Athena

* Amazon Athena is a serverless, interactive query service provided by Amazon Web Services (AWS).
* It allows users to analyse data in Amazon S3 using standard SQL.
* Athena is based on the open-source SQL engine Presto.
* Users can run queries directly from the AWS Management Console without managing any infrastructure.
* It supports various data formats, including CSV, JSON, ORC, Avro, and Parquet.
* Athena integrates with AWS Glue Data Catalog, enabling users to create a unified metadata repository across various AWS services.
* It charges users based on the amount of data scanned by the queries, making it cost-effective for large datasets.
* Athena supports complex queries, including joins, nested queries, and window functions.
* It can be used to quickly analyze large datasets and derive insights for business intelligence purposes.
* Results of queries can be stored back into Amazon S3 for further analysis or processing.
* Athena can be integrated with various BI tools such as Amazon QuickSight for visualization and reporting.
* Security features include integration with AWS IAM for access control and support for data encryption in S3.
* Athena is ideal for use cases like log analysis, ad-hoc data exploration, and processing data from various AWS services.