Database Migration Service

(DMS)

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# Database Migration Service

## Definition

* It is a service that enables one to migrate databases to AWS cloud quickly and securely.
* The source database remains fully operational during the migration, minimizing downtime to applications that rely on the database.
  + A replication instance is created for migration purposes. (Essentially, an EC2 instance)
  + Migration tasks are then assigned to this replication instance along with the source and target endpoints.
* It supports both homogenous as well as heterogeneous migrations
  + For heterogenous migrations that require schema and code transformation, AWS Schema Conversion Tool is used first, followed by the AWS DMS service to move the data, making the migration a two-step process.

## Endpoints

One can create source and target endpoints which represent the source and target databases part of the migration tasks.

* Source Endpoint
  + On-premise and EC2 Instance databases like Oracle, MySQL, MariaDB, ASE, etc.
  + Microsoft Azure SQL Database
  + Amazon RDS instances
  + Amazon S3
* Target Endpoint
  + On-premise and EC2 Instance databases
  + Amazon RDS Instances
  + Other targets like S3, Redshift, DynamoDB