

CYGNATURE

by Cygnet Infotech

CASE STUDY

Migrating On Premise MS SQL Database to AWS Cloud using DMS

Access.io enabled Cygnet Infotech to seamlessly migrate the live Databases for Cygnature application to AWS Cloud.

ABOUT AXCESS.IO

We offer Cloud Transformation, DevOps and SRE Automation, and 24 X 7 Manage Services to improve the agility and velocity of your business.

We are a cloud native services company with clients in multiple geographies and industries We specialize in cloud transformation, DevOps automation, managed services and cloud native application development. With offices in USA and India, we empower organizations to transform and secure their IT infrastructure, scale up their operations, and manage customer workloads. from our ISO 27000-certified Global Network Operations Centers (GNOC).

ABOUT CYGNATURE

Cygnature by Cygnet Infotech is a blockchain-based digital signing solution that securely authenticates signers and allows users to sign documents from anywhere, anytime using any device quickly.

EXECUTIVE SUMMARY

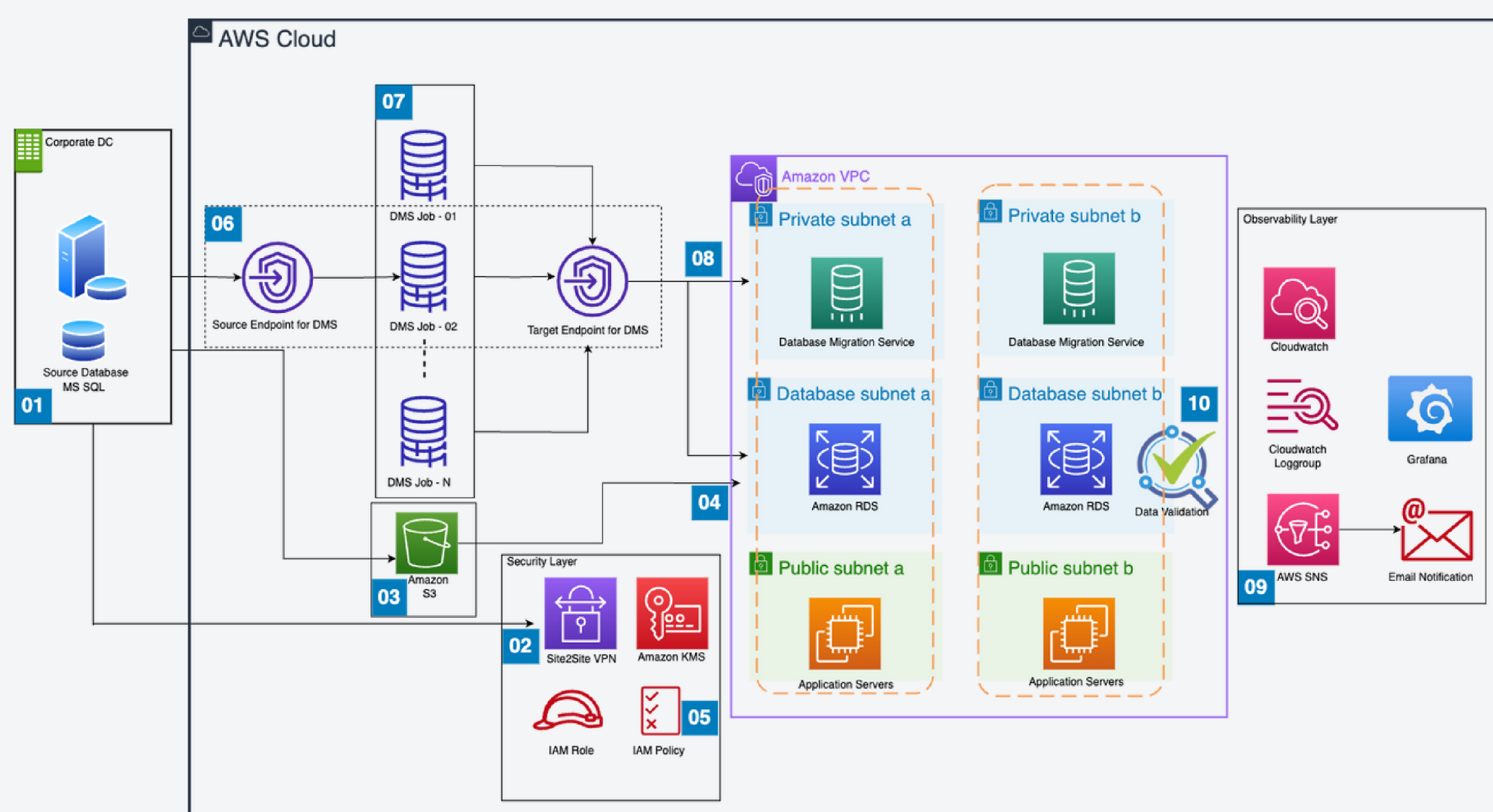
With Access.io's technology expertise and comprehensive assistance, Cygnet Infotech successfully migrated their Cygnature live application databases from their Datacenter to the AWS Cloud. Cygnet Infotech has adopted managed AWS Services wherever applicable for the integration, improvement and monitoring of the current stack.

THE CHALLENGE

Cygnit Infotech was looking to migrate one of their complex Application Databases to AWS. Migrating from Datacenter to Cloud is not easy or straightforward. Here are some of the challenges on their AWS Migration Journey:

- Encrypted SQL Database
- Security and compliance requirement
- Minimizing business downtime while maintaining data consistency

DATABASE MIGRATION SOLUTION



HIGHLIGHTS

Discovery

- Inventory
- As-is architecture

Solution

- Cloud optimized architecture
- Migration using AWS DMS
- Automated data validation

Simplified Maintenance

- Managed Database using RDS
- Simplified Monitoring of Databases

MIGRATION STAGES:

Stage 1

- SQL Server Database backup and restoration for initial data load.
- Take Backup from On-Premise SQL Server
- Storing the backup in S3 bucket
- Restoring the backup to the RDS

Stage 2

- Created AWS DMS replication instance.
- Set up source and target endpoints.
- Configured DMS task for continuous replication.
- Monitored task progress and logs.
- Validated replicated data using DMS and Manual approach
- Migrated application to AWS RDS.

THE BENEFITS



Reduced Downtime

- Parallel Processing
- Data Replication
- Enabling continuous access to data during migration



Data Validation and Error Handling

- Identify and address errors
- Detects anomalies, duplicates and missing data
- Data Cleansing



Data Security and Compliance

- Protect sensitive data
- Support Encryption
- Ensure Data Confidentiality and compliance