AWS re:Invent

ANT312-R

# Amazon Elasticsearch Service: Everything ingest

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AWS re:Invent

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aws

# Agenda

Use cases, Amazon ES overview (search, product catalogs, log analytics, seim)

Ingest overview

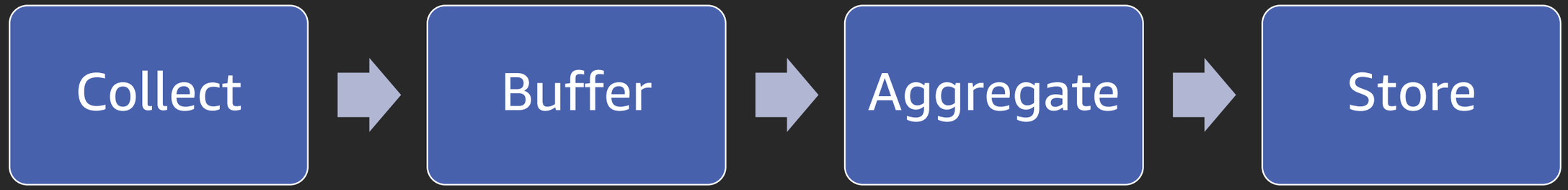
Ingest tools

Ingest pipelines

# Ingest overview

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# Overview of delivering logs to Amazon ES



# Log collectors: Popular options

| AWS native<br>Agent-based | Open source<br>Agent-based | Open source<br>JVM-based |
| --- | --- | --- |
| <br>Amazon CloudWatch Agent |  |  |
| <br>Amazon Kinesis Agent |  |  |
| |  | |

# Log buffers: Popular options

## AWS native



Amazon CloudWatch



Amazon Simple Queue Service (Amazon SQS)



AWS IoT Core



Amazon Kinesis Data Streams



Amazon Simple Storage Service (Amazon S3)



Amazon Kinesis Data Firehose

## Open source/AWS service












Amazon Managed Streaming for Kafka



Amazon ElastiCache for Redis

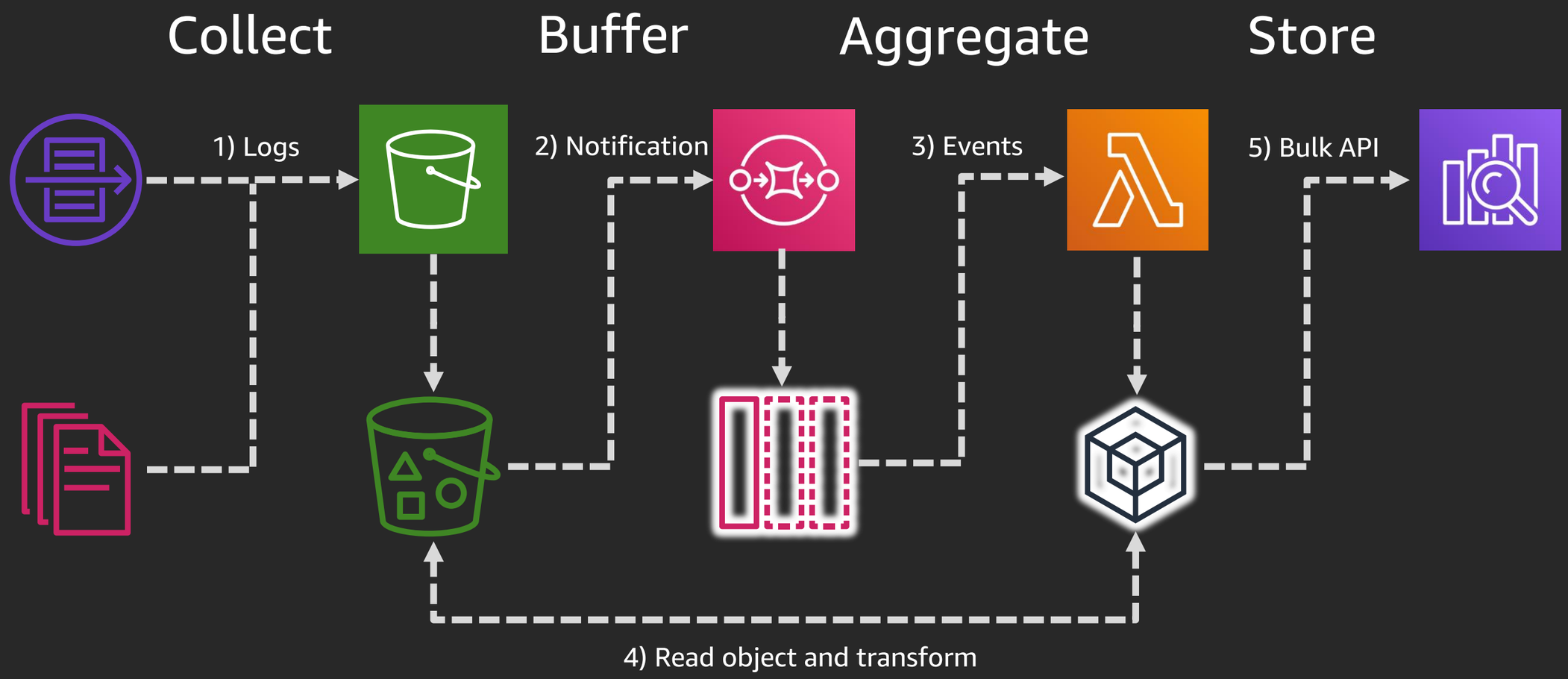
# Log aggregators: Popular options

| AWS native | Open source<br>Agent-based | Open source<br>JVM-based |
| --- | --- | --- |
| <br>AWS Lambda |  |  |

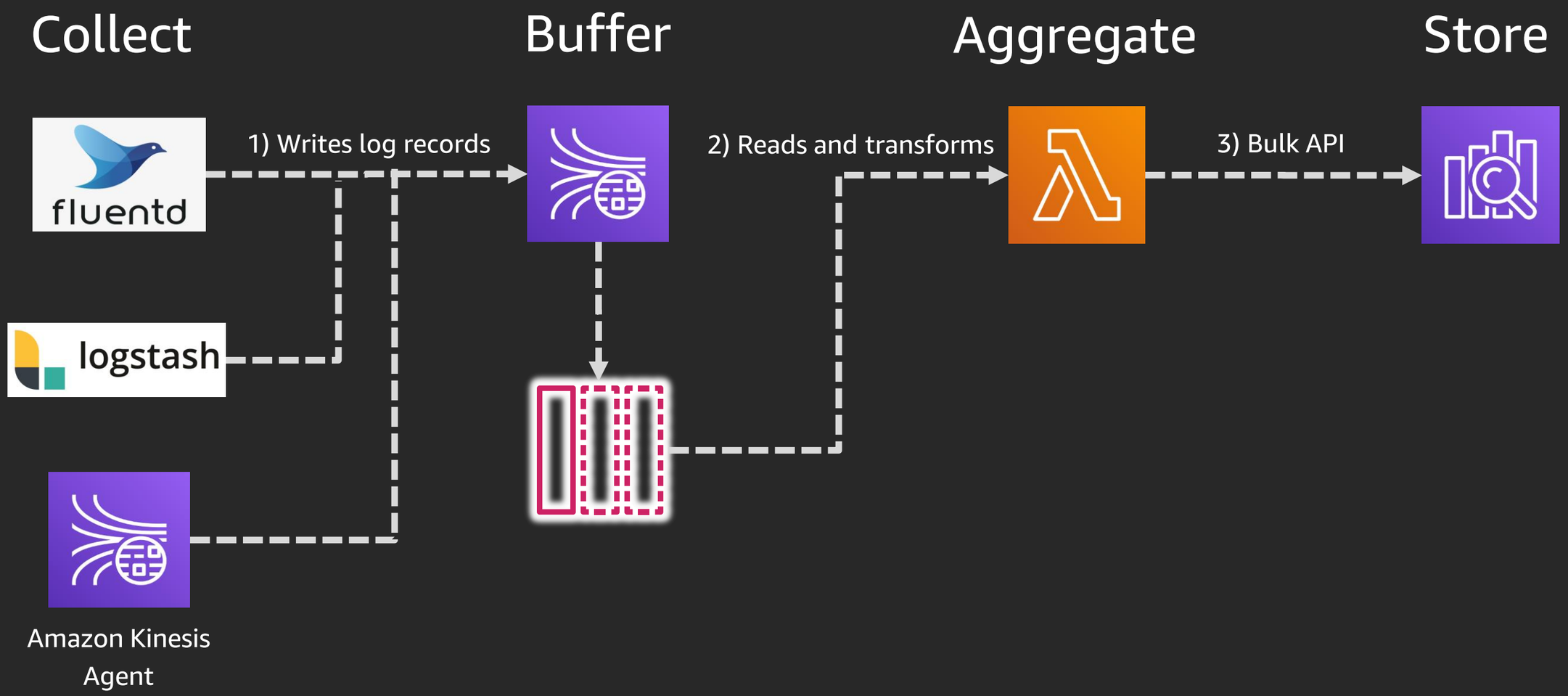
# Ingest pipelines

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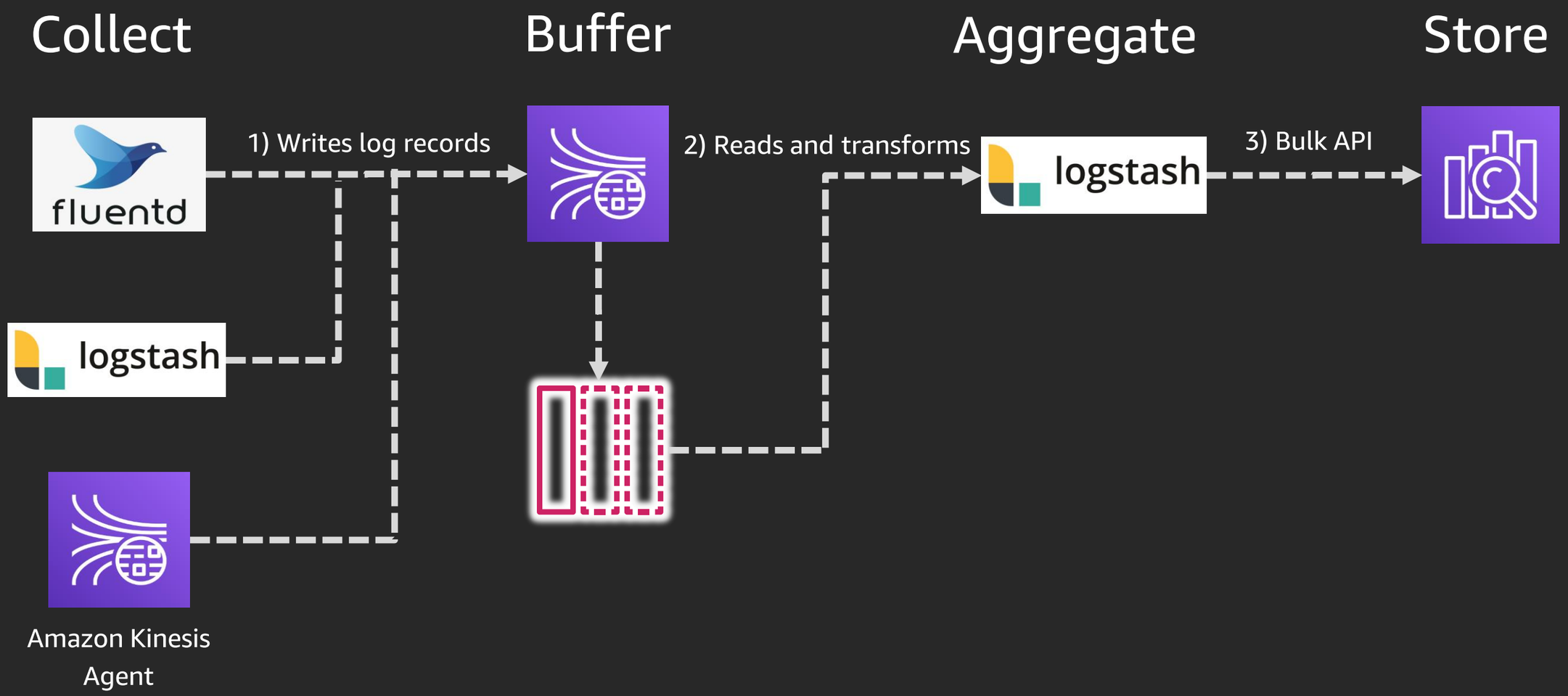
# Amazon S3 event notifications approach



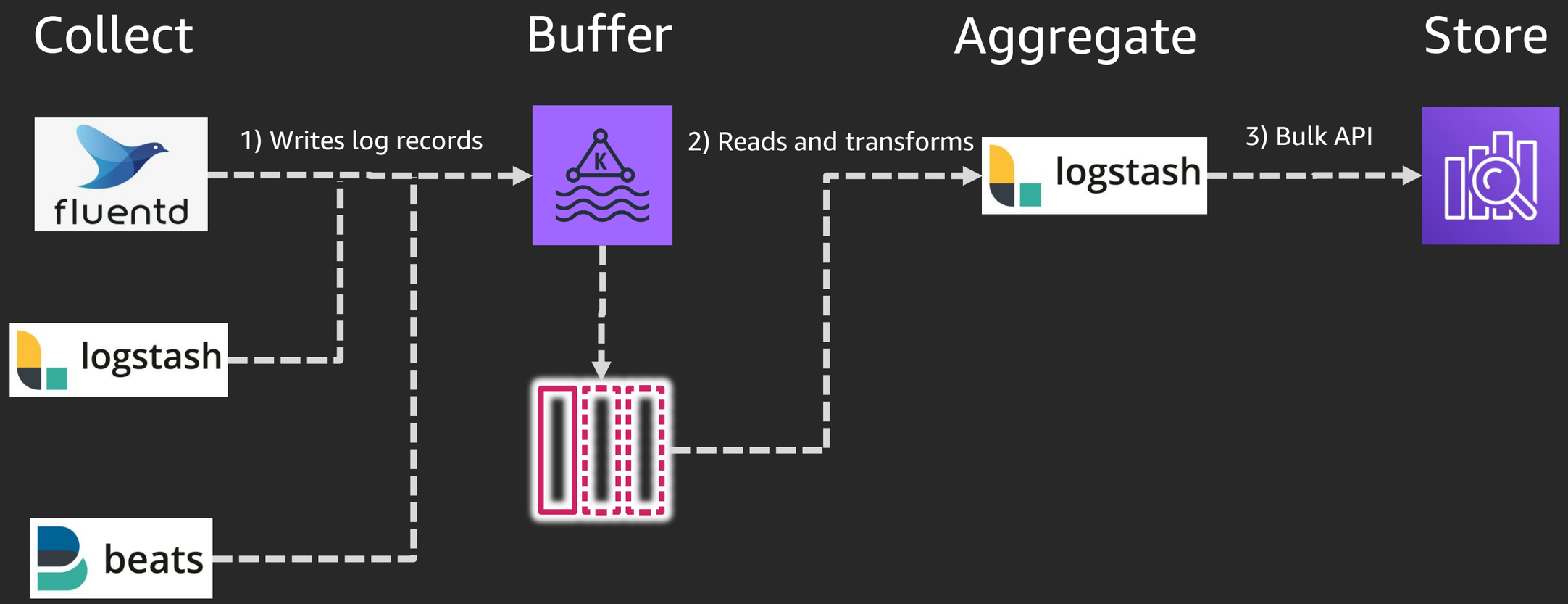
# Amazon Kinesis approach – Lambda indexers



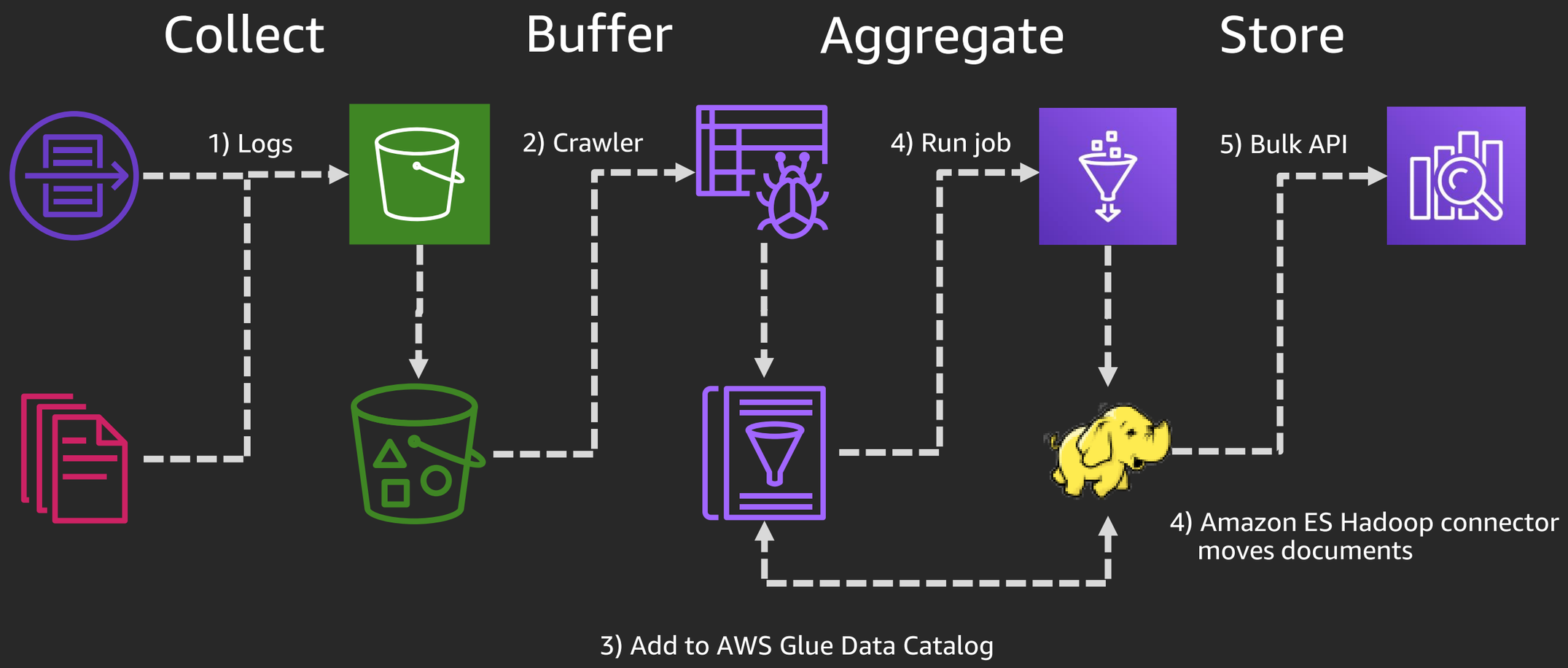
# Amazon Kinesis approach – Logstash indexers



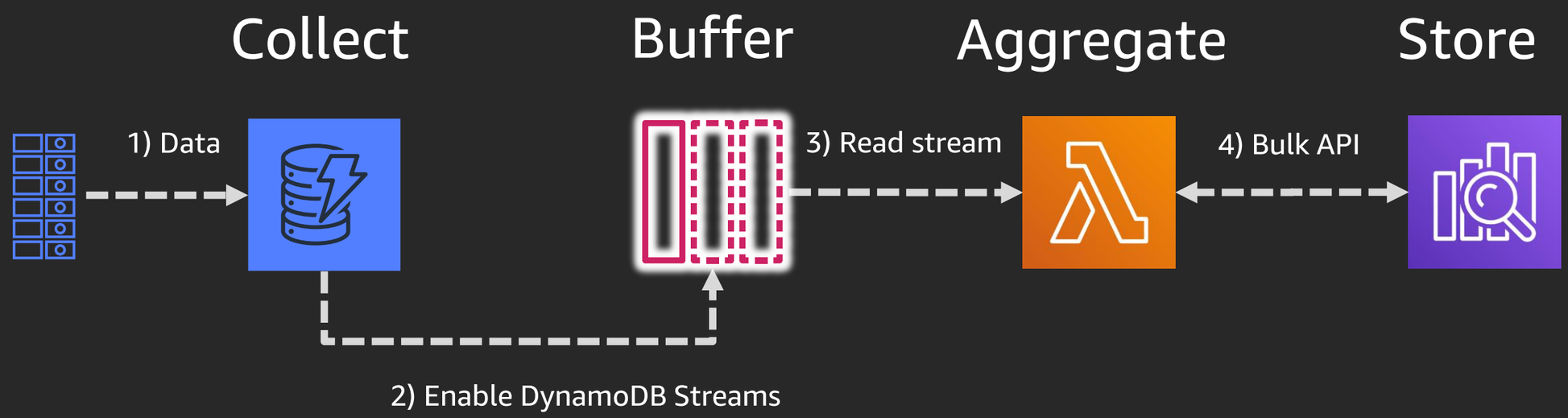
# Amazon MSK approach – Logstash indexers



# AWS Glue approach

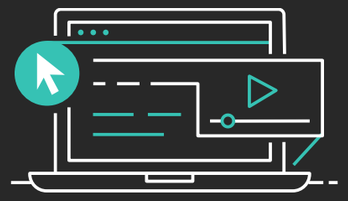


# Amazon DynamoDB Streams approach



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# Thank you!

**Kevin Fallis**

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