DATA LIFECYCLE STAGES

Let's take a deeper look at the five stages of the data lifecycle involved in the preparation, processing, and presentation of data for decision-making*:

Click on a product to explore.

Data Sources
ERP
Transactions
Weblogs
Clickstream
Databases
Connected devices

1.
Data Ingestion
Amazon Kinesis
AWS Direct Connect
AWS Snowball
AWS Snowball Edge
AWS DataSync
Amazon S3 Transfer Acceleration
AWS Database Migration Service

2.
Data Staging
Amazon S3

AWS Lake Formation
Amazon Aurora
Amazon RDS
Amazon DynamoDB

Amazon ElastiCache
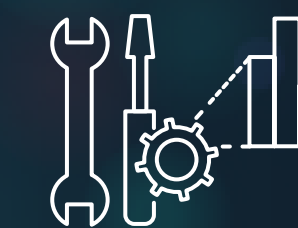Amazon Neptune
Amazon QLDB
Amazon Timestream

3
Data Cleansing
AWS Glue
AWS Lambda
AWS EMR

5
Data Archiving
Amazon S3 Standard-IA
S3 One Zone-IA
Amazon S3 Glacier
Amazon S3 Glacier Deep Archive
Amazon S3 Intelligent Tiering
(Object Lifecycle Management)

4
Data Analytics & Visualization
Amazon Athena
Amazon Redshift
Amazon Redshift Spectrum
Amazon Elasticsearch Service
Amazon QuickSight
AWS Lambda

Download *Data Lifecycle and Analytics in the AWS Cloud* Reference Guide

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*Note: Each data lifecycle stage represents a conceptual boundary and may differ across organizations. In addition, some AWS services can address more than one lifecycle stage. Finally, although the lifecycle appears linear, many data engineering and analytics processes are iterative.