Yes, part of the AWS Database Migration Service is the free AWS Schema Conversion Tool (SCT) that automates the conversion of Oracle PL/SQL and SQL Server T-SQL code to equivalent code in the Amazon Aurora / MySQL dialect of SQL or the equivalent PL/pgSQL code in PostgreSQL. When a code fragment cannot be automatically converted to the target language, SCT will clearly document all locations that require manual input from the application developer.

Show less

Q: How do I get started with AWS Database Migration Service?

Getting started with AWS Database Migration Service is quick and simple. Most data replication tasks can be set up in less than 10 minutes. Visit the AWS Database Migration Service section of the AWS Management Console and enter the Start Migration wizard. Specify your source and target endpoints, select an existing replication instance or create a new one, and accept the default schema mapping rules or define your own transformations. Data replication will start immediately after you complete the wizard.

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Q: In addition to one-time data migration, can I use AWS Database Migration Service for continuous data replication?

schemas for homogeneous migrations and convert them for heterogeneous migrations. The schemas can be between databases e.g.) Oracle to PostgreSQL or between data warehouses e.g.) Netezza to Amazon Redshift.

Once a schema has been created on an empty target, depending on the volume of data and/or supported engines, either DMS or SCT are then used to move the data. DMS traditionally moves smaller relational workloads (<10 TB) and MongoDB, whereas SCT is primarily used to migrate large data warehouse workloads. DMS supports ongoing replication to keep the target in sync with the source; SCT does not.

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Q: What sources and targets does AWS Database Migration Service support?

AWS Database Migration Service (DMS) supports a range of homogeneous and heterogeneous data replications.

Either the source or the target database (or both) need to reside in RDS or on EC2. Replication between on-premises to on-premises databases is not supported.

- Supported DMS sources
- Supported DMS targets

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Q: Why should I use AWS Database Migration Service instead of my own self-managed replication solution?

AWS Database Migration Service is very easy to use. Replication tasks can be set up in minutes instead of hours or days, compared to the self-managed replication solutions that have to be installed and configured. AWS Database Migration Service monitors for replication tasks, network or host failures, and automatically provisions a host replacement in case of failures that can't be repaired.Users of AWS Database Migration Service don't have to overprovision capacity and invest in expensive hardware and replication software, as they typically have to do with self-managed solutions. With AWS Database Migration Service users can take advantage of on-demand pricing and scale their replication infrastructure up or down, depending on the load. AWS Database Migration Service data replication integrates tightly with the AWS Schema Conversion Tool, simplifying heterogeneous database migration projects.

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Q: Can I monitor the progress of a database migration task?

Yes. AWS Database Migration Service has a variety of metrics displayed in the AWS Management Console. It provides an end-to-end view of the data replication process, including diagnostic and performance data for each point in the replication pipeline. AWS Database Migration Service also integrates with other AWS services such as CloudTrail and CloudWatch Logs. Customers can also leverage the AWS Database Migration Service API and CLI to integrate with their existing tools or build custom monitoring tools to suit their specific needs.

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Q: How do I integrate AWS Database Migration Service with other applications?

AWS Database Migration Service provides a provisioning API that allows creating a replication task directly from your development environment, or scripting their creation at scheduled times during the day. The service API and CLI allows developers and database administrators to automate the creation, restart, management and termination of replication tasks.

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Q: Can I replicate data from encrypted data sources?

Copy feature of AWS Database Migration Service. Basic Schema Copy will automatically create tables and primary keys in the target instance if the target does not already contain tables with the same names. Basic Schema Copy is great for doing a test migration, or when you are migrating databases heterogeneously e.g. Oracle to MySQL or SQL Server to Oracle. Basic Schema Copy will not migrate secondary indexes, foreign keys or stored procedures. When you need to use a more customizable schema migration process (e.g. when you are migrating your production database and need to move your stored procedures and secondary database objects), you can use the AWS Schema Conversion Tool for both homogeneous and heterogeneous migrations, or use the schema export tools native to the source engine, if you are doing homogeneous migrations like (1) SQL Server Management Studio's Import and Export Wizard, (2) Oracle's SQL Developer Database Export tool or script the export using the dbms_metadata package, (3) MySQL's Workbench Migration Wizard.

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Q: Can I use DMS to perform bi-directional replication?

Bi-directional replication is not recommended with DMS. A typical replication scenario has a single source and a target. When the source and target endpoints are distinct, DMS guarantees transactional integrity. In bi-directional replication these source and targets can be reversed and lead to unintended consequences if the same row is updated by two different replication tasks.

Visit the pricing page

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