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# AMAZON WEB SERVICES

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## 1. S3:

- It is a simple storage service, very first product offered by AWS.
- 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:

- It is a server less product that makes it much easier to extract, transform and load data.
- It can connect to other data sources on AWS like AURORA REDSHIFT and S3 and has a tool called glue studio so you can create jobs without having to write any actual source code but one of the biggest advantage of collecting massive amount of data is that you can help it to predict future and AWS has bunch of tools in the machine learning aisle that makes process easier.

## 4. Redshift

- You need a place to store data and the best option for it is Redshift which is a data warehouse that tries to get you shift away from oracle warehouses.
- 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 leaning on it. Data in the warehouse is structured and can be queried.

## 5. IAM role

Used by wide variety of developers for security so IAM can create rules and determine who has access to what on your AWS account.

## 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.

- Unlike a dedicated server you only pay for exact number of requests & computing time that you use.

## 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.