

What is streaming data

Streaming Data is data that is generated continuously by thousands of data sources, which typically send in the data records simultaneously, and in small sizes (order of Kilobytes).

- Purchases from online stores (think [amazon.com](https://www.amazon.com))
- Stock Prices
- Game data (as the gamer plays)
- Social network data
- Geospatial data (think [uber.com](https://www.uber.com))
- IoT sensor data

What are the core Kinesis Services

- Kinesis Streams



- Kinesis Firehose

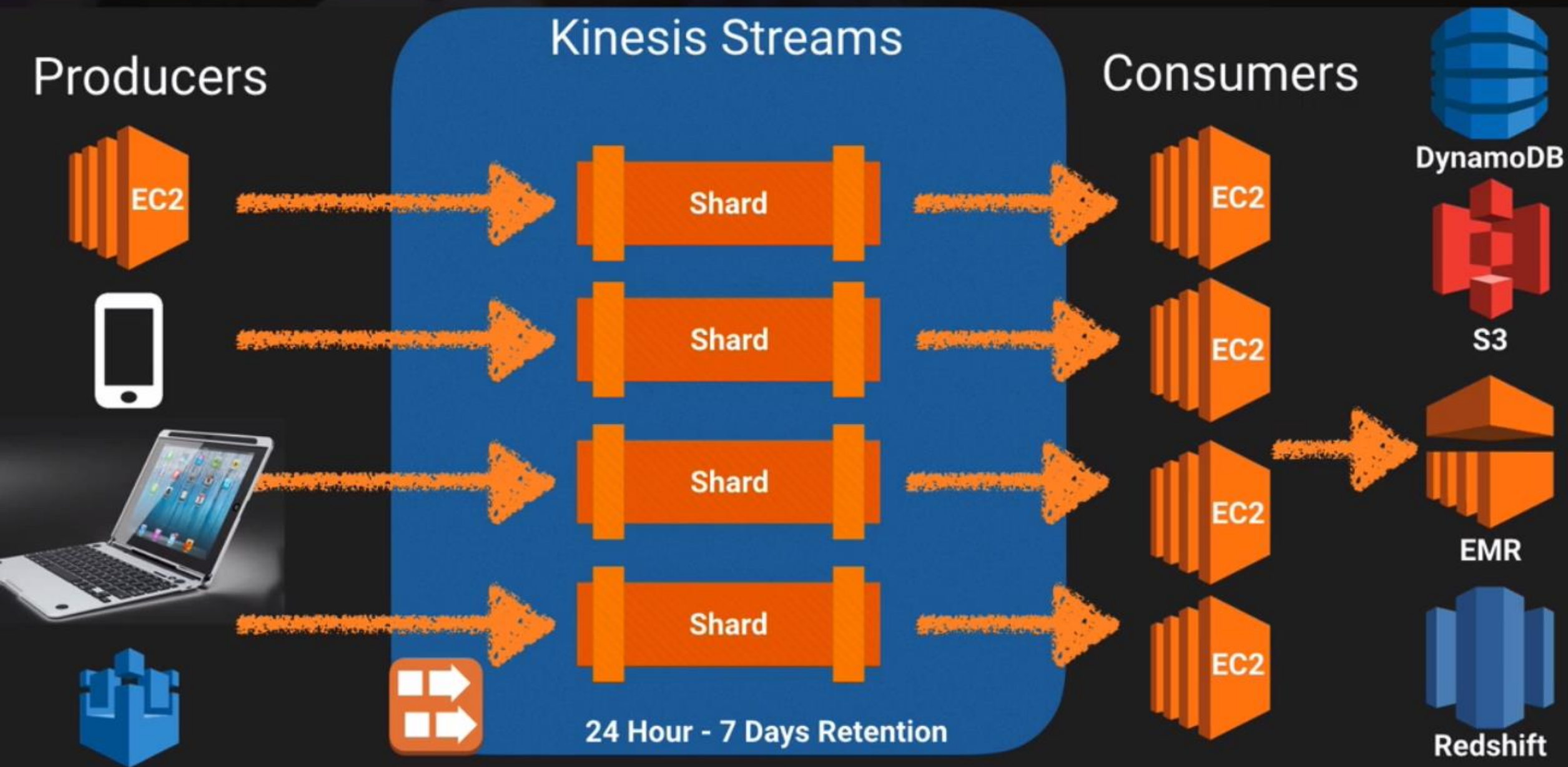


- Kinesis Analytics





What is Kinesis Streams



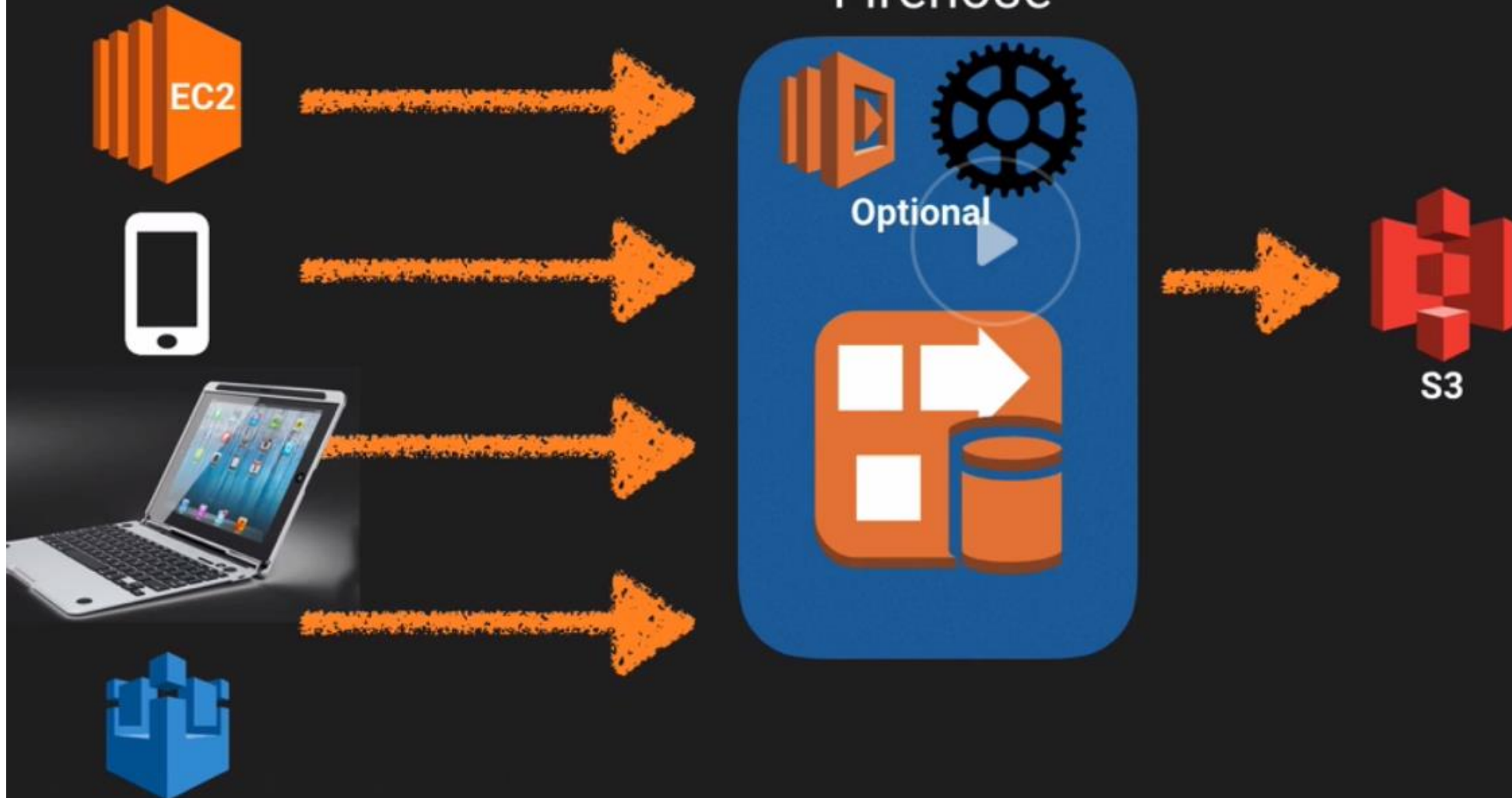
Kinesis Streams

- Kinesis Streams consist of shards
 - 5 transactions per second for reads, up to a maximum total data read rate of 2 MB per second and up to 1,000 records per second for writes, up to a maximum total data write rate of 1 MB per second (including partition keys).
 - The data capacity of your stream is a function of the number of shards that you specify for the stream. The total capacity of the stream is the sum of the capacities of its shards.

What is Kinesis Firehose

Producers

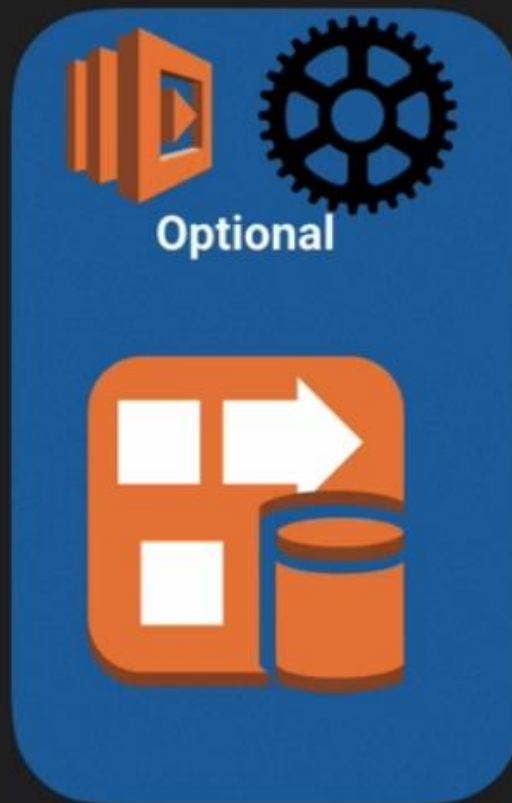
Kinesis Firehose



Kinesis Firehose & Redshift

Producers

Kinesis Firehose



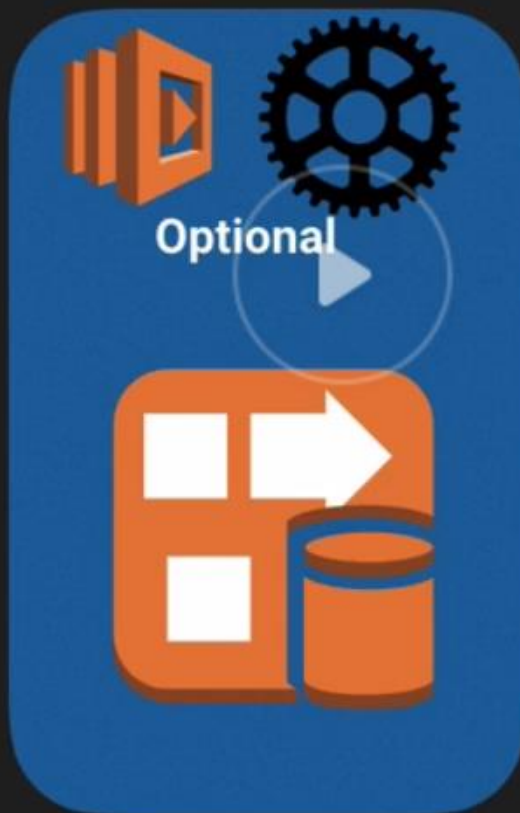
Kinesis Firehose with Elasticsearch Cluster



Producers



Kinesis Firehose



Elasticsearch Cluster

Know the difference!

**A CLOUD GURU**

Producers



EC2



Kinesis Streams

24 Hours - 1 Week

Shard

Shard

Shard

Shard

24 Hour - 7 Days Retention

Consumers



EC2



EC2



EC2



EC2



DynamoDB



S3



EMR



Redshift

Kinesis Analytics

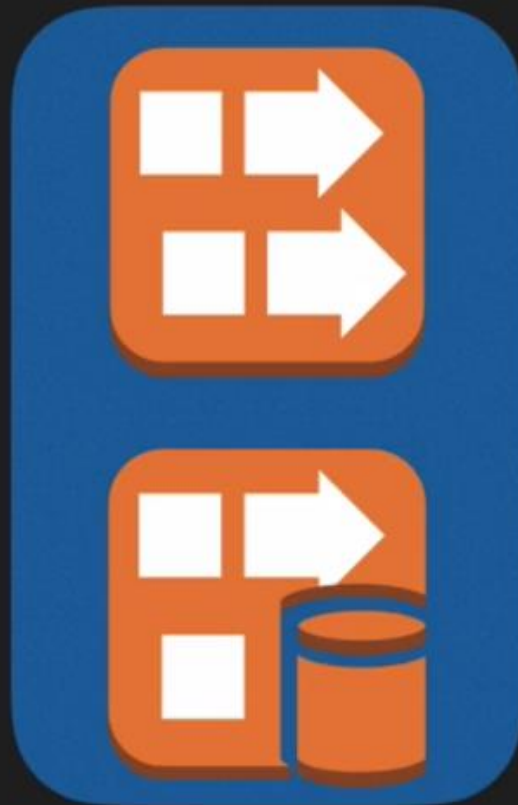


A CLOUD GURU

Producers



EC2



S3



Redshift

Elasticsearch
Cluster

Exam Tips



- Know the difference between Kinesis Streams and Kinesis Firehose. You will be given scenario questions and you must choose the most relevant service.
- Understand what Kinesis Analytics is.