



AWS ONLINE TECH TALK

# Getting Started with AWS DMS Schema Conversion

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# Agenda

What is AWS Database Migration Service

What is AWS DMS Schema Conversion

AWS DMS Schema Conversion Demo

# 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

# Migrations tools & services

Create a case for change

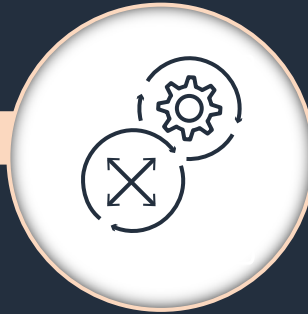
Mobilize through experiences

Accelerate migration at scale

Assess

Mobilize

Migrate & Modernize



Tools

AWS DMS Fleet Advisor

AWS Schema Conversion Tool (AWS SCT)

AWS 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

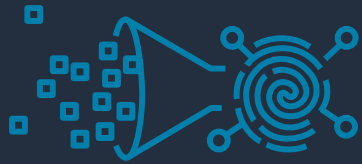
Database Migration Best Practices, Playbooks, & Guides

Data Lab

Database Migration Accelerator - Fixed Price

# 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

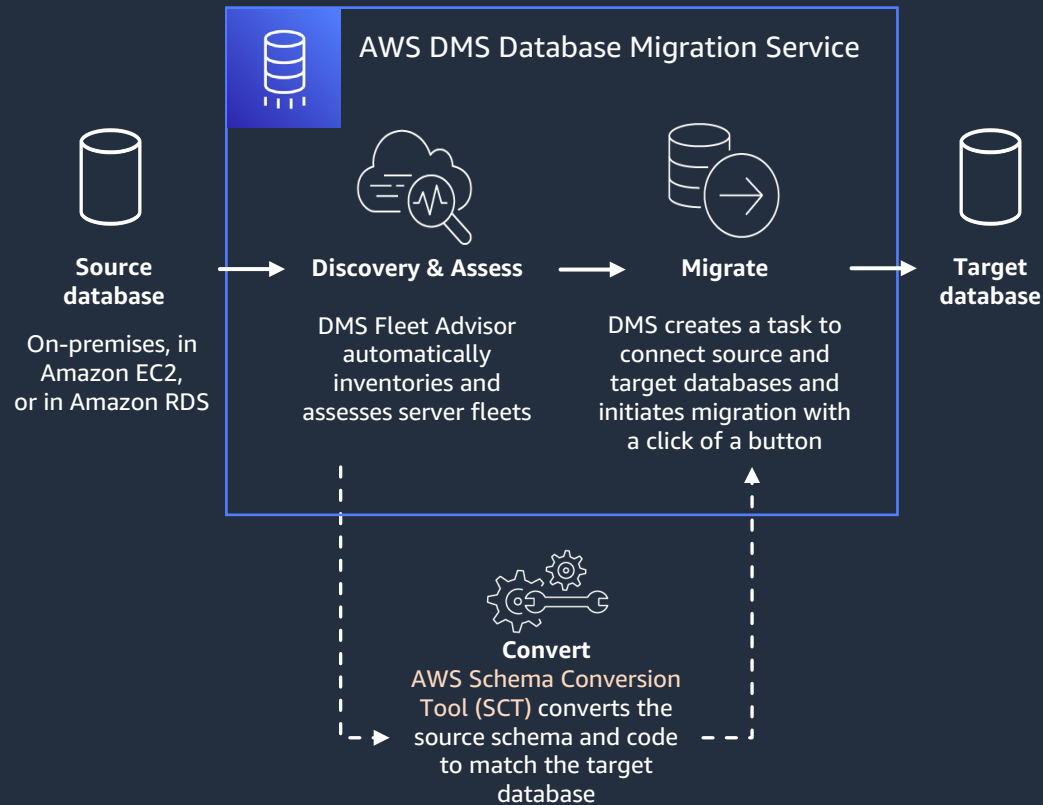


Extracts and migrates data warehouses to Redshift

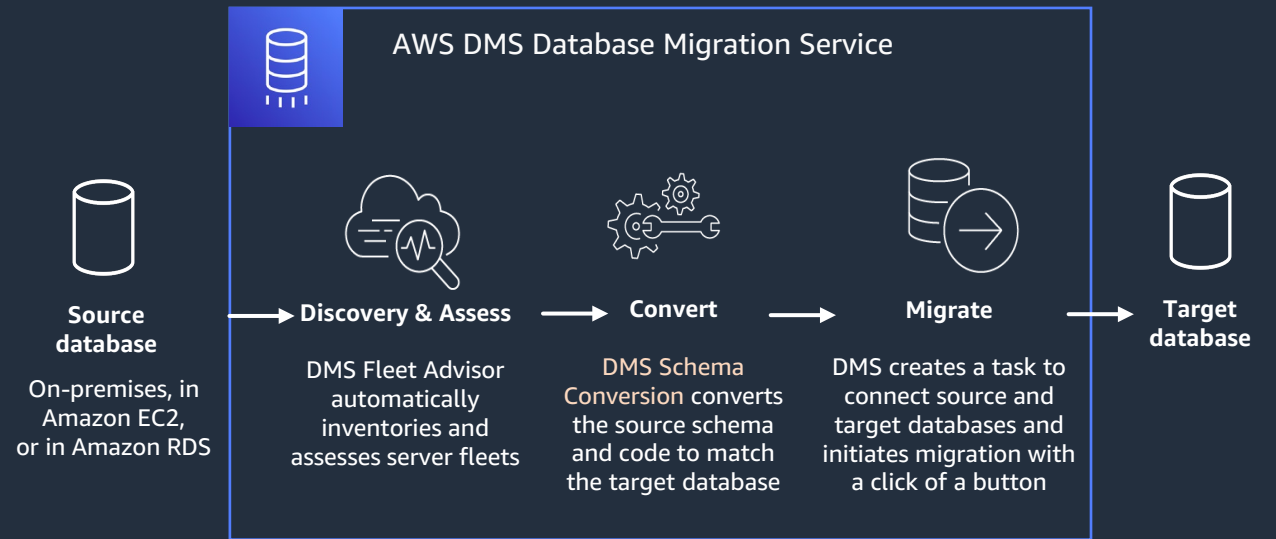
# AWS SCT vs. AWS DMS Schema Conversion

## Side-by-side comparison

### AWS Schema Conversion Tool (AWS SCT)



### AWS DMS Schema Conversion



# Schema Assessment Report

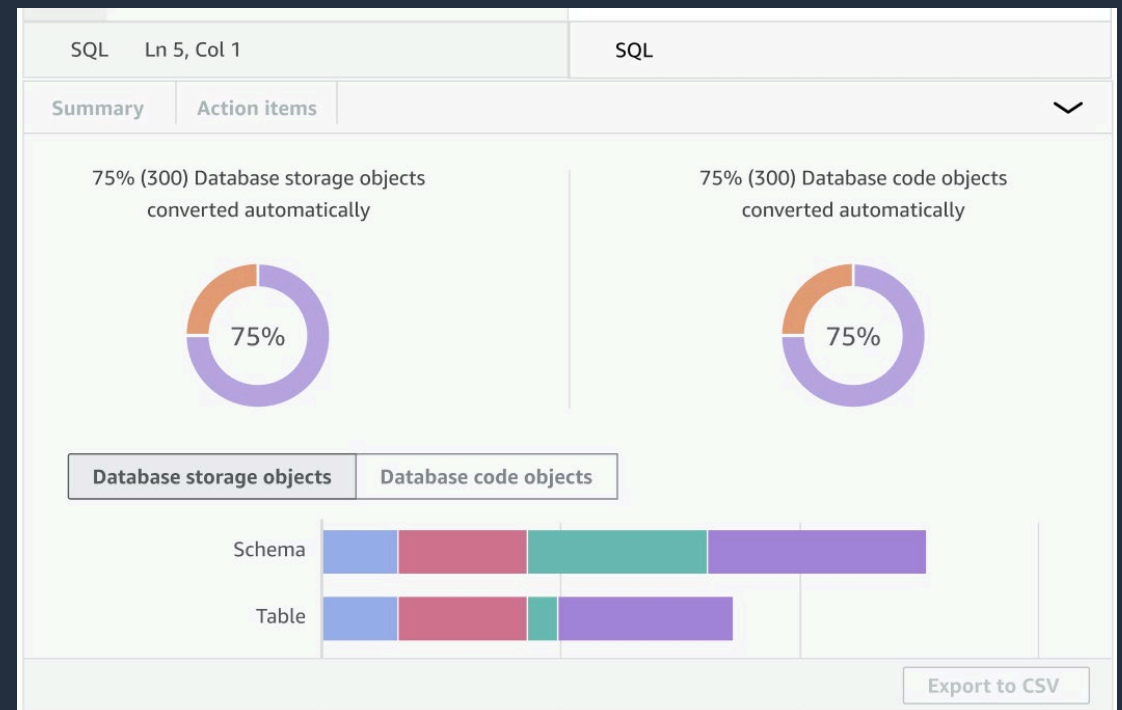
Summarizes all of the schema conversion tasks

Executive summary

Action items

Recommendations

Manual conversion effort estimates



# Convert Database Schema

Convert source database objects to a format compatible with your target database

Store database metadata on an Amazon S3 bucket to browse database objects faster

Convert selected schema items or the whole database schema

The screenshot shows the AWS DMS console interface for schema conversion. At the top, a blue banner indicates 'Loading Oracle schema from database' with a progress bar at 36% and a 'Stop loading from database' button. Below this, the breadcrumb navigation shows 'DMS > Migration projects > Migration project 1 > Schema conversion'. The main area is split into three panes: 'Source schema: Oracle', 'Target SQL', and 'Target schema: Aurora PostgreSQL'. The 'Source schema' pane shows a tree view with 'Tables (3)' selected, including 'Table1', 'Table2', and 'Table3'. The 'Target SQL' pane shows the SQL statement for creating 'table1' with columns '@InputPosNo', 'tvpPosNo', and 'readonly'. The 'Target schema' pane shows the converted SQL statement for 'table1' with columns '@posFlags', '@posFlagsMask', and 'AS'. At the bottom, a 'Summary' section shows an issue: 'Issue 2407: Unable to convert statement (843)'. The recommended action is 'Perform a manual conversion'. The issue details list three SQL scripts: 'bf\_func\_w\_options.sql (3)', 'bf\_dt\_numeric.sql (3)', and another 'bf\_dt\_numeric.sql (3)'. Each script has a note: 'Automatic conversion of FUNCTION\_OPTION statement is not supported.' or 'Automatic conversion of FUNC\_INLINE\_OPTION statement is not supported.'



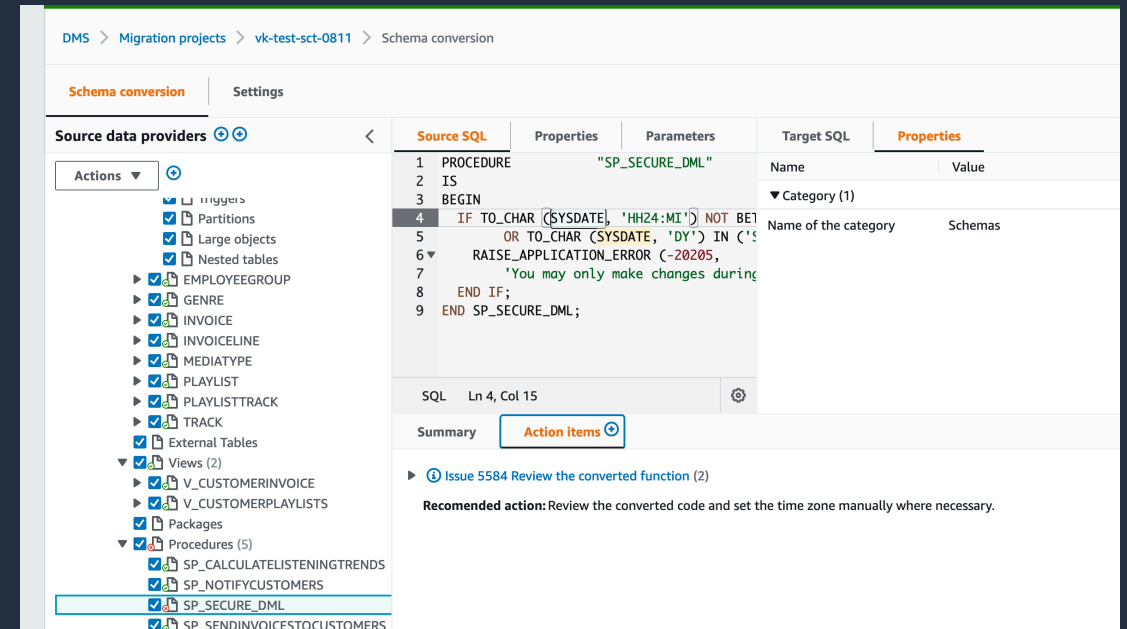
# View Converted SQL Code

View source and converted code for objects selected

View object properties or parameters

Converted code stored as part of migration project

Save code to a file as a SQL script



# AWS Schema Conversion Demo



# Thank you!

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