

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*:

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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 ElastiCache
- Amazon Aurora
- Amazon Neptune
- Amazon RDS
- Amazon QLDB
- Amazon DynamoDB
- Amazon Timestream

3



Data Cleansing

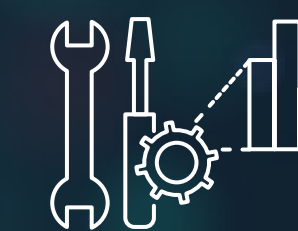
- AWS Glue
- AWS Lambda
- AWS EMR

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)



Data Analytics & Visualization

- Amazon Athena
- Amazon Redshift
- Amazon Redshift Spectrum
- Amazon Elasticsearch
- Amazon QuickSight
- AWS Lambda

4



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

*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.

