



Getting started on AWS Database Migration Service

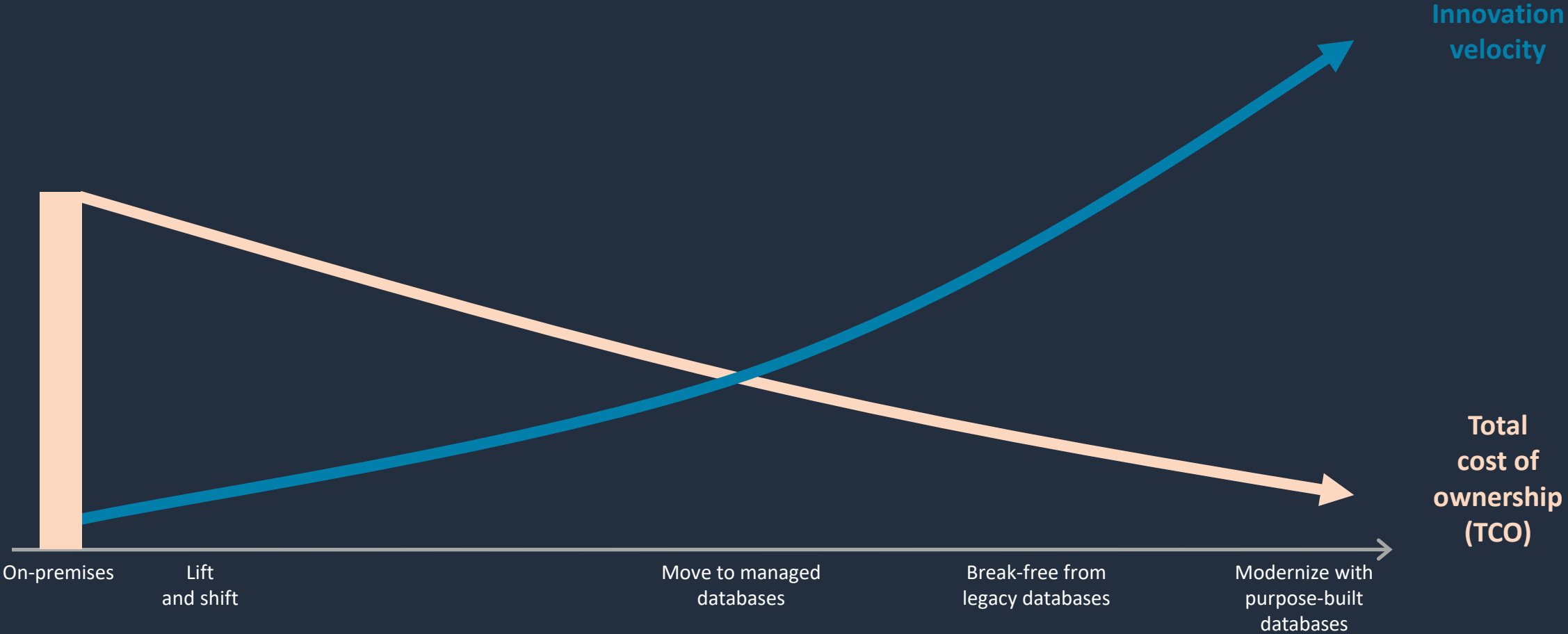
Trusted by customers globally to securely migrate
1M+ databases with minimal downtime

Agenda

- Why migrate?
- Customer modernization and migration journey
- Migration tools and services
- Introduction to AWS Database Migration Service (DMS)
- How to get started with DMS



Modernizing leads to maximum innovation velocity and optimal total cost of ownership



Typical database modernization journeys start here



**Relational
database
application**

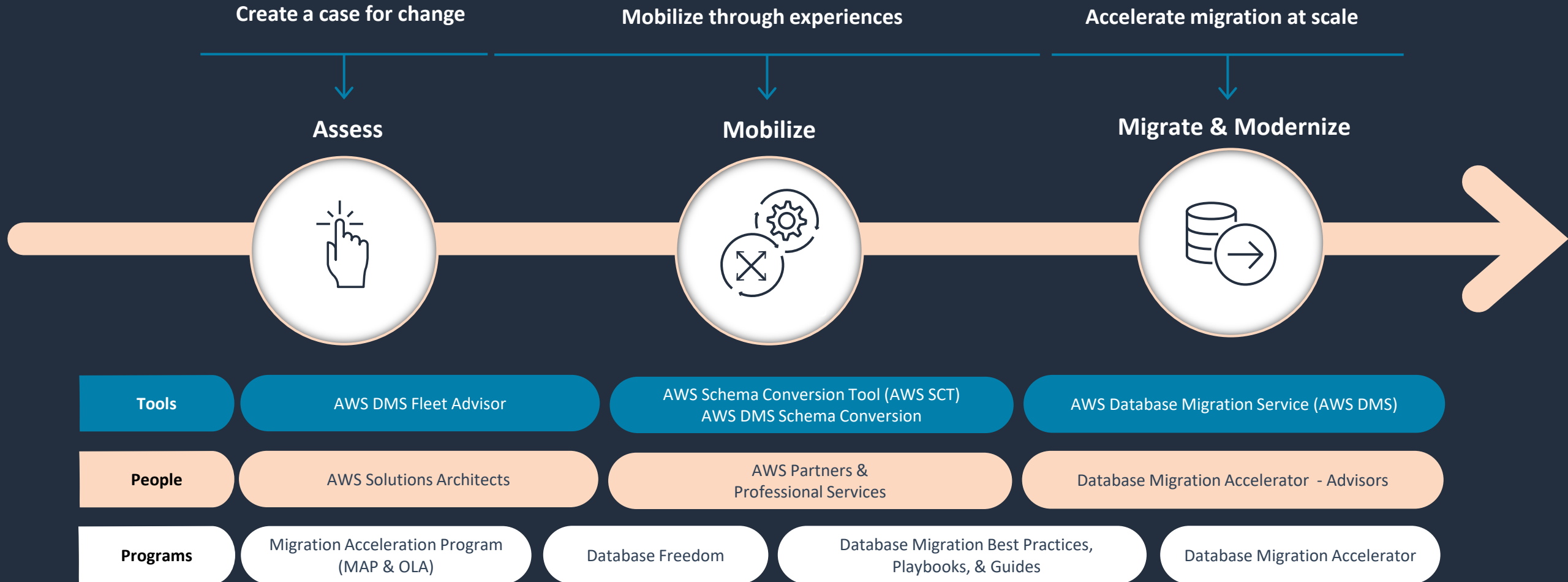
Existing business critical applications:

- Typically monolithic
- Made to fit relational databases
- Transactional in nature

...but also:

- Startup new applications
- Rapid prototyping, developed locally
- ORM/ODM heavy for agility

Migrations tools & services



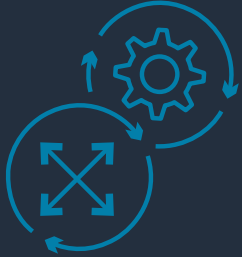
1M+ databases migrated using DMS





AWS Database Migration Service (AWS DMS)

Securely migrate your databases and data warehouses to AWS with ease and minimal downtime



Managed Migration

Automated migration service will discover, assess, convert and migrate your database and analytics workloads to AWS

Easy to use with a few clicks to start the process



Breadth of Options

Migrate data to and from most widely used commercial and open-source databases

Supports SQL, NoSQL, text-based and data warehouse targets



High availability

Multi-AZ option; highly resilient and self-healing with continuous replication and monitoring for minimal downtime.
















































Low Cost

Self-service tool

Only pay for compute resources and additional log storage used

DMS supported sources and targets

	RELATIONAL			NOSQL	ANALYTICS	DATA WAREHOUSE	
SOURCES	 Oracle	 SQL Server	 PostgreSQL	 MongoDB	 Amazon S3	 Oracle	 SQL Server
	 MySQL	 MariaDB	 Amazon Aurora	 Cassandra	 AWS Snowball	 Greenplum	 Teradata
	 SAP ASE	 IBM Db2 LUW	 IBM Db2 z/OS	 Amazon DocumentDB		 Vertica	 Azure Synapse
	 SQL Azure	 GCP MySQL	 Amazon RDS			 Netezza	
		 Amazon EC2					
TARGETS	 Oracle	 SQL Server	 PostgreSQL	 Amazon DynamoDB	 Amazon OpenSearch Service	 Amazon Redshift	
	 MySQL	 MariaDB	 Amazon Aurora	 Amazon DocumentDB	 Amazon Kinesis Data Streams		
	 SAP ASE	 Amazon EC2	 Amazon RDS	 Amazon Neptune	 Amazon S3		
	 DB2	 IBM Db2 LUW		 Amazon ElastiCache	 Amazon Managed Streaming for Kafka		
				 Amazon Timestream			



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AWS DMS Fleet Advisor

Automatically inventories and assesses on-premises database and analytics server fleets



Identify databases to migrate at scale with minimal effort



Save on costs associated with migration planning and migrating workloads

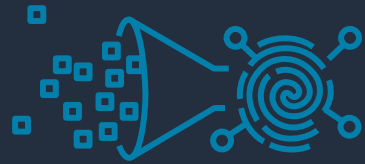


Build a migration plan in hours instead of weeks



AWS Schema Conversion Tool (AWS SCT)

Convert your commercial database and data warehouse schemas to AWS



Automated inventory and migration recommendations to accelerate migrations



Converts schema and code objects to target engine

Supports a wide variety of source and target databases and data warehouses

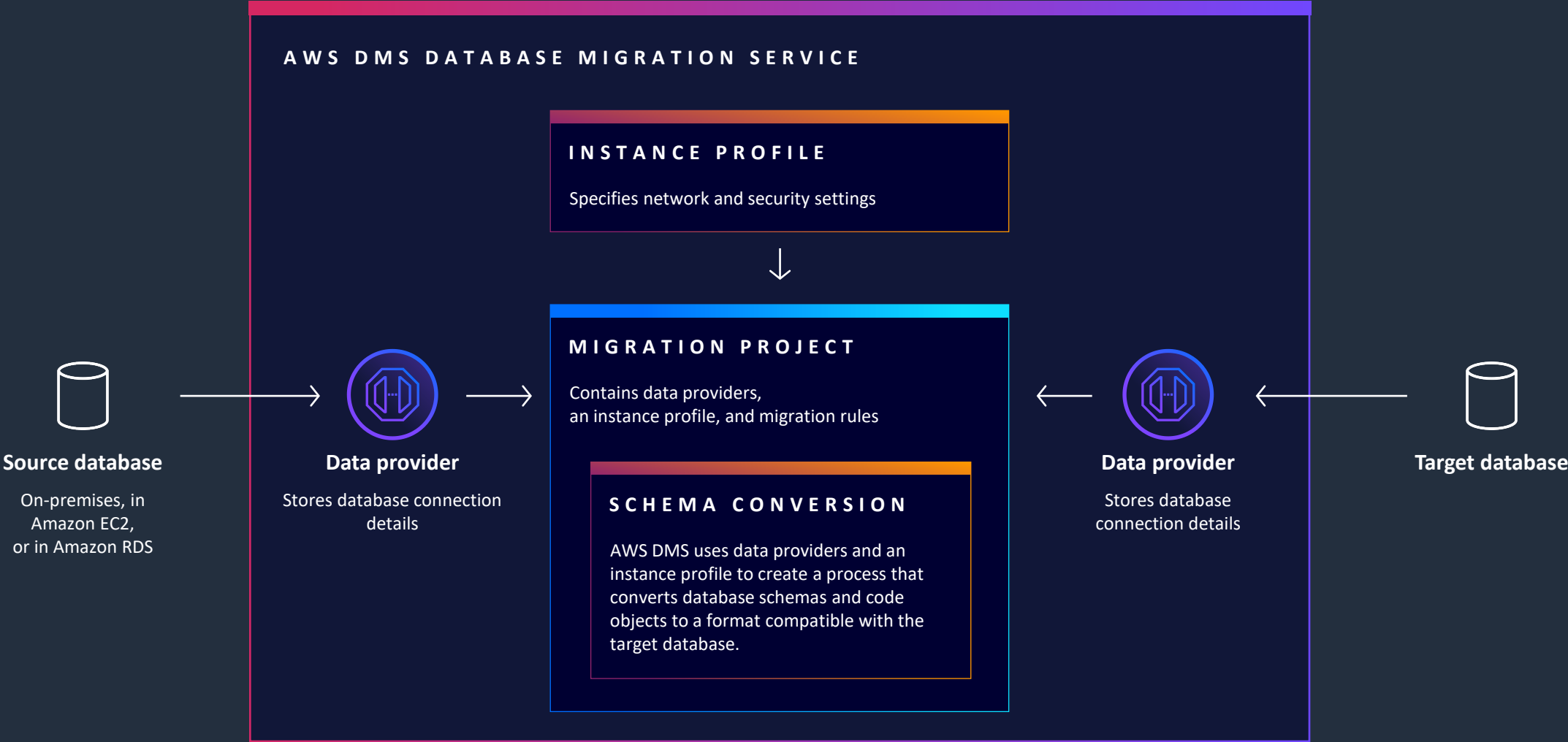


Extracts and migrates data warehouses to Redshift



AWS DMS Schema Conversion

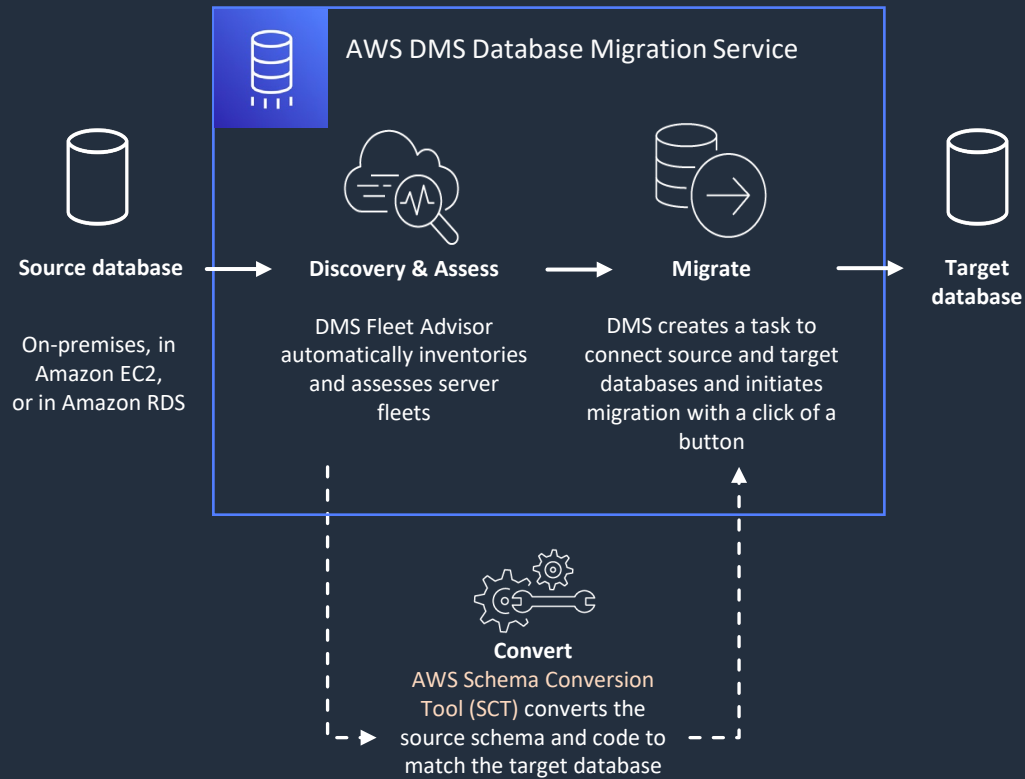
Schema assessment and conversion capabilities now available within DMS workflow



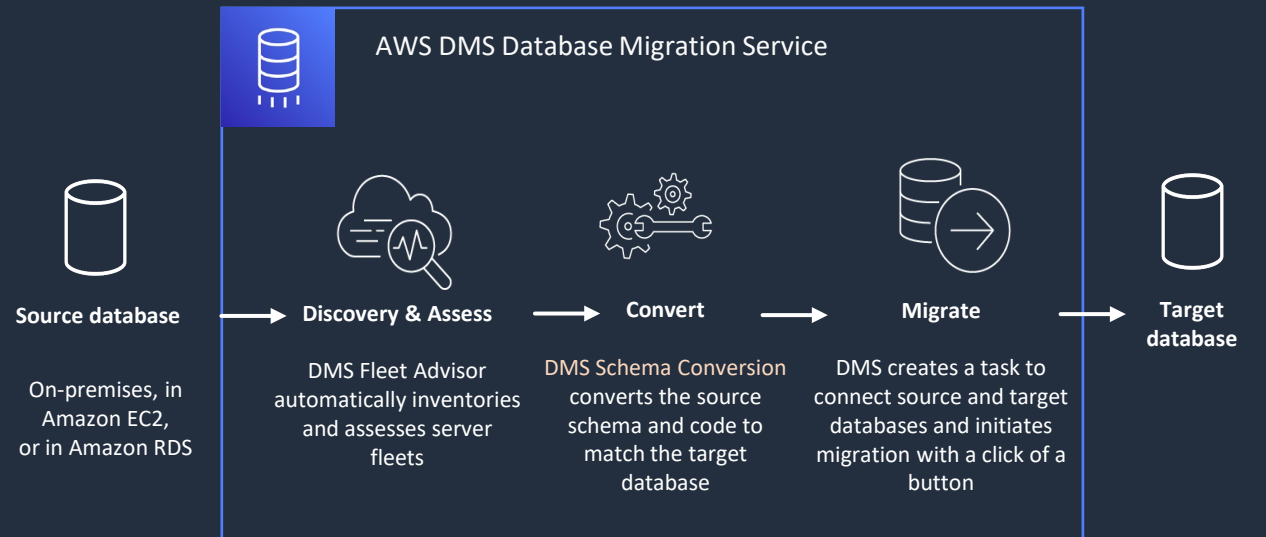
AWS SCT vs. AWS DMS Schema Conversion

Side-by-side comparison

AWS Schema Conversion Tool (AWS SCT)



AWS DMS Schema Conversion



AWS DMS Serverless

Automatically provisions, monitors, and scales migration resources



- **Auto-Provisioning & Scaling.** Reduces operation burden by removing the time consuming tasks of provisioning, monitoring, and scaling migration resources.
- **Cost Effective.** Removes the guesswork by determining the optimal capacity needed. Only pay for the capacity used.
- **Breadth of Services.** Supports popular database and analytics engines, as source and target endpoints.
- **Highly Secure.** Protects your data with minimal data loss and downtime.

Common customer use cases



Migrate

Migrate business-critical applications and data warehouses

Migrate from NoSQL to SQL, SQL to NoSQL, or NoSQL to NoSQL

Upgrade to a minor / major version

Consolidate and Archive data



Replicate

Create cross-region read replicas

Hydrate your data lakes / data warehouses

Replicate to streaming platform



Modernize

Move to AWS modern managed databases like Aurora, DynamoDB, and Redshift for faster innovation

Break free from legacy databases to save, grow and innovate

Samsung

SAMSUNG



Challenge

The Oracle database was expensive and difficult to maintain. Simple tasks required manual maintenance.

Solution

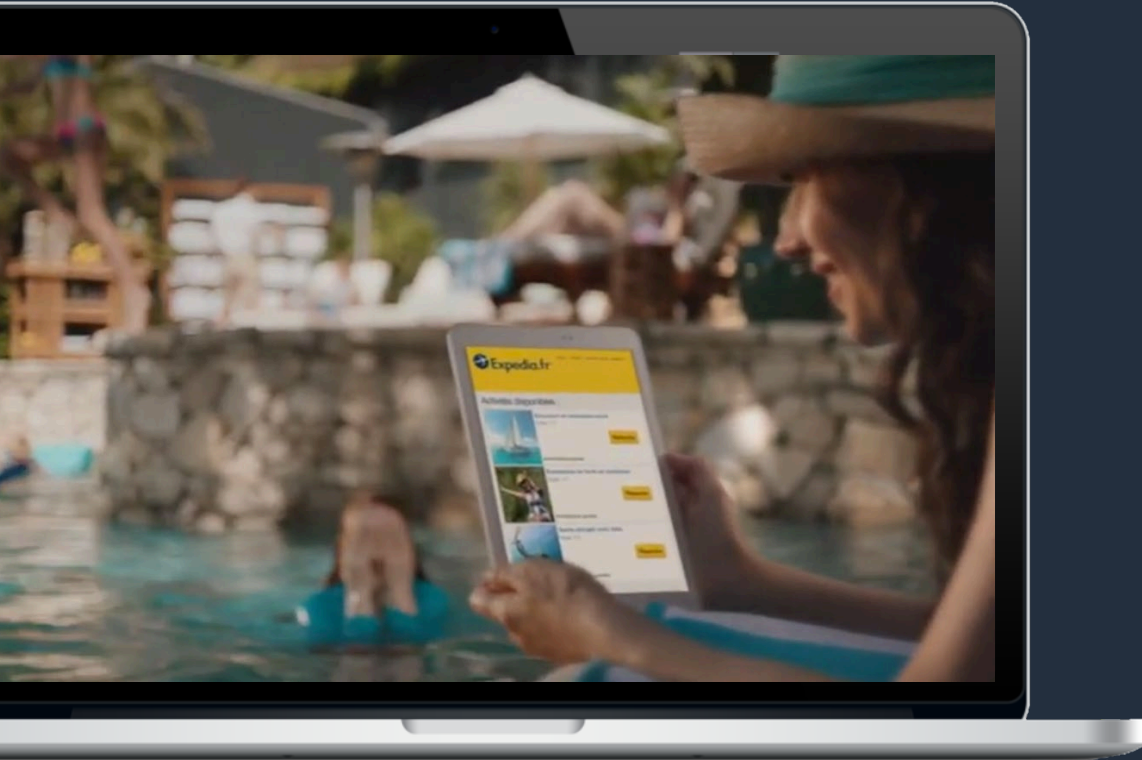
By migrating from Oracle to Amazon Aurora, Samsung achieved cost savings and decreased operational tasks, all without service disruption during the migration.

Result

“Our Oracle online migration in EU IDC to Amazon Aurora PostgreSQL completed in 22 weeks without service disruption. This success is unprecedented in Korea. The biggest win for us is cost savings, but we also have decreased our operational tasks, thanks to Aurora.”

- Go Byeong-ryul, Database Architect, Samsung Electronics





Challenge

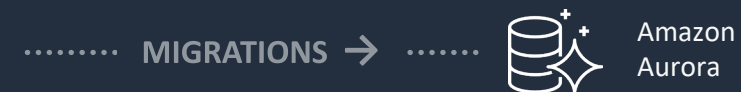
Expedia, Inc. is a leading online travel company, providing leisure and business travel to customers worldwide. As part of a corporate-wide initiative to focus its engineering teams on innovation rather than hardware procurement and datacenter management, Expedia continues to move its 20 years' worth of core-business workloads, digital properties, mobile applications, and legacy platforms largely from owned datacenters to AWS.

Solution

Expedia chose Amazon Aurora and used AWS Database Migration Service (DMS) to move legacy databases to the cloud.

Result

DMS simplified the migration to Aurora with monitoring and logging capabilities. With Aurora, Expedia is now able to handle more than 300 million updates per day at a rate of more than 20,000 writes per second.





Flexible ways to migrate

Get started with

Self-service migration

tools, including AWS SCT, AWS DMS, and AWS DMS Fleet Advisor, to enable a quick, secure migration

Get help from

Specialized database programs

for advice and migration support; additionally, Amazon DMA brings together tools and experts to help migrate at fixed prices

Get assistance with

AWS Professional Services

and certified AWS Migration Partners who can help enterprises migrate applications and legacy infrastructure to AWS securely

DMS Resources - Getting Started

- Visit our website: <https://aws.amazon.com/dms>
- Technical User Guide: <https://docs.aws.amazon.com/dms>
- Pricing: <https://aws.amazon.com/dms/pricing>
- Support: <https://forums.aws.amazon.com/forum.jspa?forumID=216>
- Get started with Free Tier: <https://aws.amazon.com/free>



Thank you!

Speaker name (pronouns)

Speaker contact info (email or
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