Create cluster

General

Cluster name
You can't change it after you create the cluster.
pinot-quickstart-msk-demo
The name must be unique and can have a maximum of 64 characters.

Apache Kafka version
The Apache Kafka version that you want on the brokers. Learn more
2.2.1 (recommended)

Configuration

A configuration is a set of properties that determine how MSK sets up your cluster. You can use the default configuration that MSK provides or create a custom configuration. Learn more

- (•) Use the MSK default configuration
  Create a new configuration using MSK defaults to get you started quickly. You can apply another configuration after you create the cluster. Learn more
- ( ) Use a custom configuration supporting Apache Kafka 2.2.1

Networking

The Amazon VPC, Availability Zones, and subnets where you want Amazon MSK to deploy your brokers. Learn more

VPC
Defines the virtual networking environment for this cluster. You can't change this setting after you create the cluster. Learn more
vpc-0dc0ee7041cde55fc (eksctl-pinot-quickstart-...
Create VPC

Number of Availability Zones
Specifies the number of isolated zones in which brokers are distributed. You can't decrease this number after the cluster is created.
- ( ) 3 (recommended)
- (•) 2

First Availability Zone

Availability Zone
us-west-2b

Subnet
Brokers will be hosted in this subnet.
subnet-00588c78592fcb8a6 (eksctl-pinot-quickstart-test-cluster/SubnetPri...

Second Availability Zone

Availability Zone
us-west-2a

Subnet
Brokers will be hosted in this subnet.
subnet-0b724bc55523c9f76 (eksctl-pinot-quickstart-test-cluster/SubnetPri...

Brokers

Brokers are the instances on which Amazon MSK runs the Apache Kafka service. They store messages from producers and serve them to consumers. The performance of an MSK cluster is proportional to the number and instance size of brokers. For information about right-sizing your cluster, see best practices in the documentation.

Broker instance type
The EC2 instance type that you want Amazon MSK to use when it creates your brokers. The type of an EC2 instance determines its compute, memory, and storage capabilities. Pricing depends on instance type. Learn more
kafka.t3.small

Number of brokers per Availability Zone
Number of Apache Kafka brokers deployed in each Availability Zone.
1
Minimum: 1. After you create the cluster, you can only increase the number of brokers per Availability Zone.

ⓘ Your cluster will have **2 total brokers**, distributed evenly across your 2 Availability Zones.

Tags - *optional*

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources, apply IAM policies to AWS API, and track your AWS costs. Learn more

Key | Value - *optional* | Remove

Add new tag

Storage

MSK data storage is backed by Elastic Block Storage (EBS) volumes. Amazon Elastic Block Store (Amazon EBS) provides persistent block storage volumes for use with Amazon EC2 instances in the AWS Cloud.

EBS storage volume per broker
You can't decrease the storage after the cluster is created.
10 GiB
Minimum: 1 GiB, maximum: 16384 GiB

Encryption

Encrypt data in transit

Use the Transport Layer Security (TLS) protocol to encrypt data as it travels between brokers within the cluster and as it travels between Apache Kafka clients and the cluster. Learn more

Within the cluster
- [x] Enable encryption within the cluster

Between clients and brokers
- ( ) Only TLS encrypted traffic allowed
- (•) Both TLS encrypted and plaintext traffic allowed
- ( ) Only plaintext traffic allowed

ⓘ Enabling encryption for data in transit affects streaming performance. Learn more

Encrypt data at rest

You can use AWS Key Management Service (KMS) to create and manage customer master keys (CMKs). MSK uses CMKs to encrypt your data at rest. Learn more
- (•) Use AWS managed CMK
  The AWS managed CMK (aws/kafka) is a CMK in your account that is created, managed, and used on your behalf by MSK.
- ( ) Use customer managed CMK
  Customer managed CMKs are CMKs in your AWS account that you create, own, and manage.

Authentication

Use private TLS certificates to authenticate the identity of clients that connect to an Amazon MSK cluster. Learn more

- [ ] Enable TLS client authentication

Monitoring

Amazon CloudWatch metrics for this cluster

Enhanced metrics are available for an additional cost. Learn more
- (•) Basic monitoring
  Includes basic cluster-level and broker-level metrics. Available for free.
- ( ) Enhanced broker-level monitoring
  Includes basic monitoring and enhanced broker-level metrics. Available at additional cost.
- ( ) Enhanced topic-level monitoring
  Includes enhanced broker-level monitoring and enhanced topic-level metrics. Available at additional cost.

Open monitoring with Prometheus

Prometheus is an open-source monitoring system for time-series metric data. You can also use tools that are compatible with Prometheus-formatted metrics. Learn more
- [ ] Enable open monitoring with Prometheus
  When you enable open monitoring with Prometheus, you can expose metrics using the JMX Exporter, the Node Exporter, or both. These metrics include cluster-level, broker-level, and topic-level information. Open monitoring is available for free but charges apply for the transfer of data across Availability Zones.

Broker log delivery

Broker logs enable you to troubleshoot your Apache Kafka applications and analyze communications with your MSK cluster. Amazon MSK doesn't charge for sending the logs. However, ingestion and storage charges apply based on the destination. Learn more
- [ ] Deliver to Amazon CloudWatch Logs
  Analyze, query, and set alarms on the logs.
- [ ] Deliver to Amazon S3
  Store and retrieve raw logs in object storage.
- [ ] Deliver to Amazon Kinesis Data Firehose
  Capture, transform, and deliver logs to Amazon Elasticsearch Service or other Kinesis Data Firehose destinations.

▸ Advanced settings

To further customize advanced settings, use the CLI to create the cluster. Learn more

ⓘ A typical cluster takes up to 15 minutes to create.

Cancel | Create cluster