



AWS Glue Vs. EMR: Which One is Better?

AWS Glue

Amazon EMR

Deployment Types

Serverless

AWS Glue is a serverless platform. So, you don't need to worry about setting up the server or investing in the necessary infrastructure.

Server platform

Amazon EMR requires you to have the necessary infrastructure for big data operations. If you have the infrastructure, it is simple to deploy.

Pricing

High

AWS Glue comes as a serverless platform, it has more cost attached to it. But, on the other hand, Amazon EMR is less costly as you already have the required setup.

Low

AWS Glue costs you around \$0.44 per hour per DPU. So roughly, you would need to pay around \$21 per day.

Flexibility & Scalability

Flexible

AWS Glue is a flexible and easily scalable ETL platform as it works on AWS serverless platform.

Harder to scale

Amazon EMR is less flexible as it works on your onsite platform.

ETL operations

Better

AWS Glue is a flexible and easily scalable ETL platform as it works on AWS serverless platform.

Not so good

Amazon EMR can also be used for ETL operations, amongst many other database operations.

Performance

Slower and less stable

AWS Glue, you cannot store temp files, executable files on your end due to serverless infrastructure. This, in turn, affects the performance of the system.

Faster and more stable

Amazon EMR allows you to run the database faster and enhances the overall system performance.