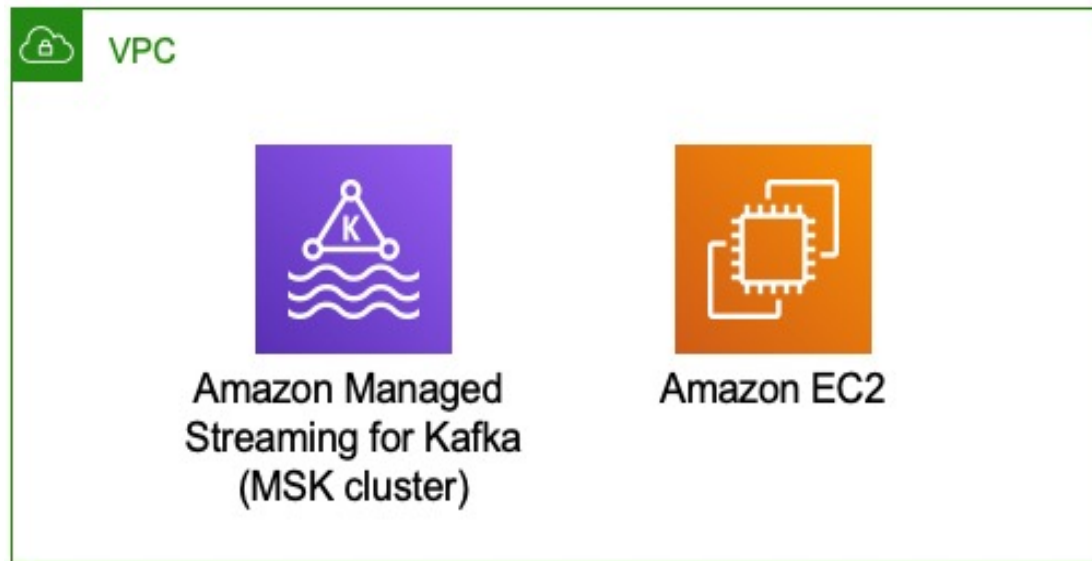# AWS Streaming Data Solution for Amazon MSK

**Option 1: AWS CloudFormation template using Amazon Managed Streaming for Apache Kafka (Amazon MSK)**
Deploy a solution that automatically configures the AWS services necessary to easily capture, store, process, and deliver streaming data using Amazon MSK. To deploy this solution using the available AWS CloudFormation template, select **Deploy with AWS**.

**1** An Amazon MSK cluster.

**2** An **Amazon EC2** instance that contains the Apache Kafka client libraries required to communicate with the **Amazon MSK** cluster. This client machine is located on the same VPC as the cluster, and it can be accessed via AWS Systems Manager Session Manager.
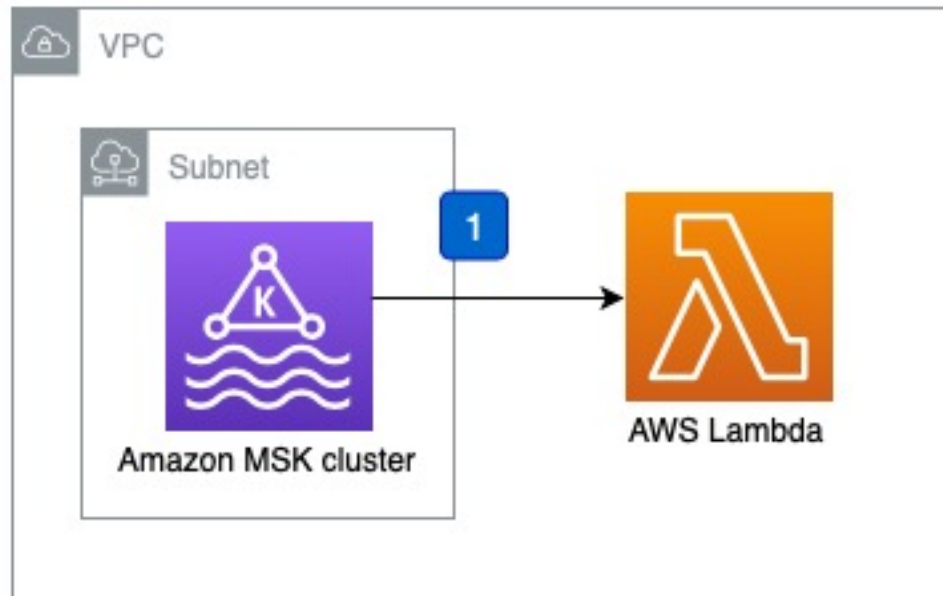


VPC

Amazon Managed Streaming for Kafka (MSK cluster)

Amazon EC2

**Deployable AWS Reference Implementation**

Deploy with AWS

# AWS Streaming Data Solution for Amazon MSK

**Option 2: AWS CloudFormation template using Amazon MSK and AWS Lambda**
Deploy a solution that automatically configures the AWS services necessary to easily capture, store, process, and deliver streaming data using Amazon MSK. To deploy this solution using the available AWS CloudFormation template, select **Deploy with AWS**.

**1** An **AWS Lambda** function that processes process records in a Kafka topic. The default function is a Node.js application that logs the received messages, but it can be customized to meet your business needs.
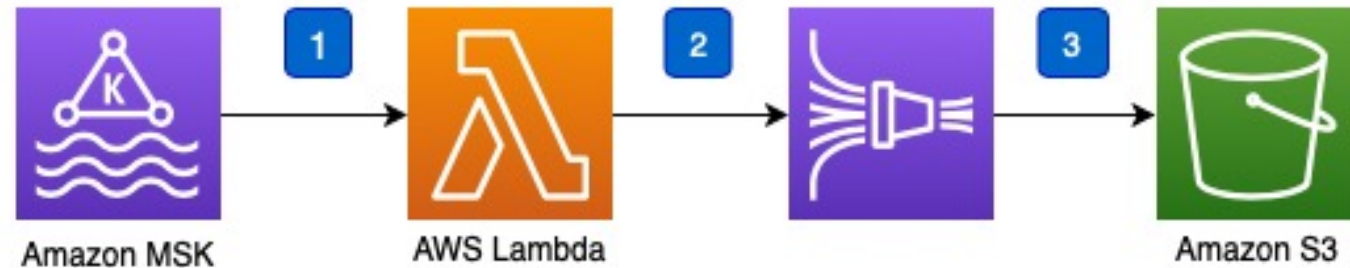
**Deployable AWS Reference Implementation**

**Deploy with AWS**

# AWS Streaming Data Solution for Amazon MSK

**Option 3: AWS CloudFormation template using Amazon MSK, AWS Lambda, and Amazon Kinesis Firehose**
Deploy a solution that automatically configures the AWS services necessary to easily capture, store, process, and deliver streaming data using Amazon MSK. To deploy this solution using the available AWS CloudFormation template, select **Deploy with AWS**.



**1** An **AWS Lambda** function that processes process records in a Kafka topic.

**2** An **Amazon Kinesis Data Firehose** delivery stream that buffers data before delivering it to the destination.

**3** An **Amazon S3** bucket that stores all original events from the **Amazon MSK** cluster.

**Deployable AWS Reference Implementation**

**Deploy with AWS**

# AWS Streaming Data Solution for Amazon MSK

**Option 4: AWS CloudFormation template using Amazon MSK, Amazon Kinesis Data Analytics, and Amazon S3**
Deploy a solution that automatically configures the AWS services necessary to easily capture, store, process, and deliver streaming data using Amazon MSK. To deploy this solution using the available AWS CloudFormation template, select **Deploy with AWS**.

**1** An **Amazon Kinesis Data Analytics** application that reads events from an existing topic in an **Amazon MSK** cluster.

**2** An **Amazon S3** bucket that stores the output of the demo application.



VPC

Amazon MSK cluster → Amazon Kinesis Data Analytics → Amazon S3

**Deployable AWS Reference Implementation**

**Deploy with AWS**