

# Services → Cloud Formation → Create New Stack

CloudFormation > Stacks > Create Stack

## Create stack

**Select Template**

Select the template that describes the stack that you want to create. A stack is a group of related resources that you manage as a single unit.

**Design a template** Use AWS CloudFormation Designer to create or modify an existing template. [Learn more.](#)

[Design template](#)

**Choose a template** A template is a JSON/YAML-formatted text file that describes your stack's resources and their properties. [Learn more.](#)

☐ Select a sample template

☐ Upload a template to Amazon S3

[Choose file](#) No file chosen

☒ Specify an Amazon S3 template URL

[View/Edit template in Designer](#)

[Cancel](#) [Next](#)

CloudFormation > Stacks > Create Stack

## Create stack

[Select Template](#)

**Specify Details**

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. [Learn more.](#)

**Stack name**

**Parameters**

**ApplicationArchive**  A publicly accessible URL to the sample application archive as produced by 'mvn package'

**InstanceType**  EC2 instance type

**KeyName**

(Optional) Name of an existing EC2 KeyPair to enable SSH access to the instance. If this is not provided you will not be able to SSH on to the EC2 instance.

**SSHLocation**  The IP address range that can be used to SSH to the EC2 instances

[Cancel](#) [Previous](#) [Next](#)

# Create stack

- Select Template
- Specify Details
- Options
- Review

### Options

#### Tags

You can specify tags (key-value pairs) for resources in your stack. You can add up to 50 unique key-value pairs for each stack. [Learn more.](#)

	Key (127 characters maximum)	Value (255 characters maximum)	
1	<input type="text"/>	<input type="text"/>	<input data-bbox="1268 215 1294 234" type="button" value="+"/>

#### Permissions

You can choose an IAM role that CloudFormation uses to create, modify, or delete resources in the stack. If you don't choose a role, CloudFormation uses the permissions defined in your account. [Learn more.](#)

IAM Role

Choose a role (optional)

Enter role arn

▸ Advanced

You can set additional options for your stack, like notification options and a stack policy. [Learn more.](#)

Cancel

Previous

Next

### Details

Stack name	MyKinesisStack
ApplicationArchive	https://github.com/aws-labs/amazon-kinesis-data-visualization-sample/releases/download/v1.1.1/amazon-kinesis-data-visualization-sample-1.1.1-assembly.zip
InstanceType	t2.micro
KeyName	
SSHLocation	0.0.0.0/0

### Options

#### Tags

No tags provided

#### Advanced

Notification	none
Timeout	none
Rollback on failure	Yes

### Capabilities

i

The following resource(s) require capabilities: [AWS::IAM::Role]  
This template contains Identity and Access Management (IAM) resources that might provide entities access to make changes to your AWS account. Check that you want to create each of these resources and that they have the minimum required permissions. [Learn more.](#)

☒ I acknowledge that AWS CloudFormation might create IAM resources.

Cancel

Previous

Create

CloudFormation

Stacks

Create Stack

Actions

Design template

Filter: Active

By Stack Name

Showing 1 stack

	Stack Name	Created Time	Status	Description
<input checked="" type="checkbox"/>	MyKinesisStack	2017-03-05 11:05:23 UTC-0800	CREATE_COMPLETE	The Amazon Kinesis Data Visualization Sample Application

Overview

Outputs

Resources

Events

Template

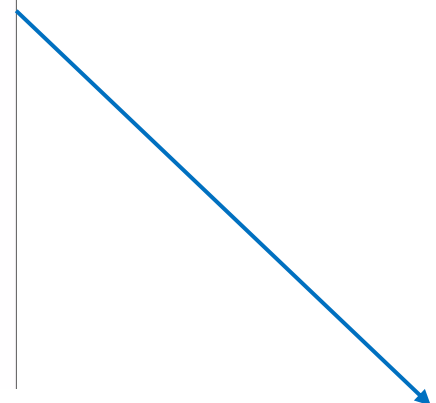
Parameters

Tags

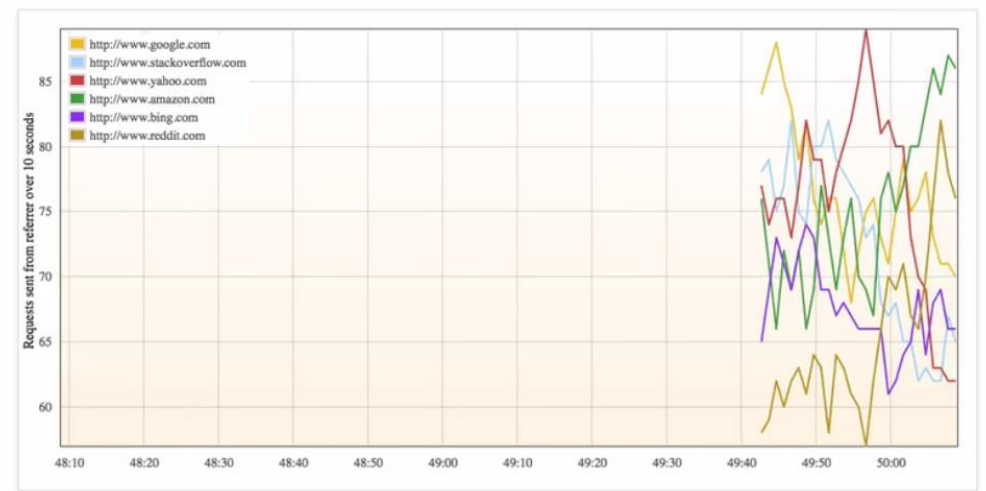
Stack Policy

Change Sets

Key	Value	Description	Export Name
CountsTable	MyKinesisStack-CountsDynamoDBTable-SL17WR0RAYI9	The name of the DynamoDB table where counts are per...	
StreamName	MyKinesisStack-KinesisStream-X4K6M22B85FQ	The name of the Kinesis Stream. This was autogenerate...	
ApplicationName	MyKinesisStack-KCLDynamoDBTable-XL26W4AIE8NV	The name of the Kinesis Client Application. This was aut...	
InstanceId	i-0f44a6b6000e3397b	InstanceId of the newly created EC2 instance	
AZ	us-east-1c	Availability Zone of the newly created EC2 instance	
URL	<a href="http://ec2-34-200-106-156.compute-1.amazonaws.com">http://ec2-34-200-106-156.compute-1.amazonaws.com</a>	URL to the sample application's visualization	



This graph displays the last 120 seconds of counts as calculated by the Amazon Kinesis Data Visualization Sample Application.



Top 3 referrers by counts (Updated every 2000ms):

<a href="http://www.google.com">http://www.google.com</a>	2064
<a href="http://www.yahoo.com">http://www.yahoo.com</a>	2052
<a href="http://www.amazon.com">http://www.amazon.com</a>	2027

Data last updated by: ip-172-31-21-67

EC2 instance Running



Launch Instance

Connect

Actions ▾



Filter by tags and attributes or search by keyword



1 to 1 of 1

<input type="checkbox"/>	Name ▾	Instance ID ▴	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status	Public DNS (IPv4) ▾	IPv4 Public IP ▾	IPv6 IPs ▾
<input type="checkbox"/>		i-0f44a6b6000e3397b	t2.micro	us-east-1c	 running	 2/2 checks ...	None	 ec2-34-200-106-156.co...	34.200.106.156	-

## Amazon Kinesis

Amazon Kinesis services make it easier to work with real-time streaming data in the AWS Cloud.



### Amazon Kinesis Firehose

Continuously deliver streaming data to Amazon S3, Amazon Redshift, and Amazon Elasticsearch Service.

[Go to Firehose](#)

[Learn more about Firehose](#)



### Amazon Kinesis Analytics

Analyze streaming data from Amazon Kinesis Firehose and Amazon Kinesis Streams in real-time using SQL.

[Go to Analytics](#)

[Learn more about Analytics](#)



### Amazon Kinesis Streams

Collect and stream data for ordered, replayable, real-time processing.

[Go to Streams](#)

[Learn more about Streams](#)

## Streams

An Amazon Kinesis stream is an ordered sequence of data records. To add data to a stream, configure producers using the Streams PUT API or the Amazon Kinesis Producer Library (KPL). [Learn more](#)

Total shards in use: 2 Total shards remaining: 48 ⓘ

Create stream

Actions ▾

Filter or search by stream name

« < Viewing 1 - 1 of 1 items > »

Stream name	Number of shards	Status
<input type="checkbox"/> MyKinesisStack-KinesisStream-X4K6M22B85FQ	2	ACTIVE

« < Viewing 1 - 1 of 1 items > »

Services → Analytics → Kinesis

MyKinesisStack-KinesisStream-X4K6M22B85FQ [Delete stream](#)

Details

Monitoring

Tags

**Stream ARN** `arn:aws:kinesis:us-east-1:184549737037:stream/MyKinesisStack-KinesisStream-X4K6M22B85FQ`

**Status** ACTIVE

**Sending data to the stream** Configure data producers to send data using the Streams PUT API or the Kinesis producer library. [Learn more](#)

**Receiving and processing data**

- Kinesis Streams:** Build a custom application to process or analyze streaming data using the Kinesis Client Library. [Learn more](#)
- Kinesis Firehose:** Connect your Kinesis stream to a Firehose delivery stream. [Go to Kinesis Firehose](#)
- Kinesis Analytics:** Analyze streaming data from Kinesis Streams in real time using SQL. [Go to Kinesis Analytics](#)

Shards

Edit

Amazon Kinesis Streams supports resharding, which enables you to adjust the number of shards in your stream to adapt to changes in the rate of data flowing through the stream. [Learn more](#)

**Open shards** 2 ⓘ

**Closed shards** 0 ⓘ

Data retention period

Edit

The data retention period can be increased from 24 hours up to 168 hours for an additional cost. See [Kinesis Streams pricing](#).

**Data retention period** 24 hours ⓘ

Shard level metrics

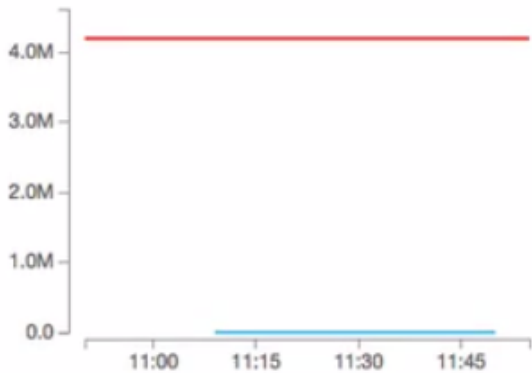
Edit

Enabling shard level metrics will make data available in 1-minute periods at an additional cost. See "Custom Metrics" in [CloudWatch pricing](#).

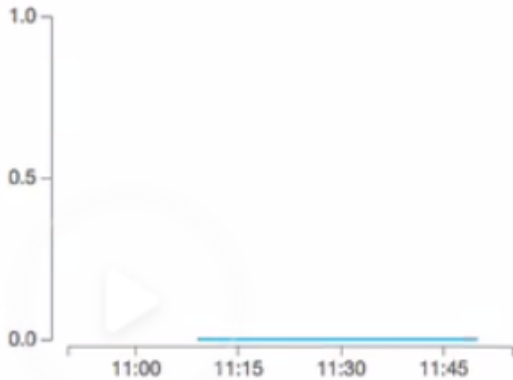
**Shard level metrics** No shard level metrics enabled

Time range: Last hour    Statistic: Average    Period: 1 minute    [Refresh] [Help]

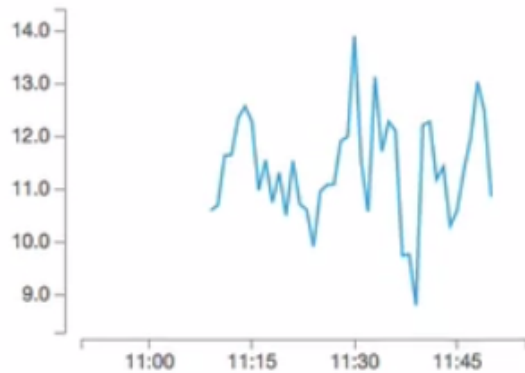
Get Records (bytes)



Get Records Iterator Age (ms)



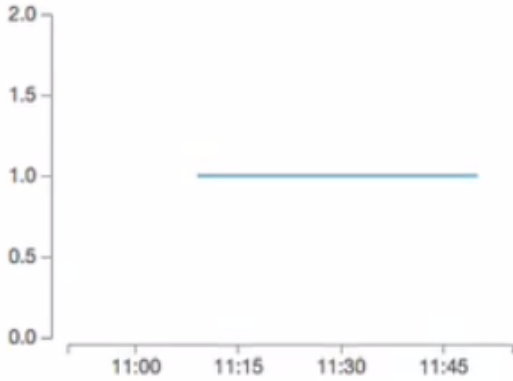
Get Records Latency (ms)



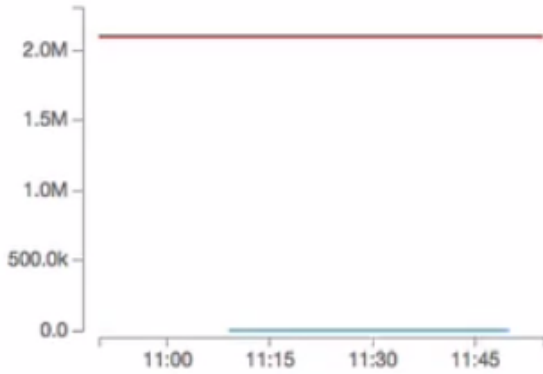
Get Records (records/second)



Get Records (success count)



Incoming Data (bytes)

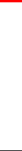


Incoming Data (record count)

Put Record (bytes)

Put Record Latency (ms)

Services → DynamoDB



DynamoDB
Dashboard
Tables
Reserved capacity

Create table

Actions

MyKinesisStack-KCLDynamoDBTable-XL26W4AIE8N

Active

leaseKey (String)

-

0

10

5

MyKinesisStack-CountsDynamoDBTable-SL17WR0R

Active

resource (String)

timestamp (String)

0

10

5

[illegible]

Create Stack

Actions

Design template

Filter: Active

Showing 1 stack

Stack Name

Status

Description



MyKinesisStack

0300

CREATE\_COMPLETE

The Amazon Kinesis Data Visualization Sample Application

Create Change Set For Current Stack

Update Stack

Delete Stack

View/Edit template in Designer