AWS Migration Services

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A lot of companies are migrating to the cloud, and they need inexpensive, fast, and secure ways to move their on-premises data to AWS.

### Data Migration Service (DMS)

DMS helps you migrate database to or within AWS.

###### Features:

1. Migrate on-premise databases to AWS.
2. Supports homogeneous and heterogeneous migrations.
3. Continuous data replication.
4. Virtually no downtime.

###### Use case:

1. Oracle to Aurora MySQL.
2. Oracle to Oracle.
3. RDS Oracle to Aurora MySQL.

### Server Migration Service (SMS)

SMS allows you to migrate on-premises servers to AWS.

###### Features:

1. Migrates on-premises servers to AWS.
2. Server saved as a new Amazon Machine Image (AMI).
3. Use AMI to launch as EC2 instances.

### AWS Snow Family

The Snow Family allows you to transfer large amounts of on-premises data to AWS using a physical device.

1. Snowcone
   1. Smallest member of data transport devices.
   2. 8 TB of usable storage.
   3. Offline shipping
   4. Online with DataSync
2. Snowcone and Snowball
   1. Petabyte-scale data transport solution.
   2. Cheaper than internet transfer.
   3. Transfer data in and out.
   4. Snowball Edge supports EC2 and Lambda.
3. Snowmobile
   1. Multi-petabyte or exabyte scale.
   2. Data loaded to S3.
   3. Securely transported.

### DataSync

DataSync allows for online data transfer from on-premises to AWS storage services like S3 or EFS.

###### Features:

1. Migrates data from on-premises to AWS.
2. Copy data between AWS storage services.
3. Copy data over Direct Connect or the internet.
4. Replicate data cross-Region or cross-account.

### Important for the exam:

1. When going for an exam, don’t forget the services natively supported by Snowball Edge like EC2 and Lambda.
2. Remember that Snowball transfers petabytes of data and is cheaper than transferring over the internet.
3. Don’t forget Snowmobile is the largest member of the transport family and supports exabyte-scale data.
4. Don’t forget DataSync transfers data online and can be used to replicate data cross-Region or cross-account.