AWS Analytics Services

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### Data Warehouse

A data warehouse is a data storage solution that aggregates massive amounts of historic data from disparate sources.

###### Benefits:

Data warehouses support querying, reporting, analytics. And business intelligence. They are not used for transaction processing.

### Amazon Redshift

Redshift is a scalable data warehouse solution.

###### Features:

1. Data warehousing solution.
2. Handles exabyte-scale data.
3. Improves speed and efficiency.

### Athena

Athena is a query service for Amazon S3.

###### Features:

1. Query service
2. Analyze S3 data using SQL.
3. Pay per query.
4. Considered serverless.

### Glue

Glue prepares your data for analytics.

###### Features:

1. Prepare and load data.
2. Helps to better understand your data.
3. Extract, transform load (ETL) service.

### Kinesis

Kinesis allows you to analyze data and video streams in real-time.

###### Features:

1. Analyze real-time streaming data.
2. Supports video, audio, application logs, website clickstreams, and IoT.

### Elastic MapReduce (EMR)

EMR helps you process large amounts of data.

###### Features:

1. Process Big Data
2. Analyze data using Hadoop
3. Works with big data frameworks.

### Data Pipeline

Data Pipeline helps you to move data between compute and storage services running either on AWS or on-premises,

###### Features:

1. Moves data at specific intervals.
2. Moves data based on conditions.
3. Sends notification on success or failure.

### QuickSight

QuickSight helps you to visualize your data.

###### Features:

1. Build interactive dashboards.
2. Embed dashboards in your applications.

### Important for the exam:

1. Going into the exam, don’t forget Athena is used to querying S3.
2. Going to the exam, don’t forget the real-world use cases of Redshift.