

AWS Cloud DMS

Topics : [AWS](#)

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AWS Database Migration Service (DMS) is a fully managed service provided by Amazon Web Services that allows you to migrate databases to AWS quickly and securely. Here are key features and aspects of AWS DMS:

1. Database Source and Target Support:

- DMS supports a variety of database sources, including on-premises databases, databases hosted on Amazon EC2 instances, and other cloud-based databases.
- It also supports a wide range of target databases, including Amazon RDS, Amazon Redshift, Amazon DynamoDB, and more.

2. Supported Database Engines:

- DMS supports migration between different database engines, such as Oracle, MySQL, PostgreSQL, Microsoft SQL Server, MongoDB, and others.

3. Data Replication:

- DMS can be used for ongoing data replication between databases, enabling real-time data synchronization between the source and target.

4. Schema Conversion:

- DMS includes schema conversion tools that can help automate the process of converting the source schema to the target schema, facilitating migration between different database engines.

5. Continuous Data Replication:

- DMS supports continuous data replication, allowing you to keep the source and target databases in sync with minimal latency.

6. Change Data Capture (CDC):

- DMS uses CDC to capture changes in the source database so that only incremental changes are replicated to the target. This minimizes the downtime during migration.

7. Data Validation:

- DMS provides features for data validation to ensure that data is migrated accurately and

consistently.

8. Task Monitoring and Logging:

- DMS allows you to monitor the progress of migration tasks and provides detailed logging for troubleshooting and auditing purposes.

9. Security:

- DMS uses AWS Identity and Access Management (IAM) for access control.
- Data during migration can be encrypted using SSL/TLS.

10. Network Connectivity:

- DMS supports both internet-based and Direct Connect-based network connectivity for migration tasks.

11. Flexible Scheduling:

- You can schedule migration tasks to run at specific times to minimize the impact on production systems.

12. Homogeneous and Heterogeneous Migration:

- DMS supports both homogeneous migrations (e.g., Oracle to Oracle) and heterogeneous migrations (e.g., Oracle to Amazon Aurora).

13. DMS Replication Instances:

- Replication instances in DMS are computing resources that manage the migration tasks. You can choose the instance type based on the performance requirements.

AWS DMS is a versatile service that facilitates database migrations and continuous data replication with minimal downtime. It's commonly used by organizations looking to migrate their databases to AWS or maintain real-time data synchronization between databases.

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