

# Introducing Amazon Athena

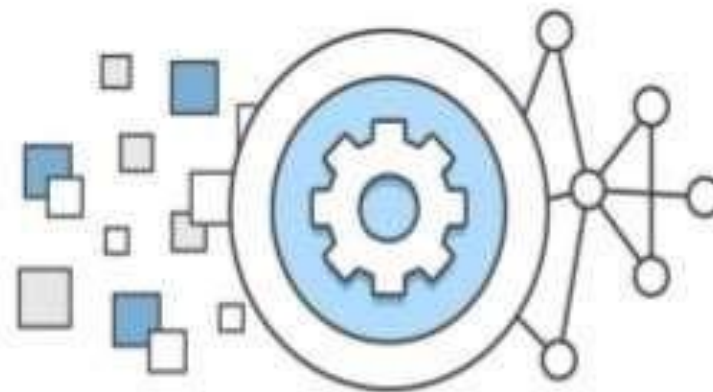
Amazon Athena is an **interactive query service** that makes it easy to analyze data directly from Amazon S3 using Standard SQL

# Athena is Serverless

No Infrastructure or  
administration

Zero Spin up time

Transparent upgrades



# Amazon Athena is Easy To Use

Log into the Console

Create a table

- Type in a Hive DDL Statement

- Use the console Add Table wizard

Start querying

## Amazon Athena is Highly Available

You connect to a service endpoint or log into the console

Athena uses warm compute pools across multiple Availability Zones

Your data is in Amazon S3, which is also highly available and designed for 99.999999999% durability

## Query Data Directly from Amazon S3

- No loading of data

- Query data in its raw format

  - Text, CSV, JSON, weblogs, AWS service logs

  - Convert to an optimized form like ORC or Parquet for the best performance and lowest cost

- No ETL required

- Stream data from directly from Amazon S3

- Take advantage of Amazon S3 durability and availability

## Familiar Technologies Under the Covers



### Used for SQL Queries

In-memory distributed query engine  
ANSI-SQL compatible with extensions



### Used for DDL functionality

Complex data types  
Multitude of formats  
Supports data partitioning



## Amazon Athena Supports Multiple Data Formats

Text files, e.g., CSV, raw logs

Apache Web Logs, TSV files

JSON (simple, nested)

Compressed files

Columnar formats such as Apache Parquet & Apache ORC

AVRO support



# Amazon Athena is Fast

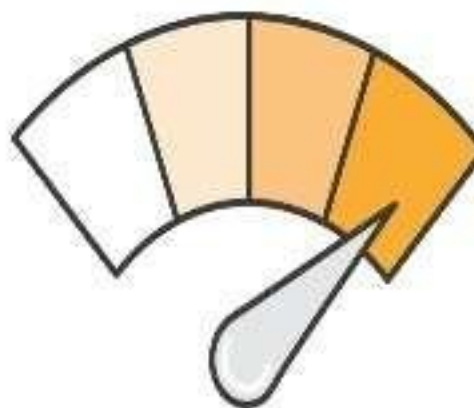
Tuned for performance

Automatically parallelizes queries

Results are streamed to console

Results also stored in S3

Improve Query performance  
Compress your data  
Use columnar formats





# Amazon Athena is Cost Effective

Pay per query

\$5 per TB scanned from S3

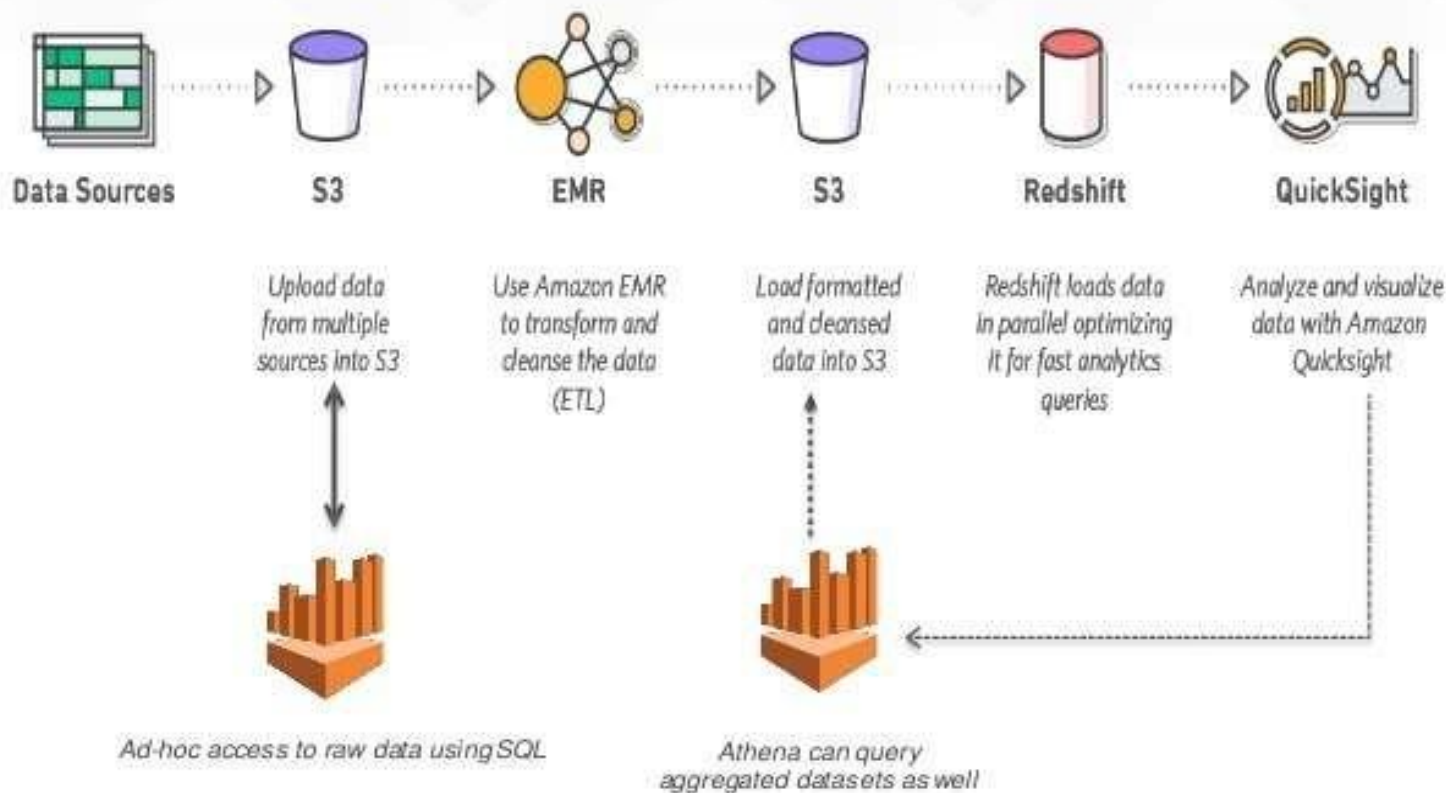
DDL Queries and failed queries are free

Save by using compression, columnar formats, partitions

# Building a Data Strategy on AWS



## A Sample Pipeline





# Questions?