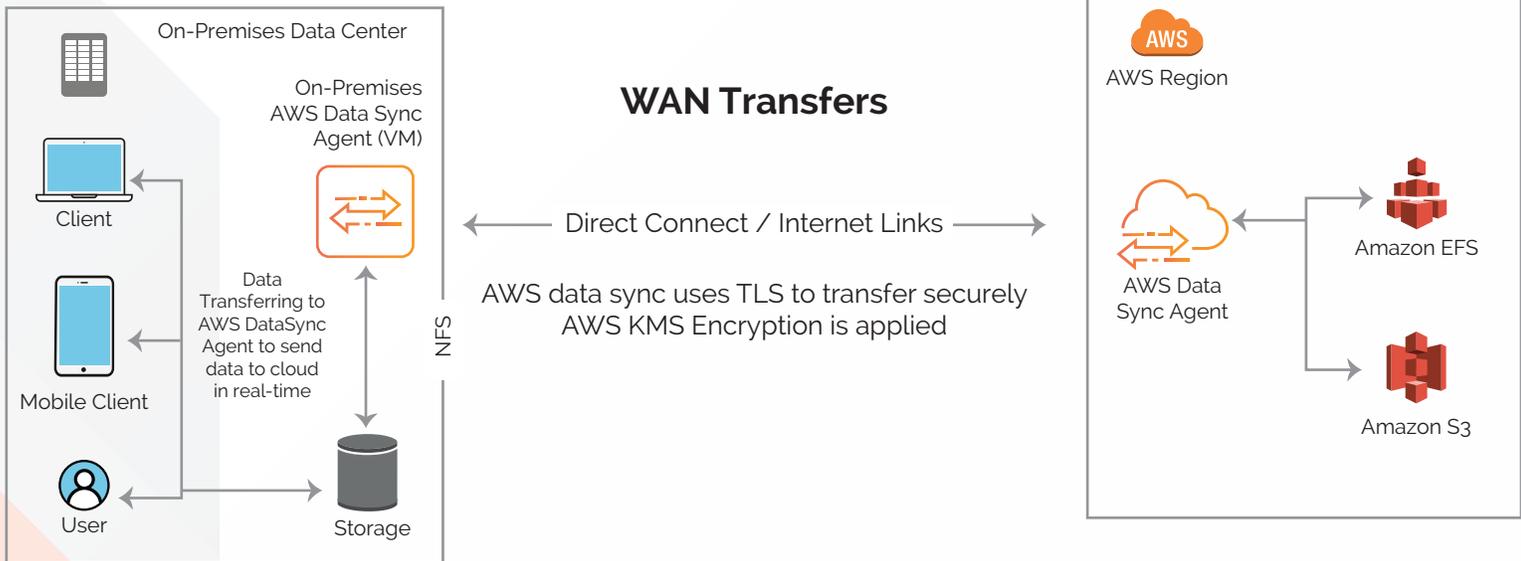
Our Approach

Royal Cyber AWS architects proposed a solution that helped the client to resolve all storage-based DR issues. The below technologies played a key role:

❶ Cloud-based low-cost on-demand storage for objects using S3.

❷ Cloud-based storage DR site using AWS DataSync.

The solution included the configuration of AWS DataSync volume on DR-site, along with AWS DataSync agent installation on-premise. The data from the primary SAN kept on synching in real-time that made applications switch towards DR within seconds, which still had the most recent data. The performance and industry benchmarks were achieved by thorough QA testing.

Illustrative Design

On-Premises Data Center

On-Premises AWS Data Sync Agent (VM)

Client

Mobile Client

User

Data Transferring to AWS DataSync Agent to send data to cloud in real-time

NFS

Storage

WAN Transfers

Direct Connect / Internet Links

AWS data sync uses TLS to transfer securely
AWS KMS Encryption is applied

AWS

AWS Region

AWS Data Sync Agent

Amazon EFS

Amazon S3

RESULTS

The Client gained the following benefits:

1. No downtime & single point of failure once moved to AWS cloud.

2. A hassle-free data storage backup solution in the cloud.

3. Easy to deploy & manage.

4. Encrypted data on transit between on-site & AWS storage volume (S3/Amazon EFS).

SOLUTION

Royal Cyber's team migrated the clients on-premise storage to AWS Cloud using DataSync, establishing a DR site for storage with the latest database available.

Key Takeaways

› 80% improvement in efficiency

› Speed – just in time provisioning

› Increased consistency & accuracy

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Simplifying IT for Customers & Partners

Royal Cyber Inc. Headquartered in Naperville, IL is a leading software organization that provides services ranging from application development and deployment to training and consultancy. We commenced the operations in the year 2002 as a specialized Technology provider striding in as a software deployment service provider, assisting clients to meet the standards and demands of doing business in the rapidly changing marketplace. Today we stand tall as a **One Stop Shop for all your IT needs.**