



## Amazon Athena

Amazon Athena is a serverless interactive query service that allows you to analyze data directly in Amazon S3 using standard SQL queries.

Amazon Athena is a powerful tool for querying data stored in Amazon S3 using SQL, without the need for infrastructure management. Its serverless nature, integration with AWS services, and support for various data formats make it a flexible and cost-effective solution for data analysis, reporting, and business intelligence.

- **Serverless** query service to **perform analytics on data stored in S3**
- Uses **SQL** language to query the files
- **Runs directly on S3** (no copying needed)
- Output stored in S3
- Built on **Presto** engine
- Supports CSV, JSON, ORC, AVI and Parquet file formats
- Integrates with **QuickSight** for reporting & dashboards

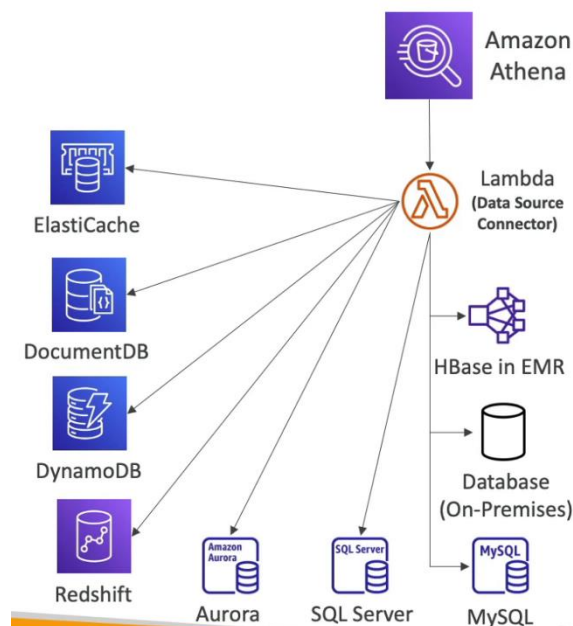




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### Federated Query

Federated Query in Amazon Athena provides a powerful way to analyze and integrate data across multiple sources using a unified SQL interface. It simplifies data access and analysis, allowing you to leverage the capabilities of Athena to query data stored in Amazon S3 and various external data sources without managing complex infrastructure.



### Improving performance

Improving performance in Amazon Athena involves optimizing various aspects of your queries and data structures to reduce query execution time and cost.

**Columnar Storage Formats:** Use columnar data formats like Parquet or ORC instead of row-based formats like CSV. Columnar formats are optimized for query performance and reduce the amount of data scanned.

**Compression:** Apply compression to your data files to reduce their size. Formats like Parquet and ORC support efficient compression. This reduces the amount of data Athena needs to read and process.



**Amazon  
Athena**

Athena Scenario based Questions

<https://lisireddy.medium.com/aws-athena-scenario-based-questions-4d9fb7116422>

*Wish you the best ...! Happy Learning ...!*

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