



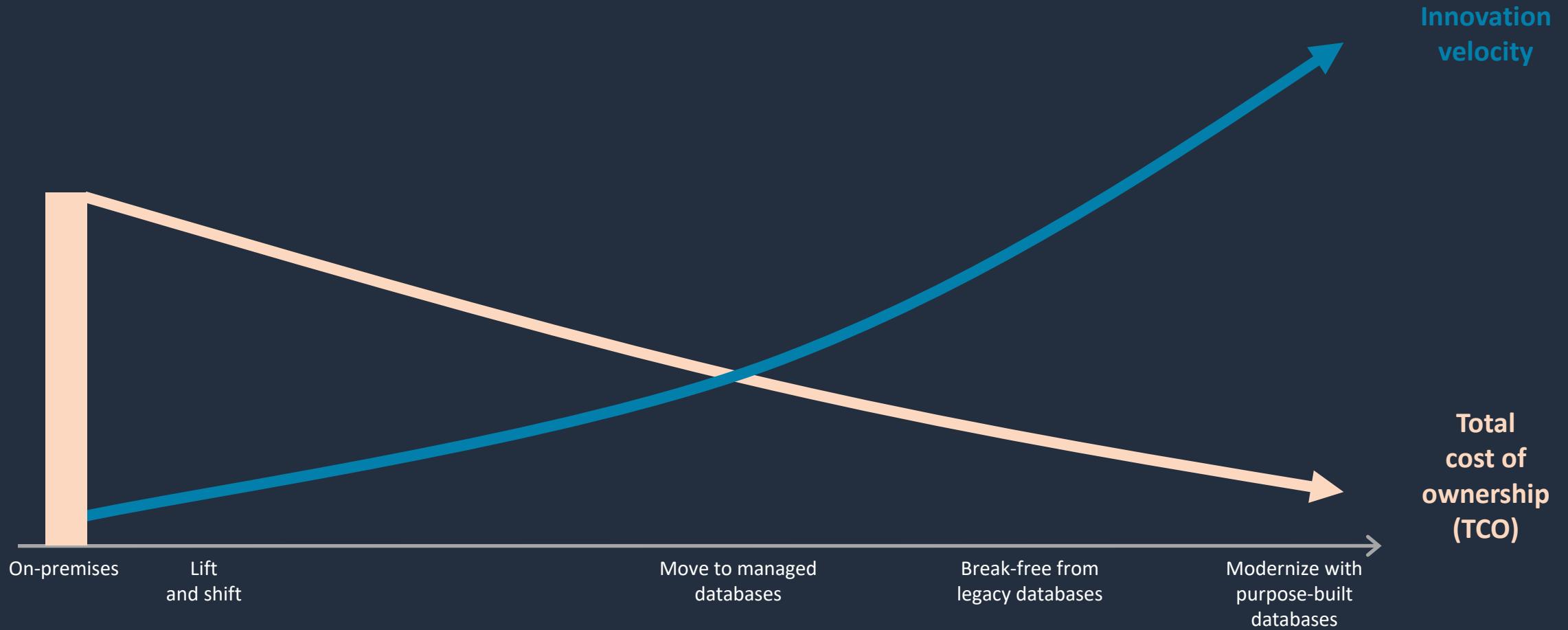
Getting started on AWS Database Migration Service

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

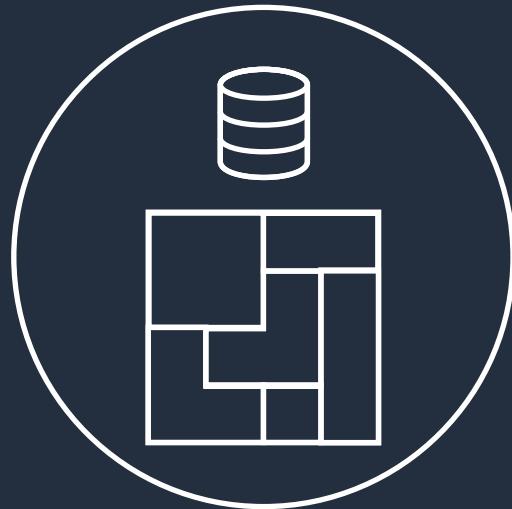
Agenda

- 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



Create a case for change

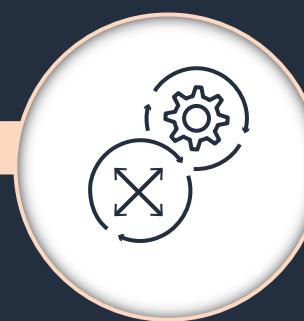
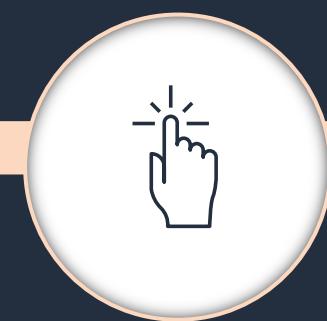
Mobilize through experiences

Accelerate migration at scale

Assess

Mobilize

Migrate & Modernize



Tools

AWS DMS Fleet Advisor

AWS Schema Conversion Tool (AWS SCT)
AWS DMS Schema Conversion

AWS Database Migration Service (AWS DMS)

People

AWS Solutions Architects

AWS Partners &
Professional Services

Database Migration Accelerator - Advisors

Programs

Migration Acceleration Program
(MAP & OLA)

Database Freedom

Database Migration Best Practices,
Playbooks, & Guides

Database Migration Accelerator





1M+ databases migrated using DMS

AUTODESK

SAMSUNG

CapitalOne

coursera

NTT docomo

3M



U.S. Department
of Veterans Affairs

zendesk

SK planet

DHí

Nielsen

Johnson & Johnson

pitney bowes

Amway



ancestry.com

ASU

Arizona State
University

gogo

asurion

dataxu

Cerner

COMCAST

ATLASSIAN

AMGEN

SIEMENS

GE

Expedia

Bristol-Myers Squibb

Liberty Mutual
INSURANCE

P Pearson

SCHOLASTIC

Agero

A

Adobe

ticketmaster

FT
FINANCIAL
TIMES



THOMSON REUTERS

Flipboard

Currencycloud

Globe

shaadi.com
The World's Largest Matrimonial Service

ORION
HEALTH



intuit

TWILIO
SendGrid

Meetup

fiverr

Wave
accounting



APPRISS

SysAid

gumgum

slack

PEGA

halodoc

Smile
Brands
Inc.

bazaarvoice

hotelbeds

verizon

oddity

Panasonic

SnappCar

yapstone

entradas.com

Sotheby's

Travelex
worldwide
money

CUPONATION

TOTANGO

aws



AWS Database Migration Service (AWS DMS)

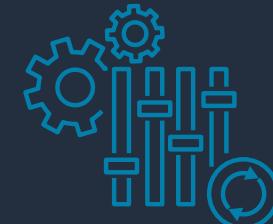
Securely migrate your databases and data warehouses to AWS with ease and minimal downtime



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	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	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

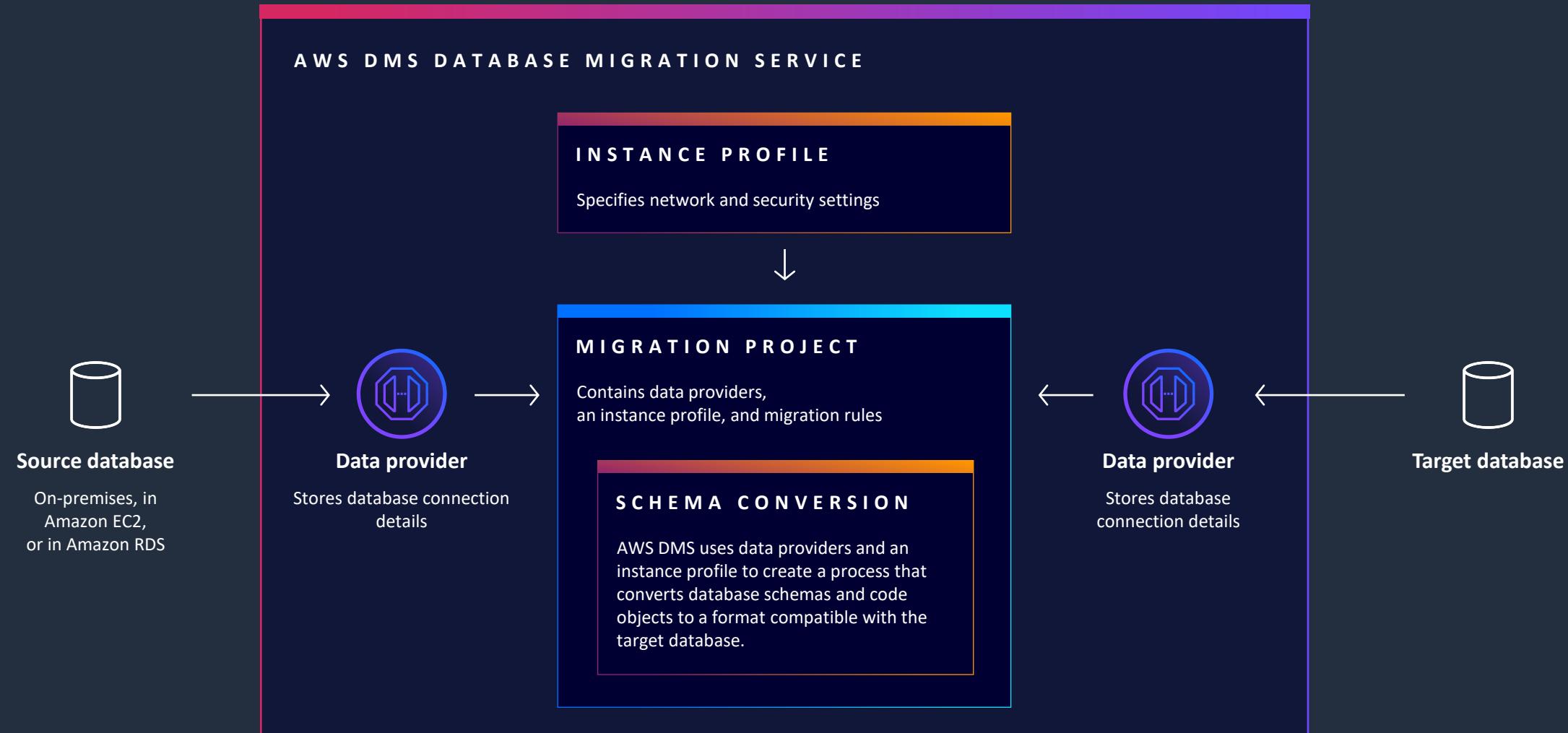


Extracts and migrates data warehouses to Redshift



AWS DMS Schema Conversion

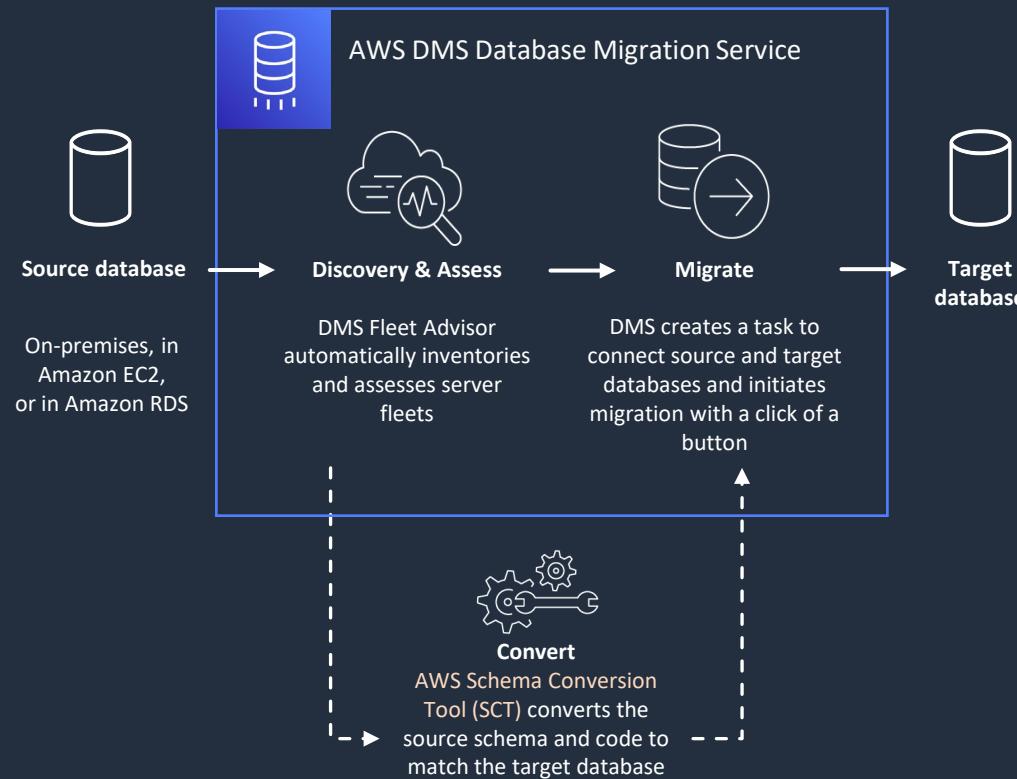
Schema assessment and conversion capabilities now available within DMS workflow



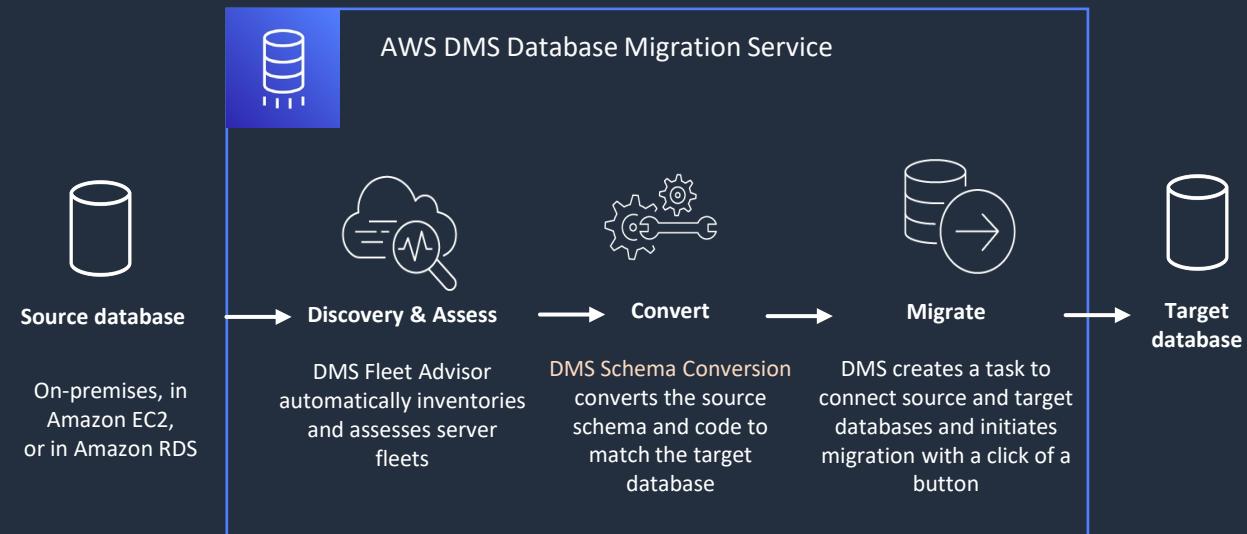
AWS SCT vs. AWS DMS Schema Conversion

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

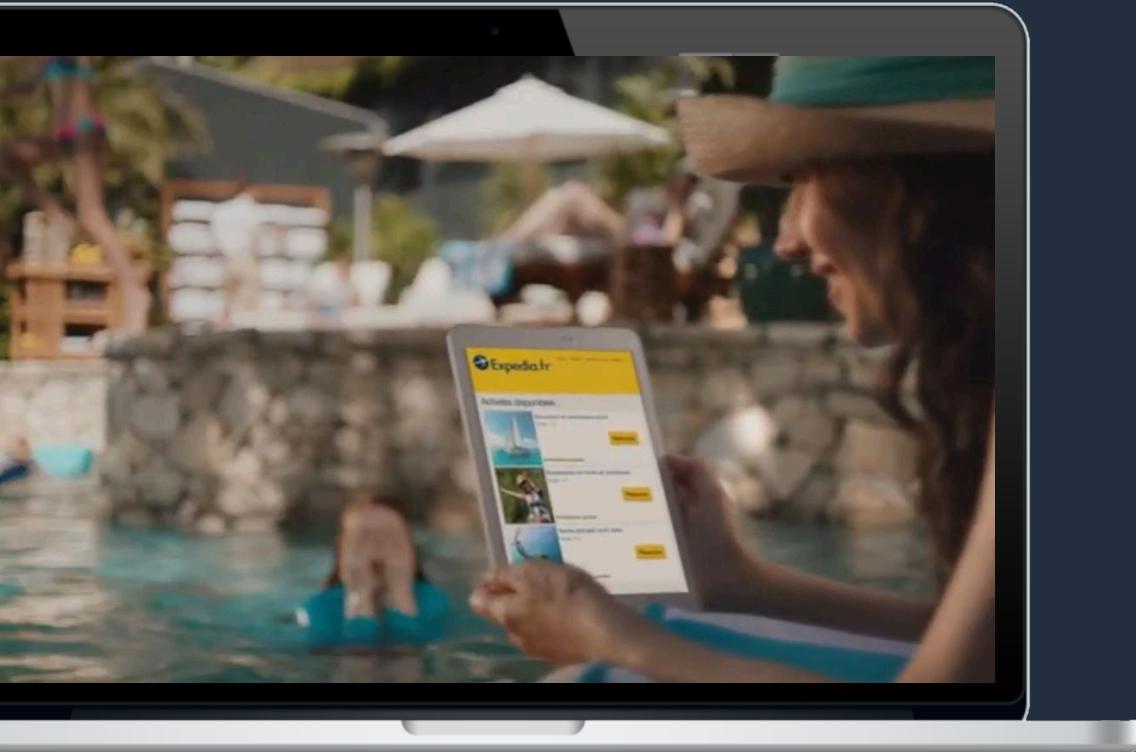
By migrating from Oracle to Amazon Aurora, Samsung achieved cost savings and decreased operational tasks, all without service disruption during the migration.

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 lodging 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.

..... MIGRATIONS →



Amazon
Aurora



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
socials)