



AMAZON WEB SERVICES



MAY 15, 2023
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1. S3:

- Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance.
- It can store any type of file or object like an image or video and is based on same infrastructure like amazon ecommerce website.
- It is great for general purpose file storage.

2. RDS:

- It is a managed SQL database service provided by AWS.
- Amazon relational database service RDS supports a variety of different SQL flavors and fully manage things like backups patching and scale.
- Amazon RDS supports an array of database engines to store and organize data.

3. GLUE:

- AWS Glue is a server less (which means there's no infrastructure to manage) data integration service.
- You can use it for analytics, machine learning, and application development.
- With AWS Glue, you can discover and connect to more than 70 diverse data sources and manage your data in a centralized data catalog.
- Create, run, and monitor extract, transform, and load (ETL) pipelines to load data into your data lakes.
- Consolidates major data integration capabilities into a single service.
- AWS Glue makes it easy to integrate data across your architecture.
- Discover and organize data.
- Transform, prepare, and clean data for analysis.
- Build and monitor data pipelines.

4. Redshift

- You need a place to store data and the best option for it is Redshift which is a data warehouse.

- Used by big enterprises to store multiple data sources from business where they can be analyzed together.
- When all your data is in one place it is easier to generate meaningful analytics and run machine learning on it. Data in the warehouse is structured and can be queried.

5. IAM role

- AWS Identity and Access Management (IAM) is a web service that helps you securely control access to AWS resources.
- With IAM, you can centrally manage permissions that control which AWS resources users can access.
- You use IAM to control who is authenticated (signed in) and authorized (has permissions) to use resources.

6. Crawler

A crawler,

- Accesses your data store
- Extracts metadata
- Creates table definitions in the AWS Glue Data Catalog.

The Crawlers pane in the AWS Glue console lists all the crawlers that you create. The list displays status and metrics from the last run of your crawler.

7. Athena

- Athena provides a simplified, flexible way to analyze petabytes of data where it lives.
- Amazon Athena is an interactive query service that makes it easy to analyze data directly in Amazon Simple Storage Service (Amazon S3) using standard SQL.

8. QuickSight

Amazon QuickSight is a very fast, easy-to-use, cloud-powered business analytics service that makes it easy for all employees within an organization to

- Build visualizations
- Perform ad-hoc analysis
- Quickly get business insights from their data, anytime, on any device.

9. Lambda

- Lambda is function as a service aka server less. With this you simply upload your code then chose an event that decides when that code should run traffic scaling and networking.
- Let's you run code without provisioning or managing servers.
- High-availability compute infrastructure and performs all of the administration of the compute resources.
- All you need to do is supply your code in one of the language runtimes that Lambda supports.

10. EC2

- An AWS product (ELASTIC COMPUTE).
- It's one of the fundamental building block on the platform and allows you to create a virtual computer in the cloud, choose your operating system and computing power then you can rent that space in the cloud.