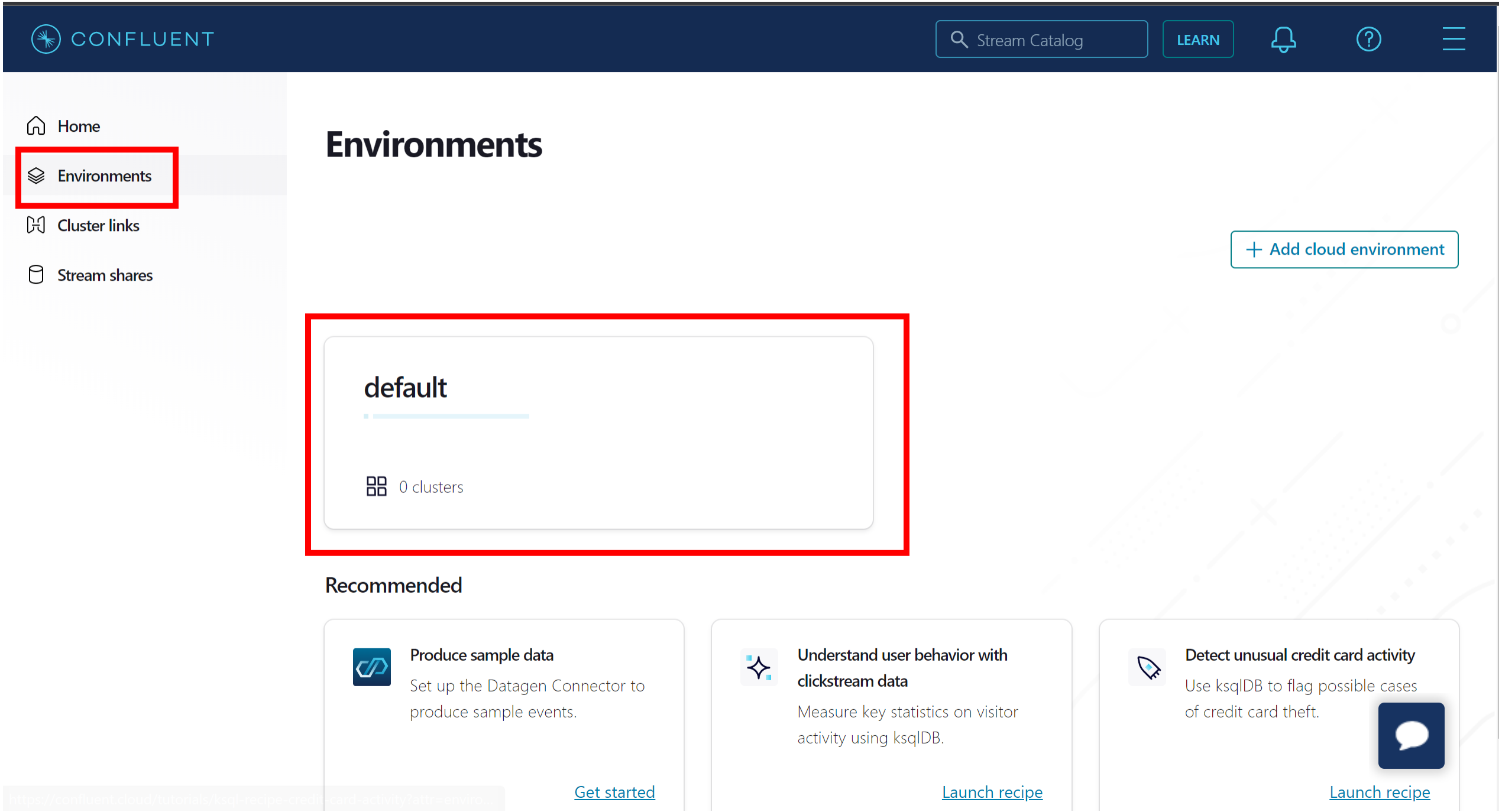
KAFKA & MONGODB SETUP

STEP BY STEP SS

@TiyyaguraChandraReddy



CONFLUENT

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- Cluster links
- Stream shares

default

Clusters | Network management

A Kafka cluster consists of one or more servers (Kafka brokers) running Kafka. Within these brokers, are Kafka topics that hold data that is being produced and consumed. In order to get started with using your data and all the services Confluent Cloud has to offer, the first step is to create the cluster your topics (in other words, data) will live inside.

Get started with tutorial | Create cluster on my own

default

ID: env-zgwod3

Stream Governanc

Enable Stream Gover

Registry, Stream Cata

Schemas

Stream Governanc

Schema Registry and St

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Create cluster

1. Select cluster type

Recommended

Basic

For learning and exploring Kafka and Confluent Cloud.

Ingress	up to 250 MB/s
Egress	up to 750 MB/s
Storage	up to 5,000 GB
Client connections	up to 1,000
Partitions	up to 4,096 (includes 10 free partitions)
Uptime SLA	up to 99.5%

Begin configuration

Starting at

FREE

Upgrade to Standard at any time

Standard

For production-ready use cases. Full feature set and standard limits.

Ingress	up to 250 MB/s
Egress	up to 750 MB/s
Storage	unlimited
Client connections	up to 1,000
Partitions	up to 4,096 (includes 500 free partitions)
Uptime SLA	up to 99.99%

Begin configuration

Starting at

$1.50 /hr

Dedicated

For use cases with high traffic or that require private networking.

Price as sized: 1 CKU

Ingress	up to 50 MB/s
Egress	up to 150 MB/s
Storage	unlimited
Client connections	up to 9,000
Partitions	up to 4,500
Uptime SLA	up to 99.99%

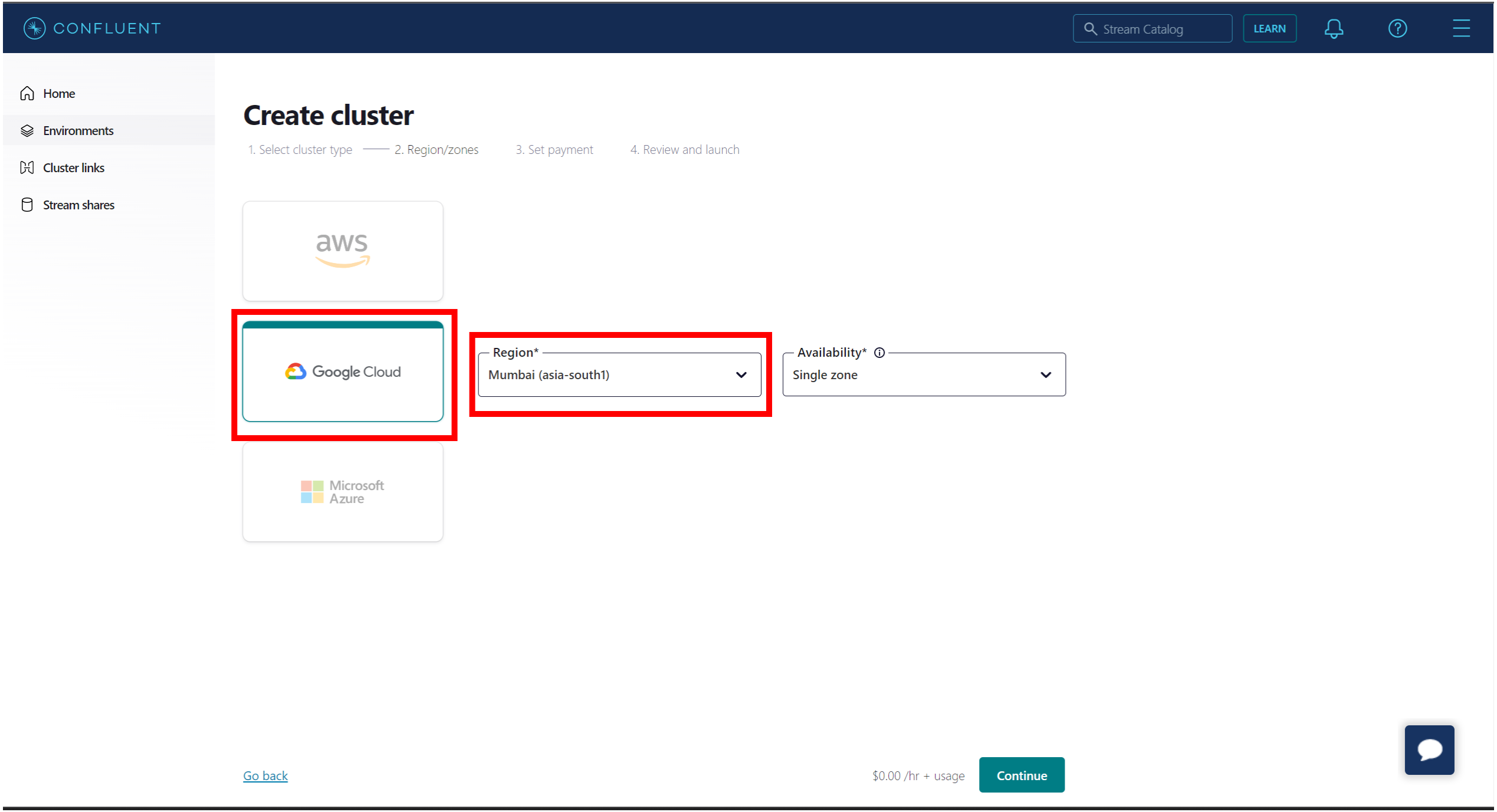
Begin configuration

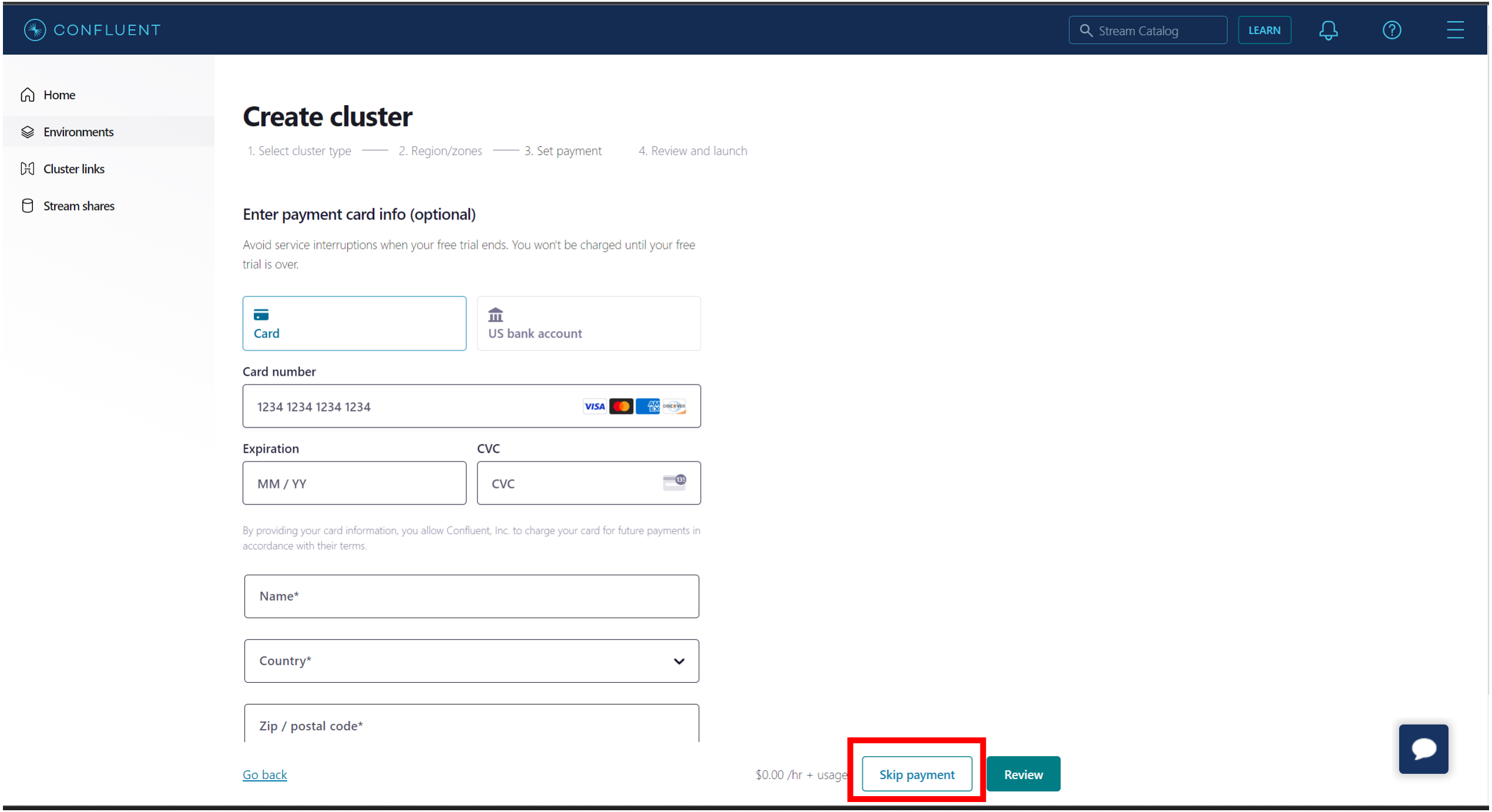
Starting at

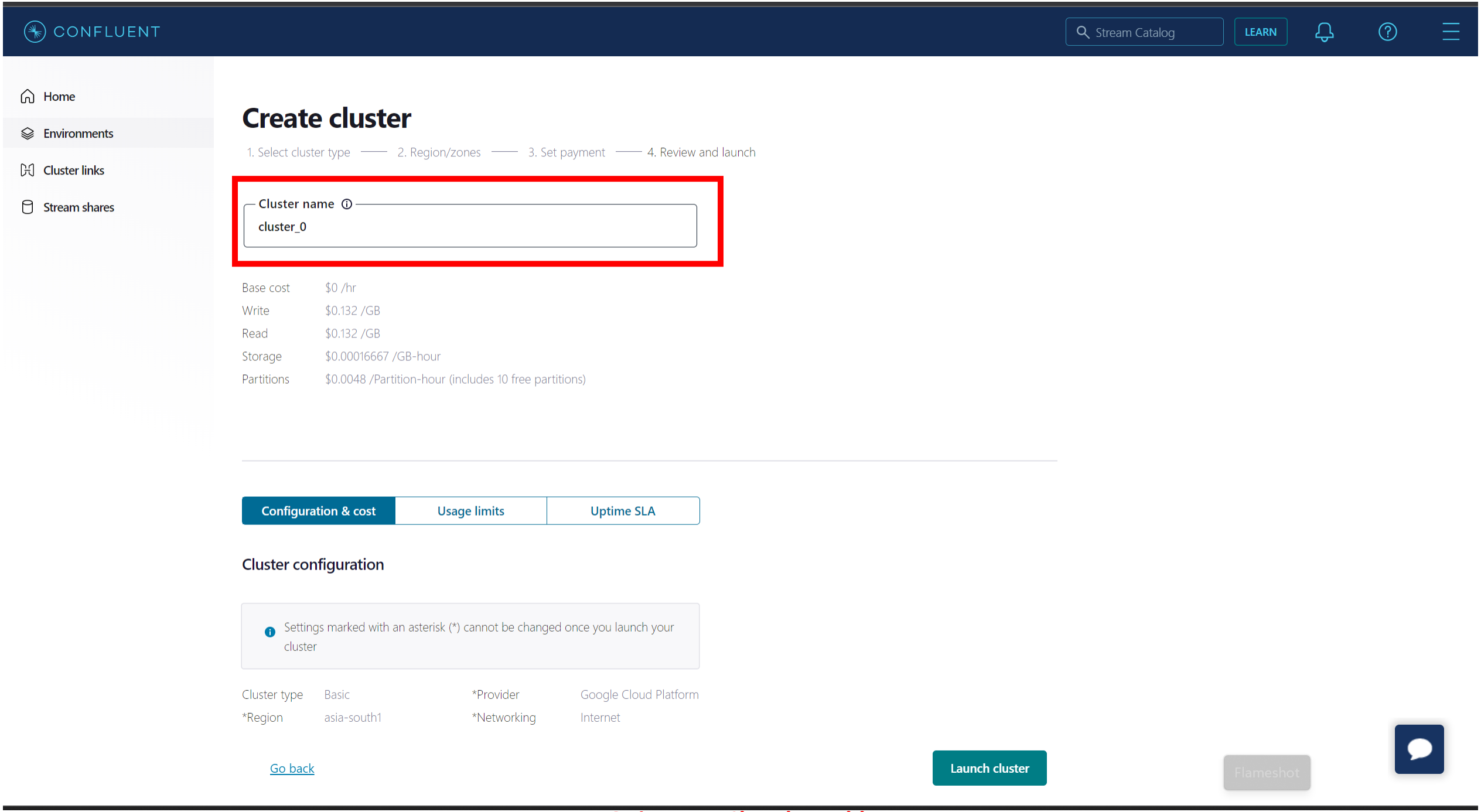
$2.66 /hr

View all specs

I'll do it later







CONFLUENT

Stream Catalog | LEARN

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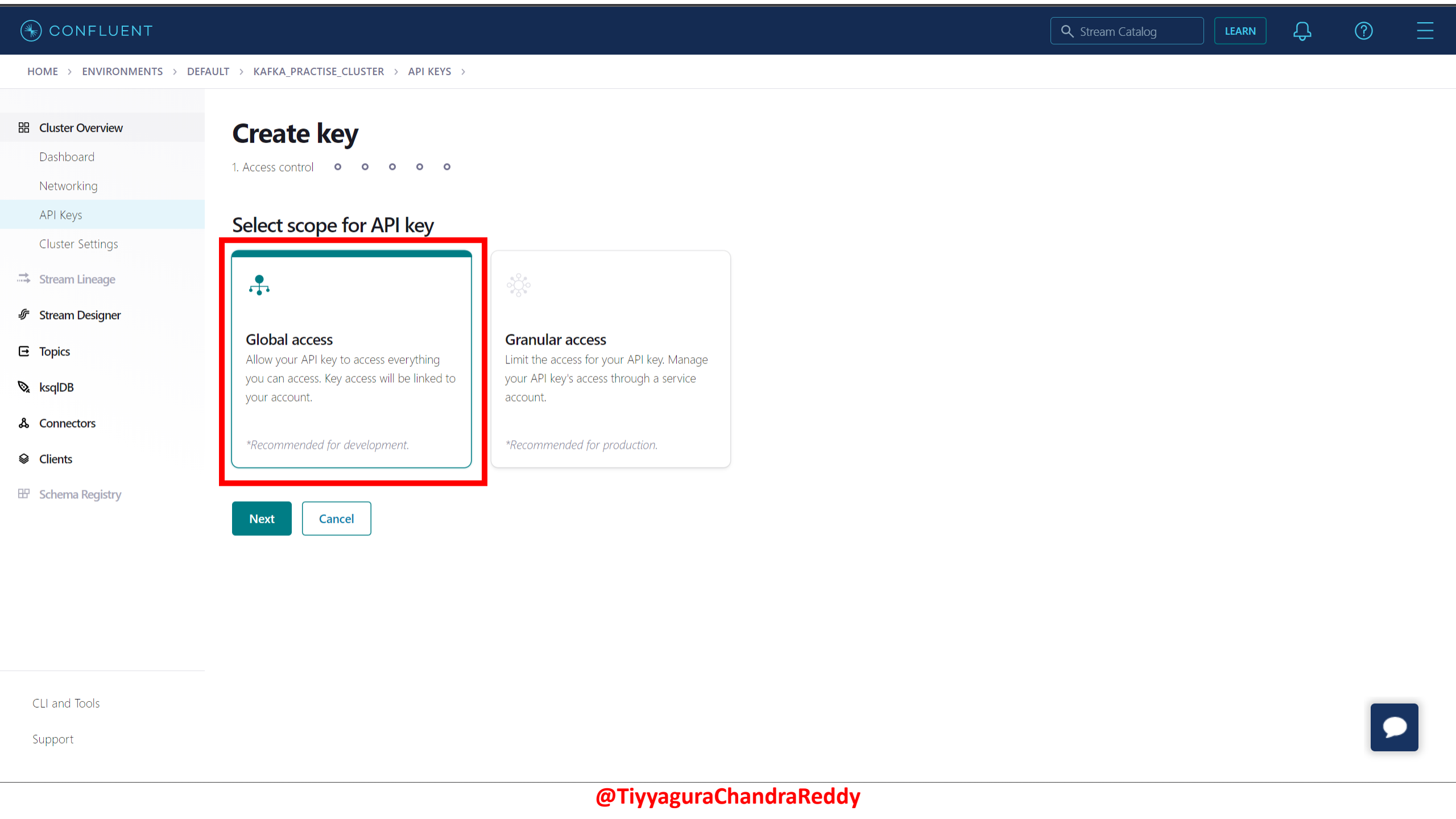
- Cluster Overview
  - Dashboard
  - Networking
  - API Keys
  - Cluster Settings
- Stream Lineage
- Stream Designer
- Topics
- ksqlDB
- Connectors
- Clients
- Schema Registry

- CLI and Tools
- Support

API keys

An API key consists of a key and a secret. Kafka API keys are required to interact with Kafka clusters in Confluent Cloud. Each Kafka API key is valid for a specific Kafka cluster. To grant API access for this Cloud organization, go here.

Create key | Learn more



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ksqlDB
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Schema Registry

Create key

1. Access control 2. Get your API key

Use this API key to connect with the cluster. Store the API key and secret below somewhere safe. This is the only time you'll see the secret.

These credentials can take up to one minute to propagate.

Description

Download and continue

CLI and Tools
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Topics

A Topic is a category/feed name to which records are stored and published. All Kafka records are organized into topics. Producer applications write data to topics and consumer applications read from topics. Records published to the cluster stay in the cluster until a configurable retention period has passed by.

Create topic

Resources

Tutorial

Get started with Confluent Cloud

Walk through the basic building blocks of Confluent Cloud and learn how to create resources like topics and api keys.

Start tutorial

Video

Apache Kafka 101: Topics

Watch a video on how you can store and organize your events in a kafka topic.

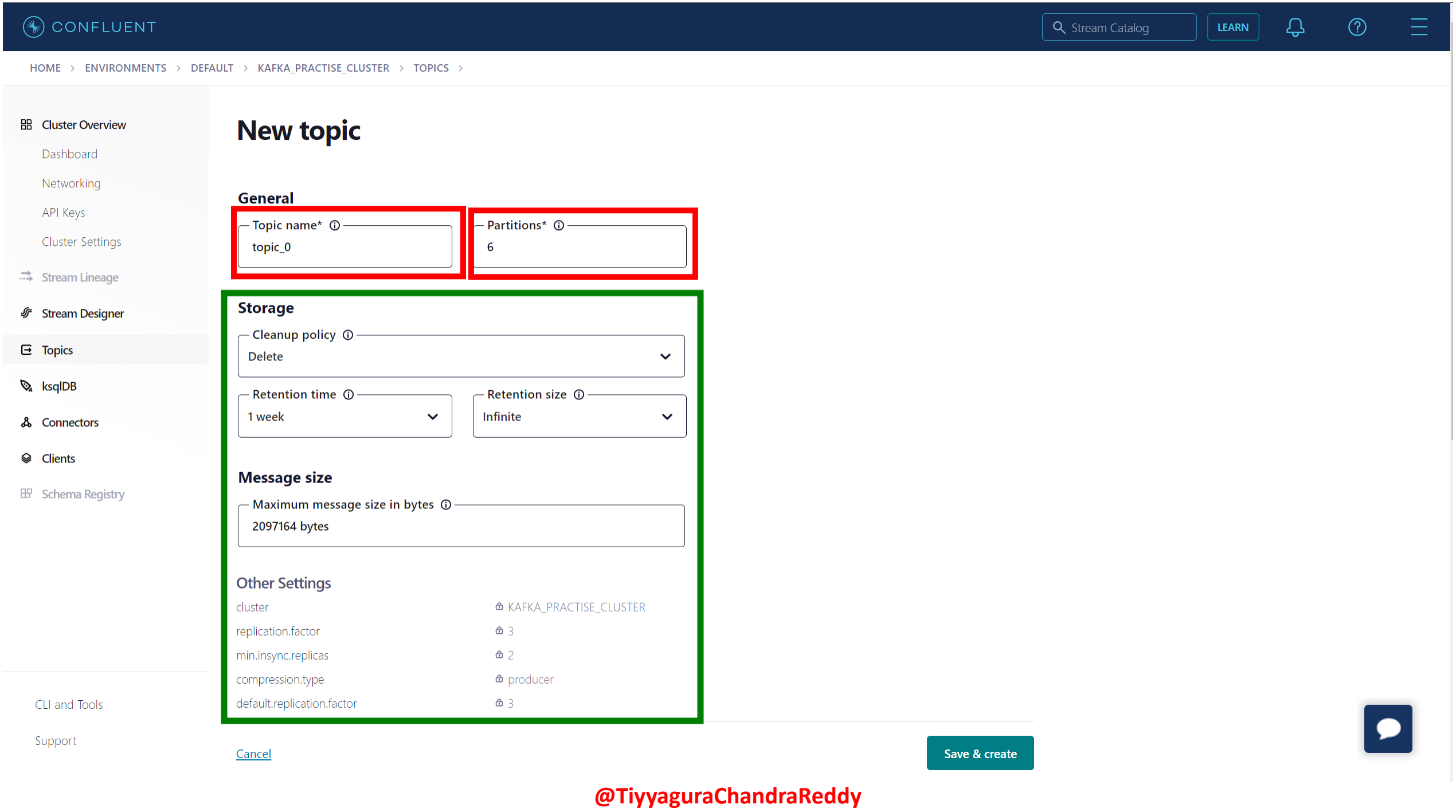
Watch video

Documentation

Confluent documentation on topics

Read Confluent's documentation on Kafka topics and logs.

Read docs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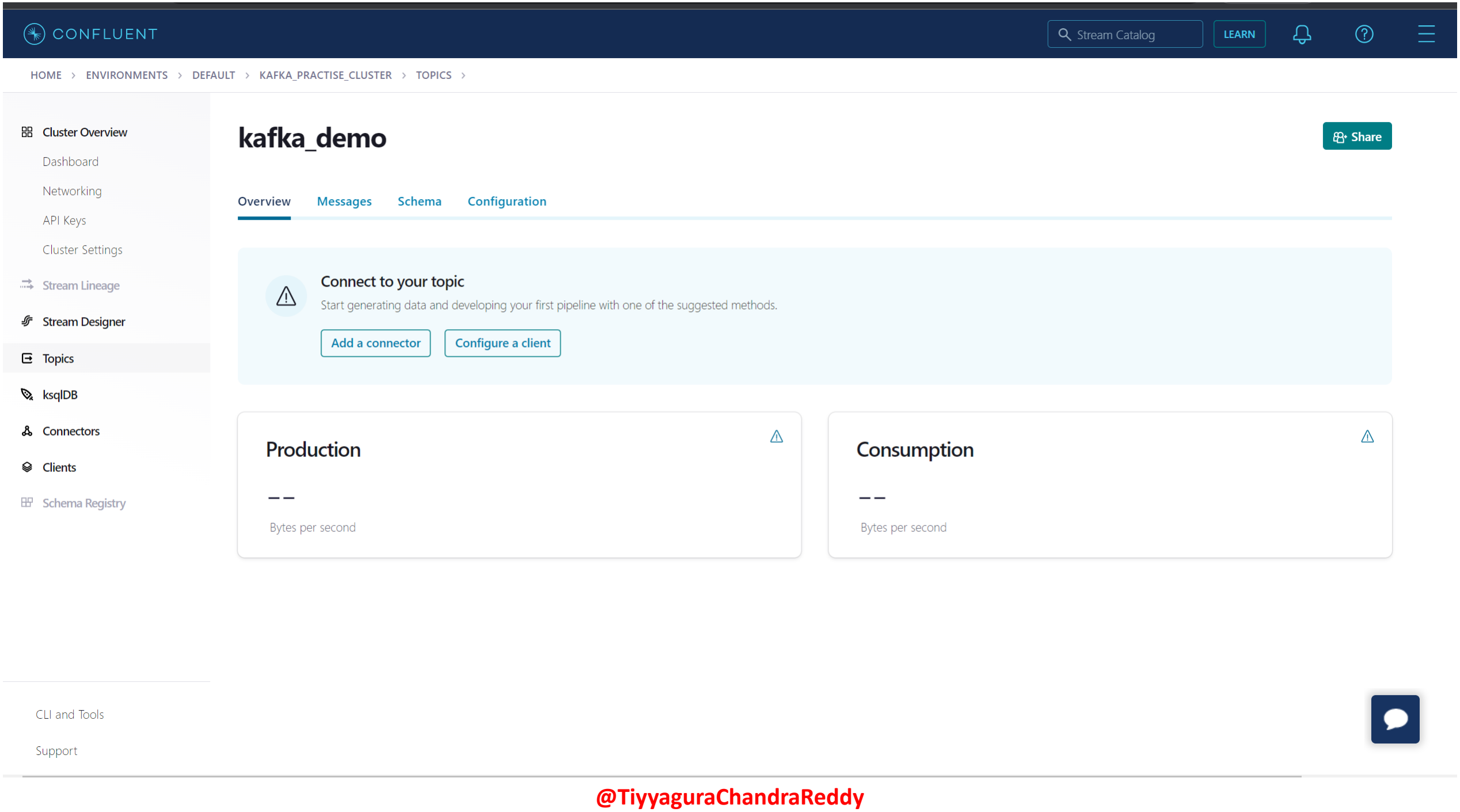
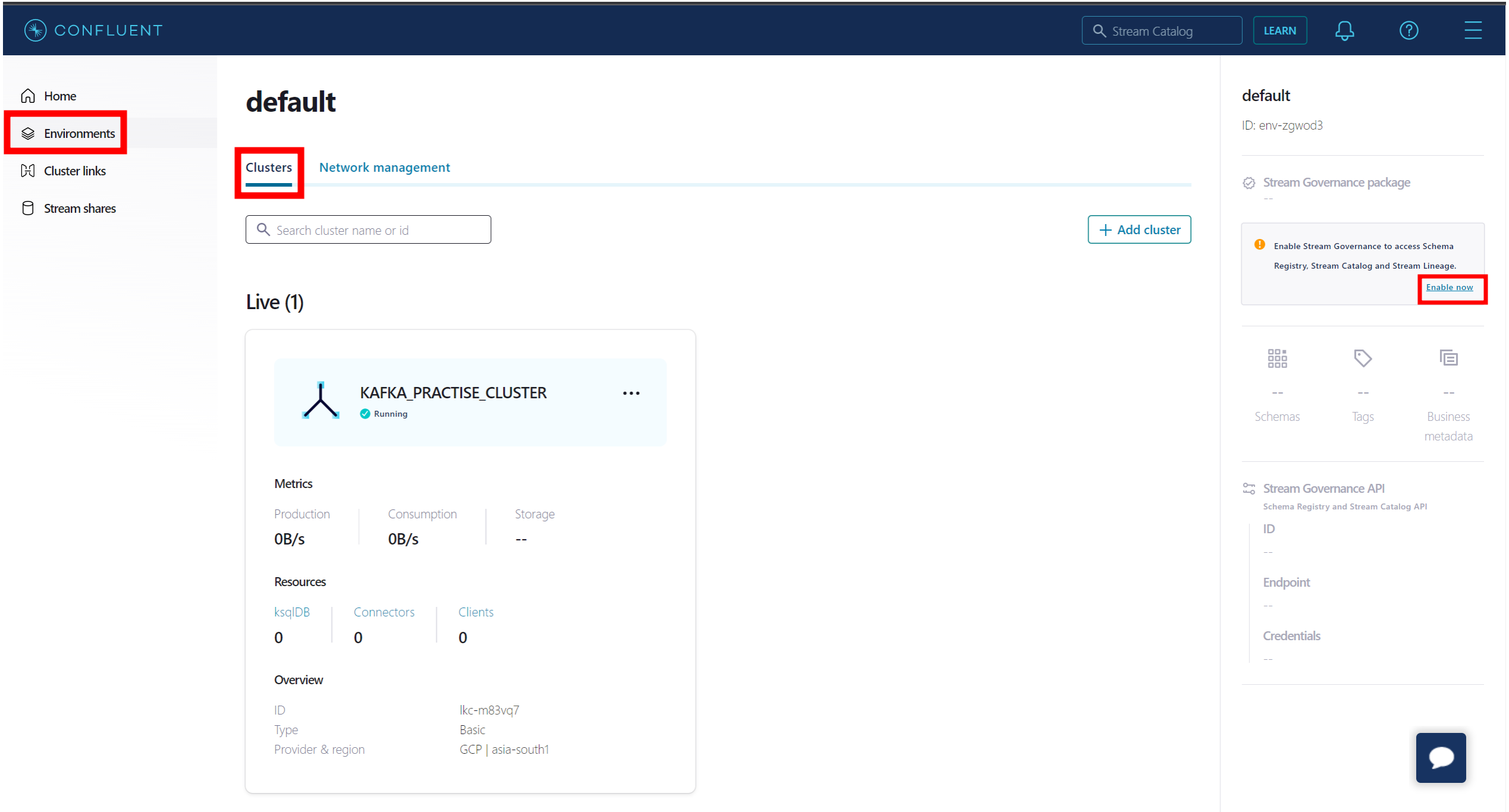
General
Topic name*
topic_0
Partitions*
6
Storage
Cleanup policy
Delete
Retention time
1 week
Retention size
Infinite
Message size
Maximum message size in bytes
2097164 bytes
Other Settings
cluster
KAFKA_PRACTISE_CLUSTER
replication.factor
3
min.insync.replicas
2
compression.type
producer
default.replication.factor
3
Cancel
Save & create
@TiyyaguraChandraReddy





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Stream shares

Stream Governance Packages

Confluent's Stream Governance suite establishes trust in the data streams moving throughout your cloud environments and delivers an easy, self-service experience for more teams to discover, understand, and put streaming data to work.

Essentials

The fundamentals for getting started.

Stream Quality

Schema Registry & validation

- 99.5% uptime SLA
- 1,000 schemas included*
- 9 cloud regions supported

Stream Catalog

Data organization & discoverability

- Auto-technical metadata ingestion
- Tags metadata
- Cloud UI & REST API

Stream Lineage

Data origin & tracking

- Real-time data streams lineage

*Starting at $0.002/schema/hour after 1,000 schemas per environment

Begin configuration

Starting at

FREE

Upgrade to Advanced at any time

Advanced

Enterprise-ready controls for data in motion.

Stream Quality

Schema Registry & validation

- 99.95% uptime SLA
- 20,000 schemas included
- 31 cloud regions supported

Stream Catalog

Data organization & discoverability

- All existing Essentials features +
  - Business metadata
  - GraphQL API

Stream Lineage

Data origin & tracking

- All existing Essentials features +
  - Point-in-time lineage
  - Lineage search

Begin configuration

Starting at

$1 /hr

The full Stream Governance feature set

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Enable Stream Governance Essentials

Select the cloud provider and region where you want the environment Schema Registry and Stream Catalog to run and metadata to be stored. Learn more

The cloud provider and region cannot be changed once you enable the environment package.

aws

Google Cloud

Region*

Sydney (australia-southe...

Microsoft Azure

Go back

$0 /hr + $0.0025 /schema/hr above 1000 schemas usage

Enable

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Clusters | Network management

Search cluster name or id

+ Add cluster

Live (1)

KAFKA_PRACTISE_CLUSTER

Running

Metrics

Production	Consumption	Storage
0B/s	0B/s	0B

Resources

ksqlDB	Connectors	Clients
0	0	0

Overview

ID	lkc-m83vq7
Type	Basic
Provider & region	GCP | asia-south1

default

ID: env-zgwod3

Upgrade available

Stream Governance package

Essentials Upgrade now

Google Cloud Platform | australia-southeast1

Schemas -- Tags -- Business metadata

Stream Governance API

Schema Registry and Stream Catalog API

ID

lsrc-w59785

Endpoint

If you're just getting started, see some usage examples.

Credentials

Add key

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Search cluster name or id

+ Add cluster

Live (1)

KAFKA_PRACTISE_CLUSTER

Running

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0B/s	0B/s	0B

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Credentials

Add key

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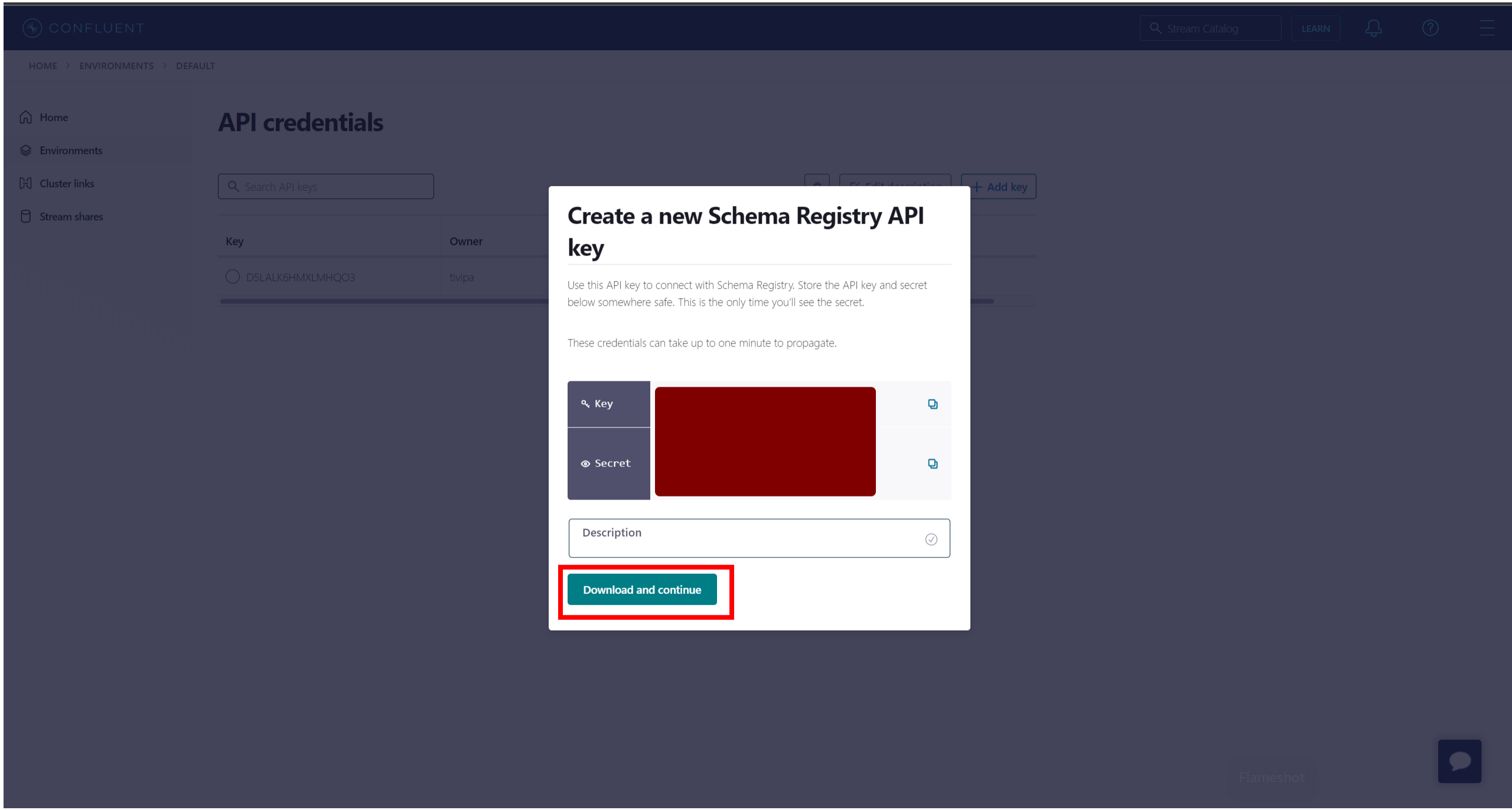
API credentials

Control access to your Schema Registry

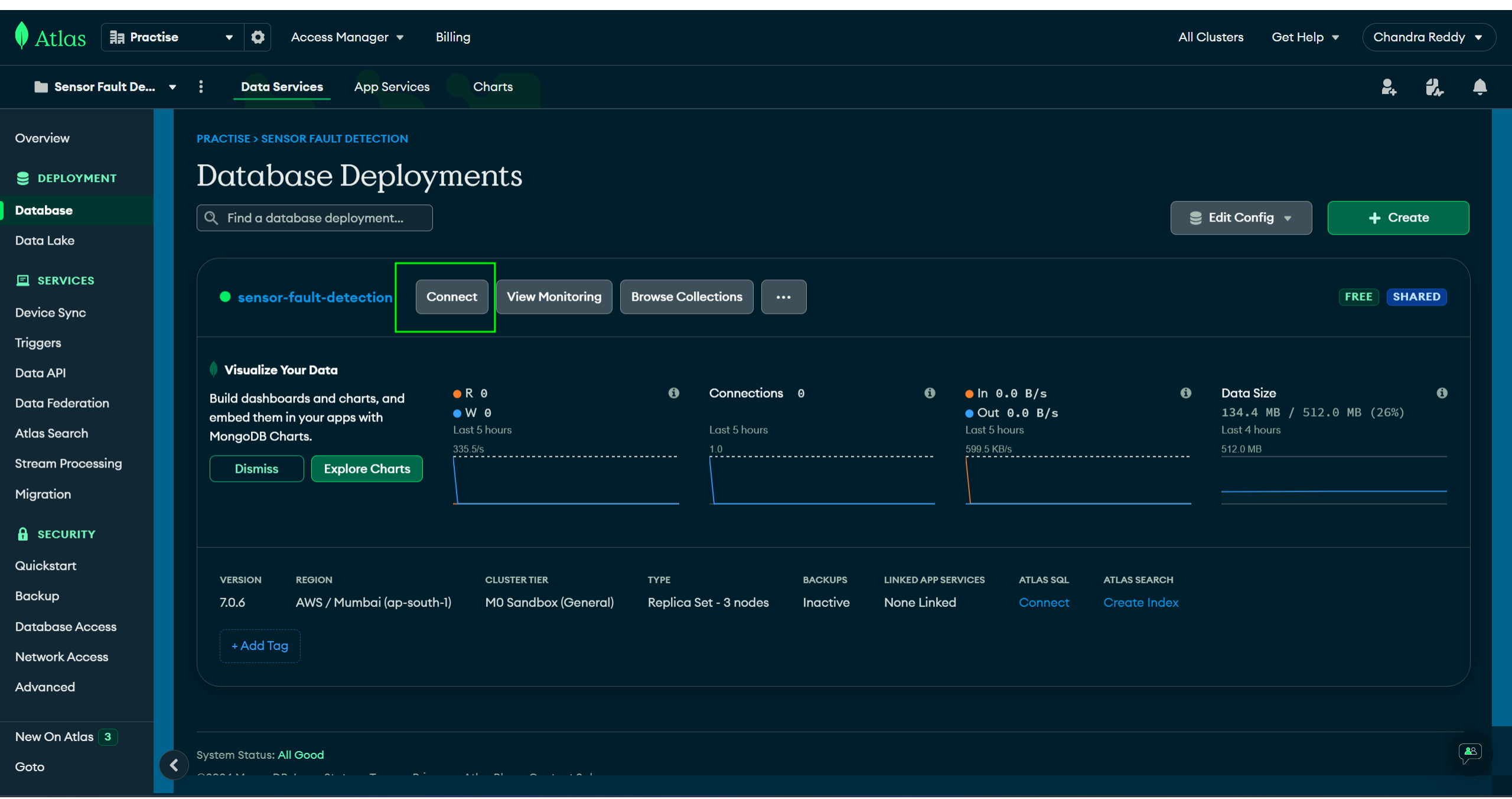
Create API keys to give access to read, edit, and create schemas through the REST API

Create key



How To Get MongoDB URL

@TiyyaguraChandraReddy



Connect to sensor-fault-detection

Set up connection security → 2 Choose a connection method → 3 Connect

Connect to your application

Drivers
Access your Atlas data using MongoDB's native drivers (e.g. Node.js, Go, etc.)

Access your data through tools

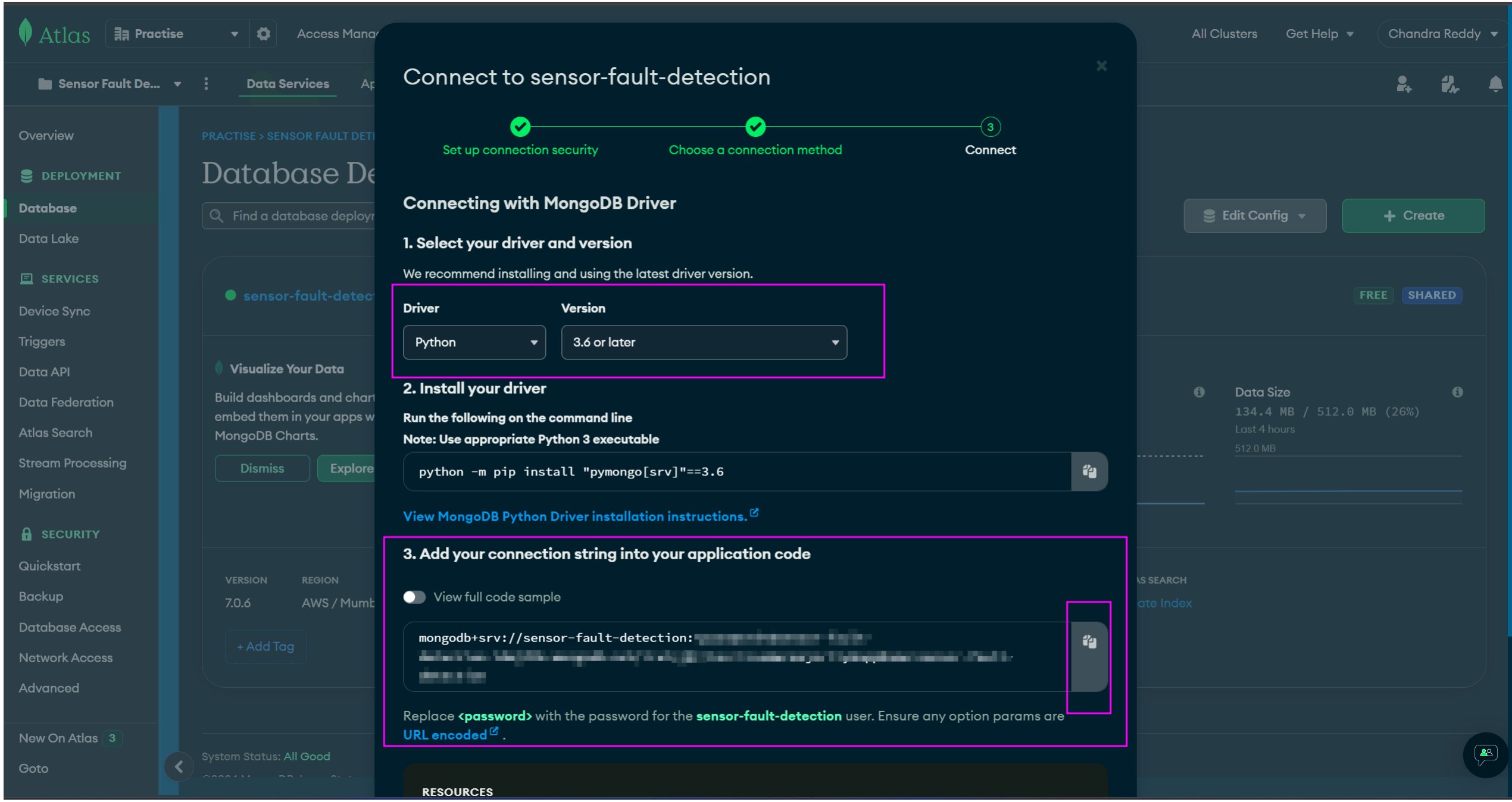
Data Explorer
Browse your Atlas collections without leaving the UI

Compass
Explore, modify, and visualize your data with MongoDB's GUI

Shell
Quickly add & update data using MongoDB's Javascript command-line interface

MongoDB for VS Code
Work with your data in MongoDB directly from your VS Code environment

Atlas SQL
Easily connect SQL tools to Atlas for data analysis and visualization



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Happy Learning!!