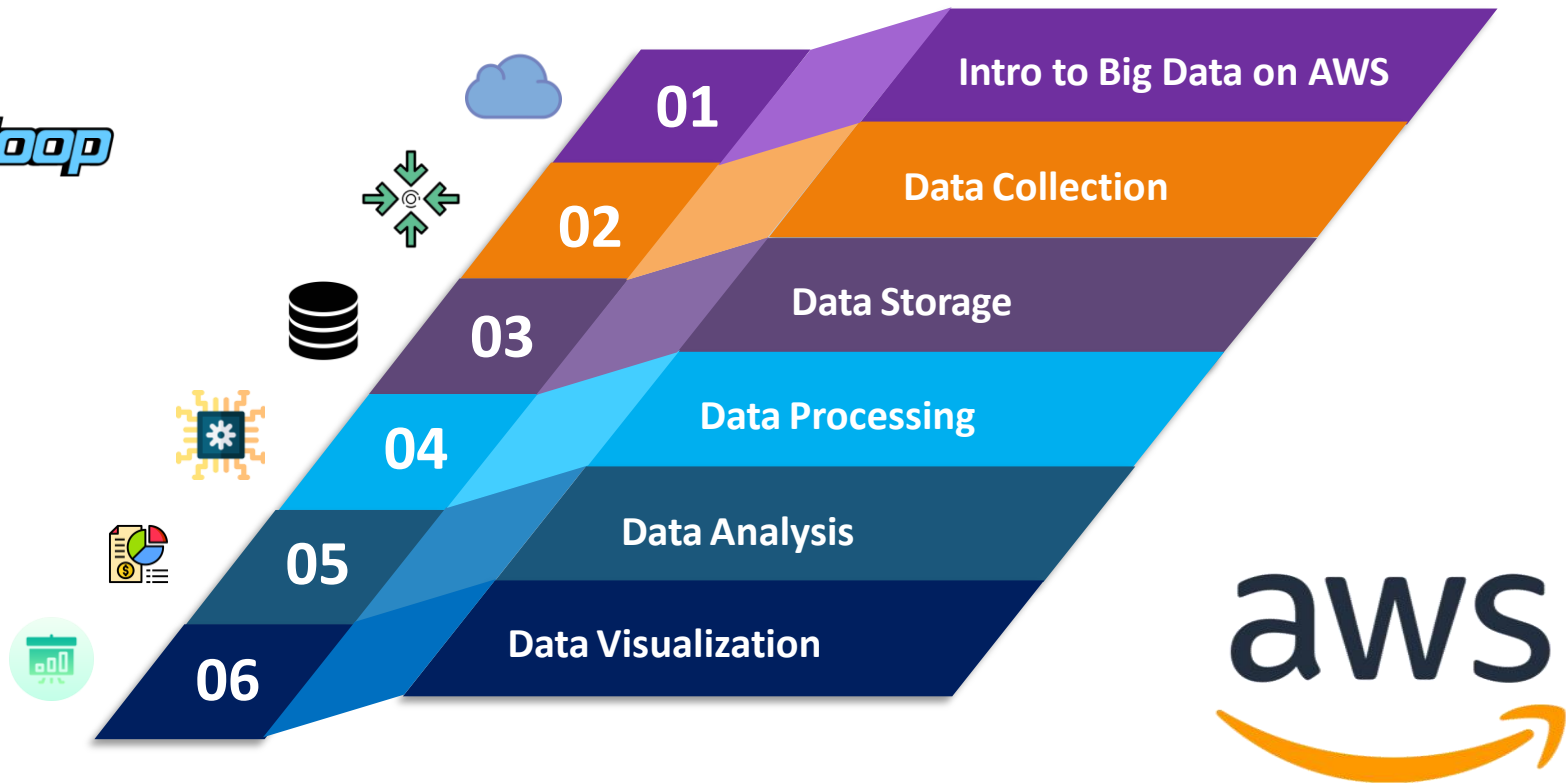


# Big Data AWS Tutorial



# Agenda



# Introduction to Big Data on AWS

# Introduction to Big Data on AWS

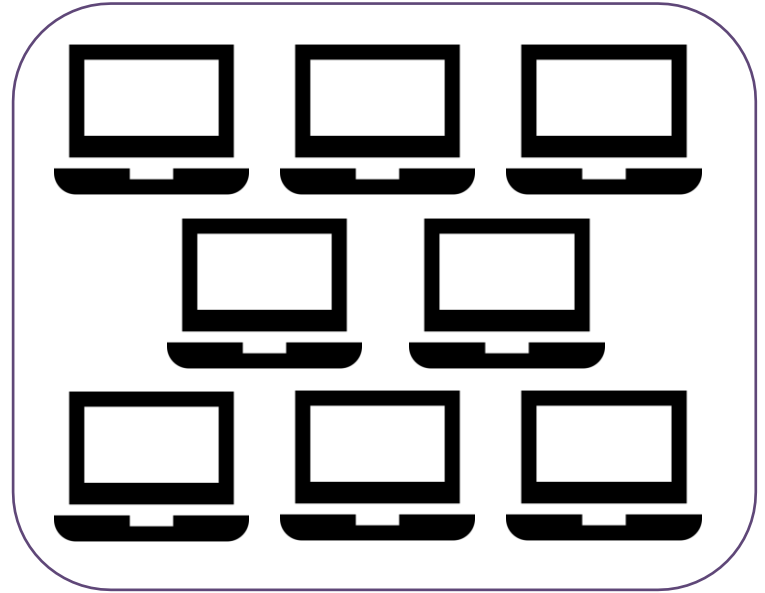
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The traditional way of implementing Big Data



Client

Remote Access



A Big Data Cluster

# Introduction to Big Data on AWS

Using AWS cloud services to implement Big Data



# Introduction to Big Data on AWS

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There are multiple advantages to using AWS for our Big Data needs



# Introduction to Big Data on AWS

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## Source



**amazon**  
KINESIS



**amazon**  
SQS

## Processing



**amazon**  
EMR



Amazon  
**Lambda**



**amazon**  
REDSHIFT

## Storage



**amazon**  
S3



**amazon**  
DynamoDB



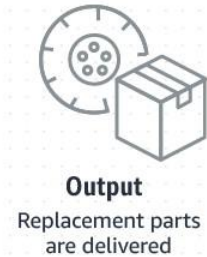
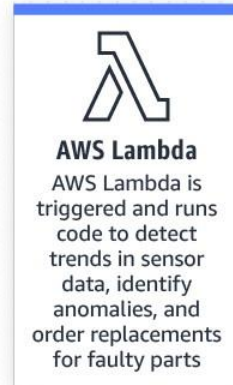
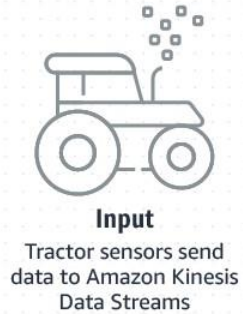
Amazon  
**RDS**

# Data Collection



# Data Collection

**AWS Kinesis** is a data streaming service



# Data Storage

# Data Storage

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Amazon DynamoDB is a NoSQL database, which is fully managed by AWS to provide a fast and predictable performance. With DynamoDB, we can create database tables that can store and retrieve any amount of data



# Data Storage

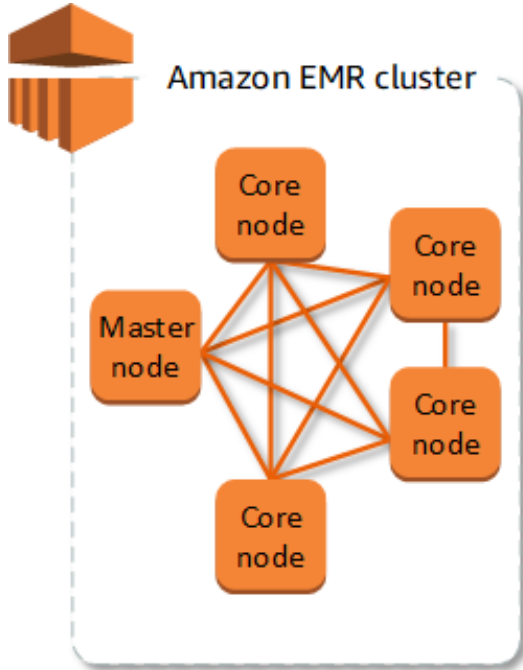
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Amazon Glacier is designed for long-term data storage for cold data that is not needed to be retrieved very frequently and quickly. It is also a backup service, which is used to back up the infrequently accessed data in S3



# Data Processing

# Data Processing



**Amazon EMR** is a Big Data cluster hosted through EC2 instances

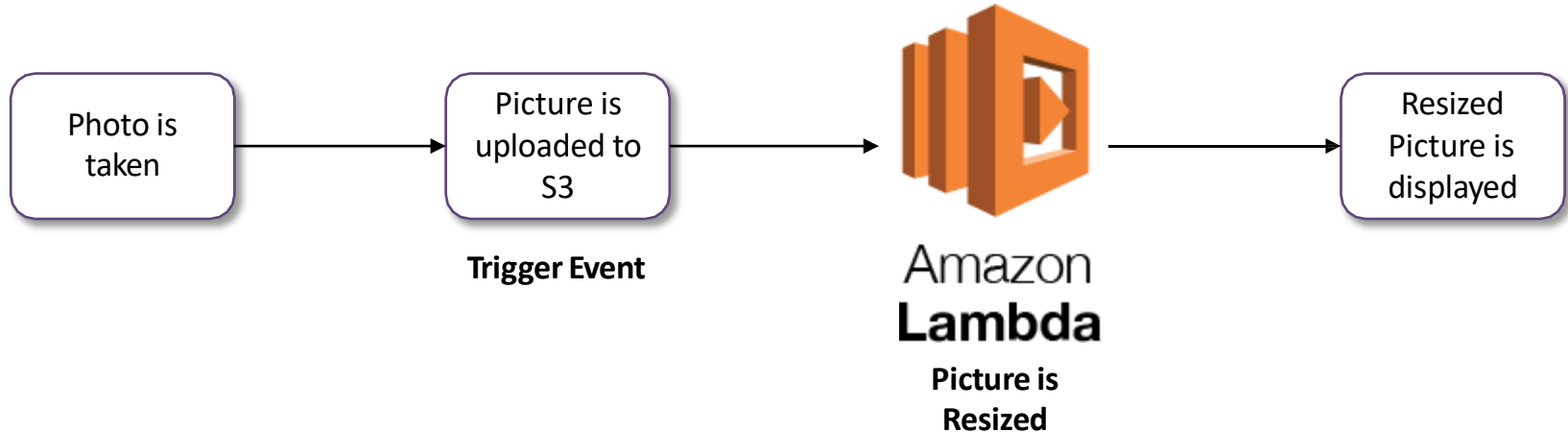


EMR Services cease after the processing ends

# Data Processing

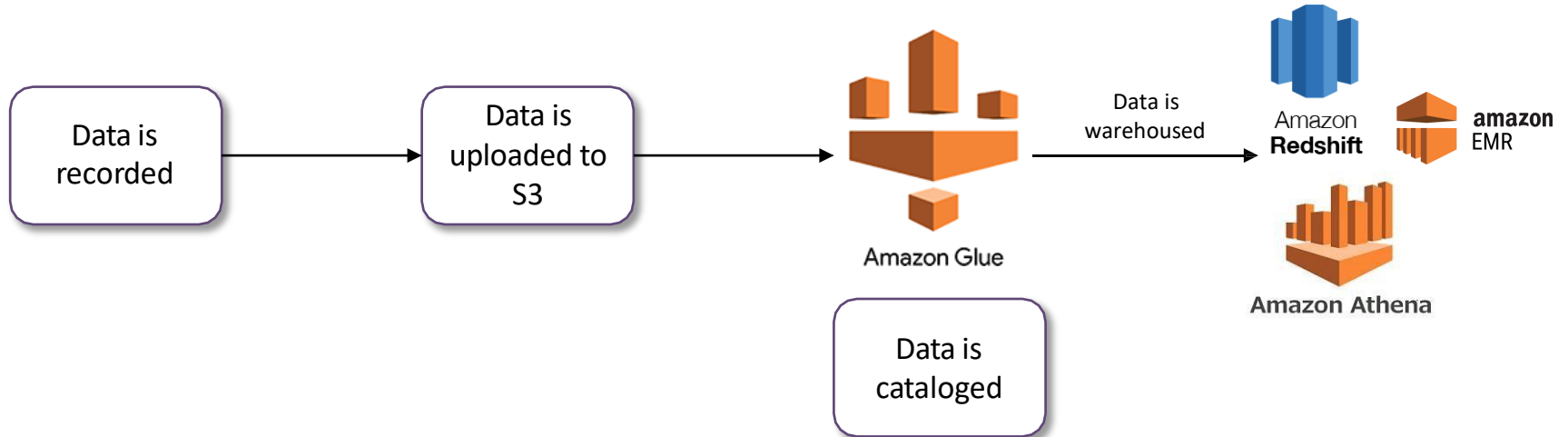
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**AWS Lambda** is a serverless, event-driven, and fully managed computing solution where we pay only for the computation we perform



# Data Processing

**AWS Glue** is a fully managed ETL (Extract, Load, and Transform) service that helps users prepare their data for analysis





# Data Analysis

# Data Analysis

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**Amazon Redshift** is a fully managed, petabyte-scale data warehouse service in the cloud that allows users to deal with as much as a petabyte of data



Amazon  
**Redshift**

# Data Analysis

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**Amazon SageMaker** is a fully managed Machine Learning service that provides an easy platform for users to train and build models and an environment to deploy them

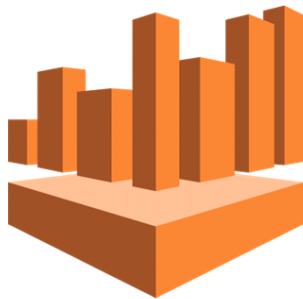


**Amazon  
SageMaker**

# Data Analysis

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**Amazon Athena** is a serverless, interactive query service that makes it easy to analyze data in Amazon S3, using basic SQL



**Amazon Athena**

# Data Analysis

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**Amazon Elasticsearch Service** is a fully managed, cost-effective AWS service that helps us deploy, secure, and run Elasticsearch and scale it

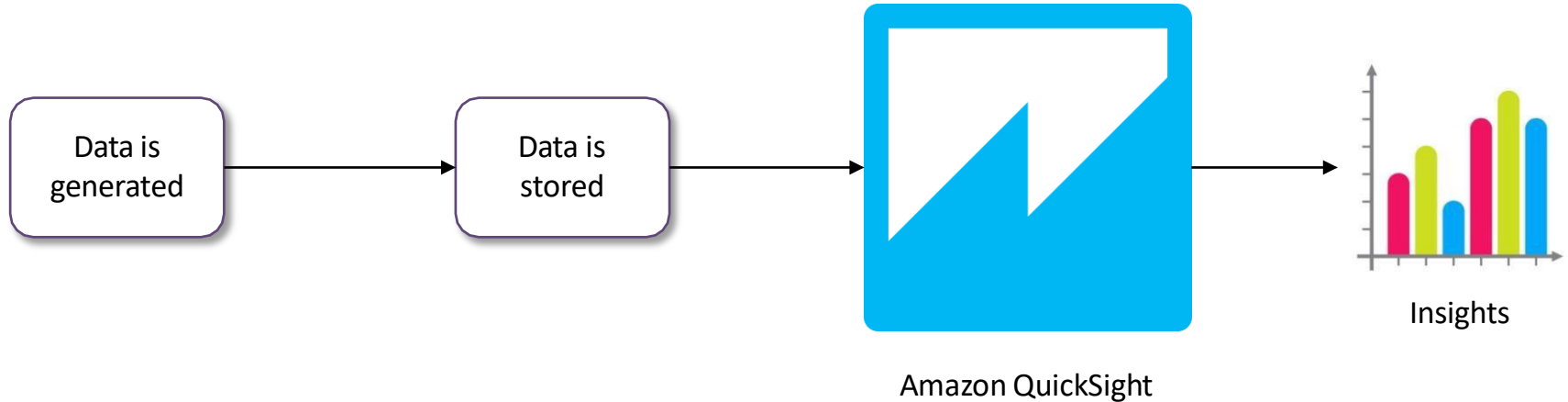


# Data Visualization

# Data Visualization and Security

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**Amazon QuickSight** is a fast and interactive visualization tool that helps users perform analysis and derive insights from data





**+919030485102**

[rganesh0203@gmail.com](mailto:rganesh0203@gmail.com)

[https://topmate.io/rganesh\\_0203](https://topmate.io/rganesh_0203)