

Database Freedom — Cloud Databases

 synthesis



Database Freedom is a unique program designed to assist customers in migrating to AWS purpose-built databases by providing technical advice and migration support.

Synthesis can help assess your systems, recommend a migration path, and help you execute the migration to the cloud.

Data is the most valuable asset of any organisation. Companies need assurance that their data

infrastructure is robust enough to host their most valuable asset, and that they can access their data at any given time, in the cost effective and optimal way.

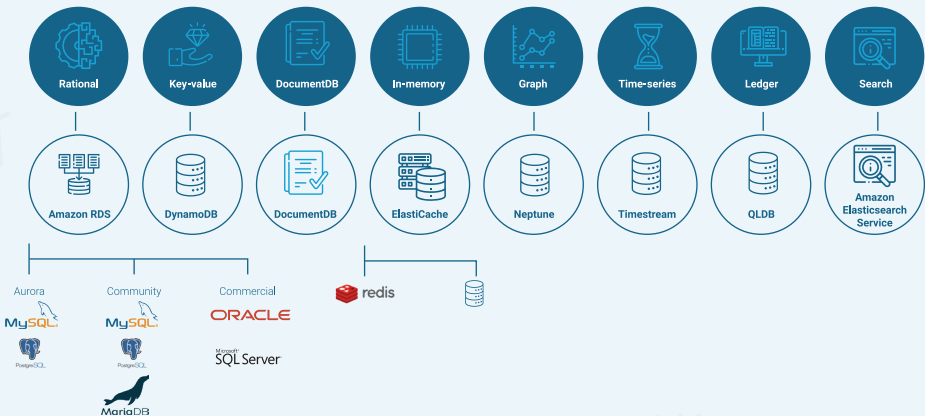
Databases and data have evolved over the years and organisations are looking for a fit for purpose data infrastructure to optimise their data investments. Having a partner like Synthesis enables you to be assured that all your cloud journey requirements will be catered for.

Cloud Databases

There are more than 15 AWS purpose-built databases that are optimal and cost-effective for any given workload. This gives applications the autonomy of running on the best fit for purpose databases to improve the performance, scalability, and reliability of the database infrastructure.

Synthesis can help you choose the right database for your workload. We will take the heavy lifting away enabling you to focus on delivering what matters to your business.

Purpose-built Databases



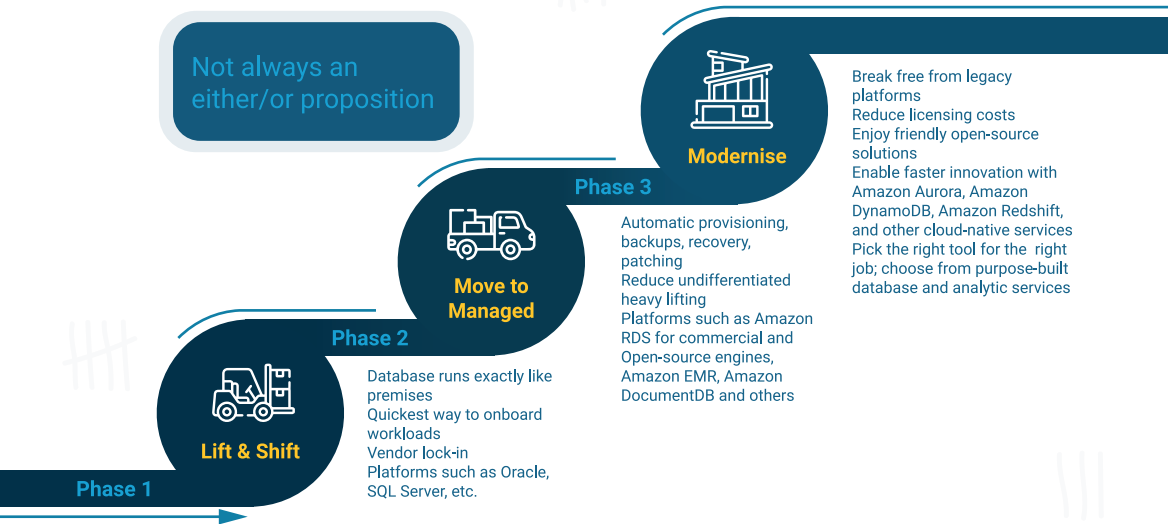
Cloud Databases

1. Database assessment phase

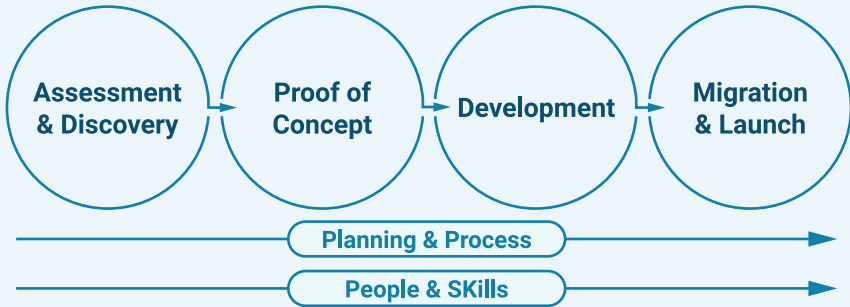
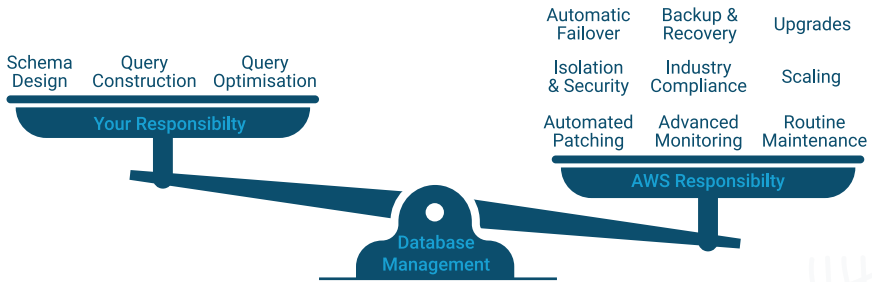
The first major consideration when choosing your database is your business objective. What is the strategic direction driving your organisation to change? As suggested in the 7 Rs of AWS, Synthesis considers whether you want to re-architect or re-factor an existing workload, move to a new platform to shed commercial license commitments, rehost your existing databases and data to the cloud without making any changes to take advantage of cloud capabilities or make the move now to a managed database strategy.

2. Database migration and modernisation phase

Synthesis will accelerate and support your migration from legacy systems to the cloud with tools built to help streamline data transfer, increase processing performance, and simplify connections between your databases and applications; reduce risk by maintaining your existing architectures while gaining the cost and operational efficiencies of the cloud; improve replication speed and accuracy; perform change data capture (CDC); and manage code deployment to experience the fastest and most trouble-free migration.



The Value of Database Modernisation



3. Database operation and optimisation.

When your database is in AWS, you must operate it in the cloud. You must ensure you are following the best practices for areas such as monitoring, alerting, backups, and high availability.

The optimising activities can address cost, performance, security, or resiliency concerns for your application stack. For example, you can use automatic scaling features to add more read replicas during peak hours and remove them during

off-peak hours to lower costs. You can also use several AWS services that integrate seamlessly with Amazon RDS databases. For example, you can easily direct database engine logs to Amazon CloudWatch Logs for analysis.

Once in the AWS Cloud, you can start optimising your application by taking advantage of many services and features that you can spin up with a few clicks.



Business Intelligent & Machine Learning

QuickSight



SageMaker

Analytics



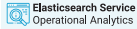
Redshift
Data
Warehousing



EMR
Hadoop ~
Spark



Athena
Interactive
Analytics

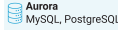


Elasticsearch Service
Operational Analytics



Kinesis Data Analytics
Real Time

Database



Aurora
MySQL, PostgreSQL



DynamoDB
Key Value



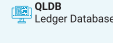
DocumentDB
Document



RDS
MySQL, PostgreSQL,
MariaDB, Oracle, SQL Server



ElasticCache
Redis,
Memcached



QLDB
Ledger Database



RDS on VMware



Neptune
Graph



Timestream
Time Series



Managed



Blockchain
Templates

Data Lake



S3/Glacier



Lake Formation
Data Lakes



Glue
ETL & Data Catalog

Data Movement

Database Migration Service | Snowball | Snowmobile | Kinesis Data Firehose | Kinesis Data Streams

You can innovate faster, because you can focus your highly valuable IT resources on developing applications that differentiate your business and transform your users' experiences, instead of focusing on the undifferentiated heavy lifting of managing infrastructure and data centers.

Are you SOLD???

Synthesis is your best partner to take you through this journey.

Contact us on marketing@synthesis.co.za to start the journey with you.



