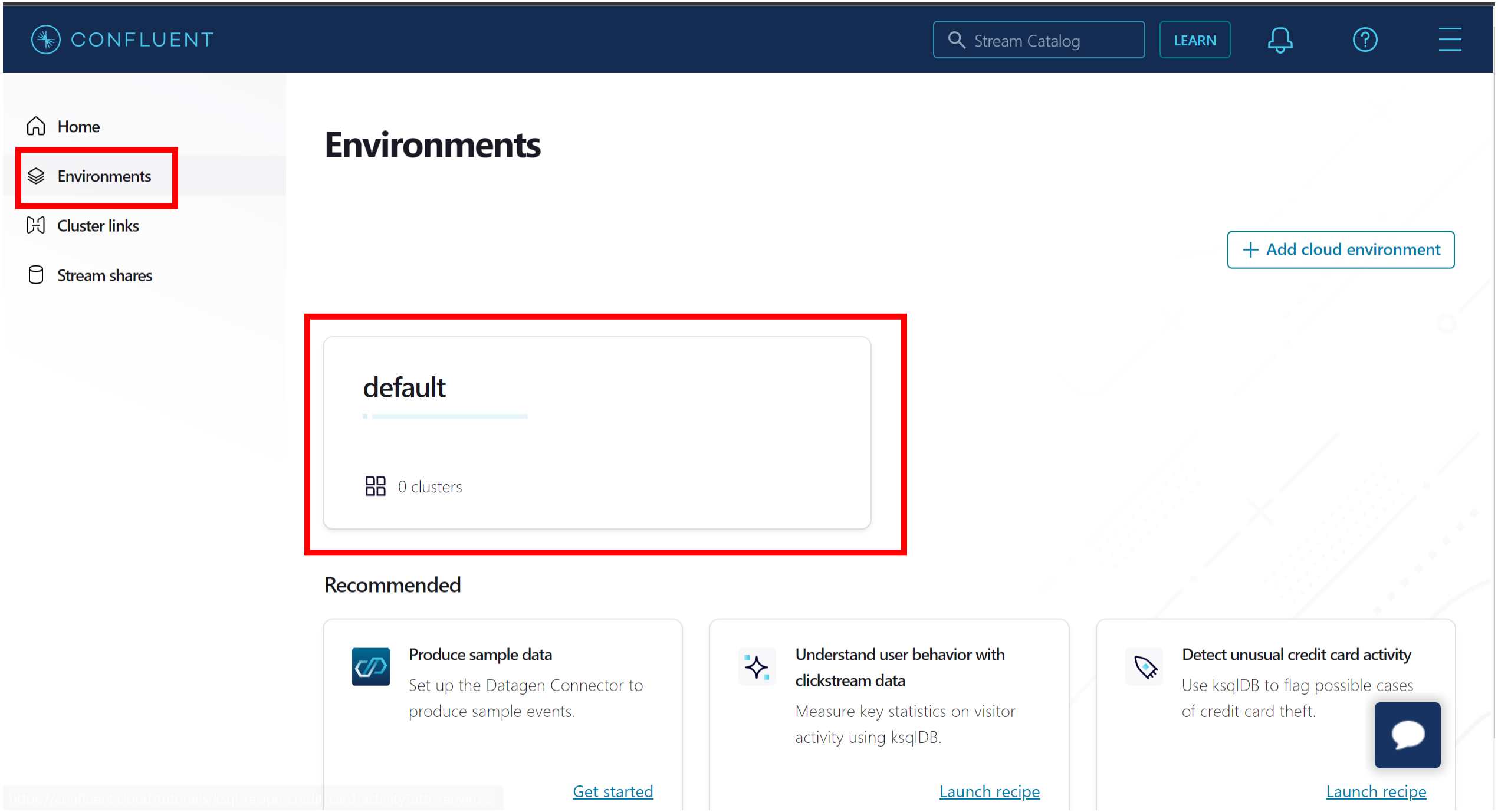
CONFLUENT
Stream Catalog
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Environments
+ Add cloud environment
default
0 clusters
Recommended
Produce sample data
Set up the Datagen Connector to produce sample events.
Get started
Understand user behavior with clickstream data
Measure key statistics on visitor activity using ksqlDB.
Launch recipe
Detect unusual credit card activity
Use ksqlDB to flag possible cases of credit card theft.
Launch recipe

CONFLUENT

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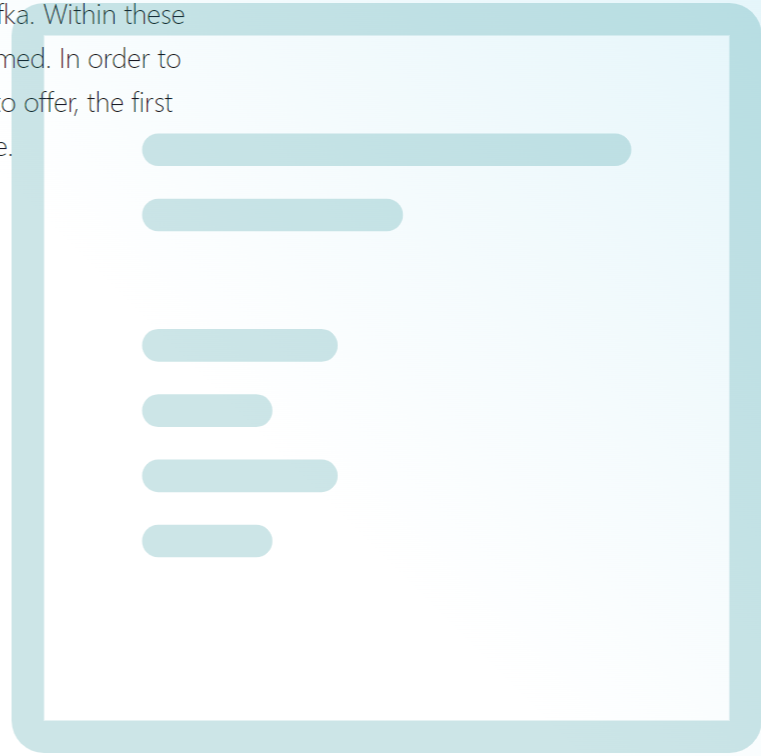
Clusters | Network management

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

ID

Endpoint

Home
Environments
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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%

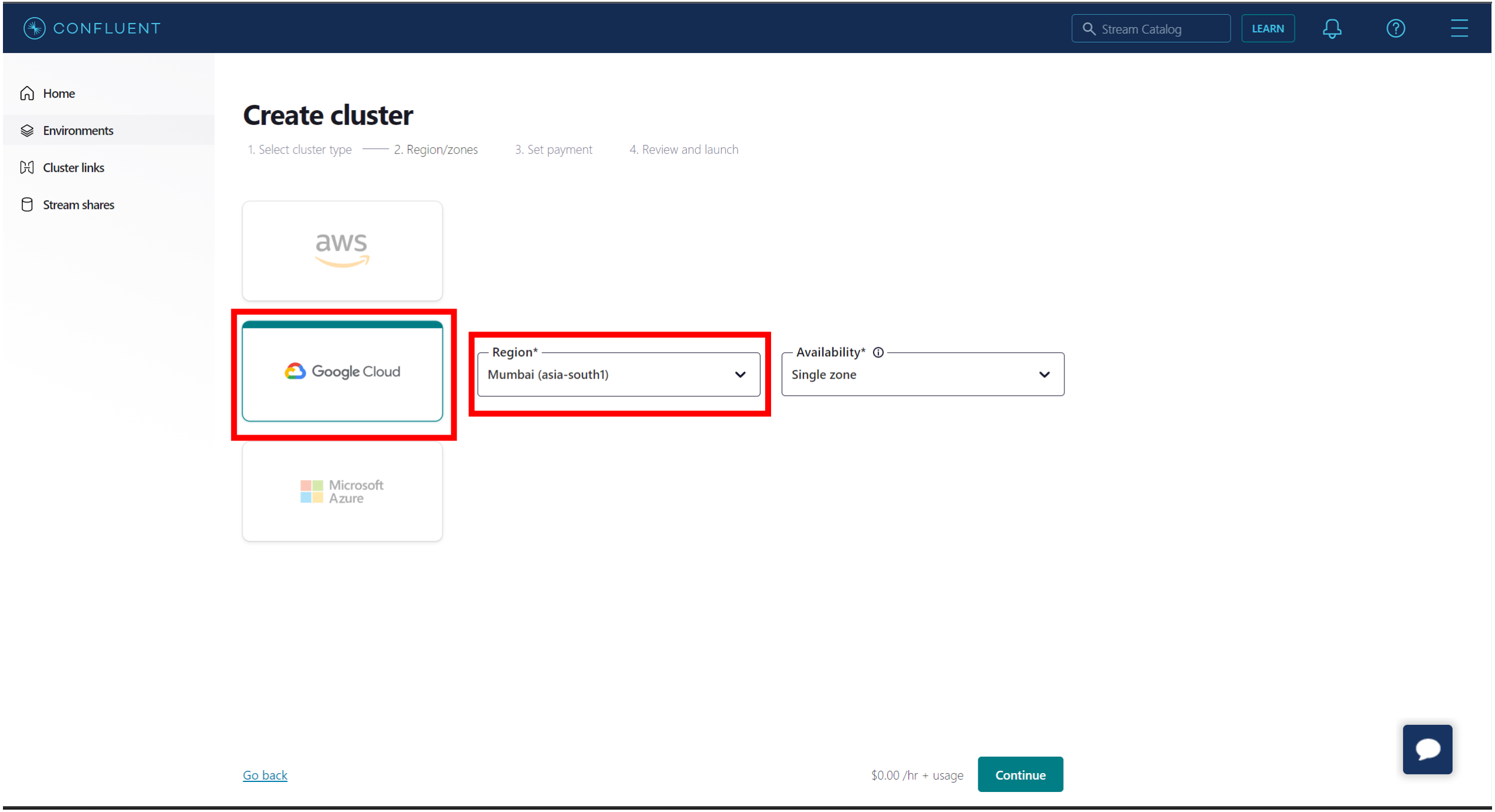
Begin configuration

Starting at

$2.66 /hr

View all specs

I'll do it later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Create cluster
1. Select cluster type
2. Region/zones
3. Set payment
4. Review and launch
aws
Google Cloud
Microsoft Azure
Region*
Mumbai (asia-south1)
Availability*
Single zone
Go back
$0.00 /hr + usage
Continue

Home
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Create cluster

1. Select cluster type — 2. Region/zones — 3. Set payment — 4. Review and launch

Enter payment card info (optional)

Avoid service interruptions when your free trial ends. You won't be charged until your free trial is over.

Card | US bank account

Card number

1234 1234 1234 1234

Expiration

MM / YY

CVC

CVC

By providing your card information, you allow Confluent, Inc. to charge your card for future payments in accordance with their terms.

Name*

Country*

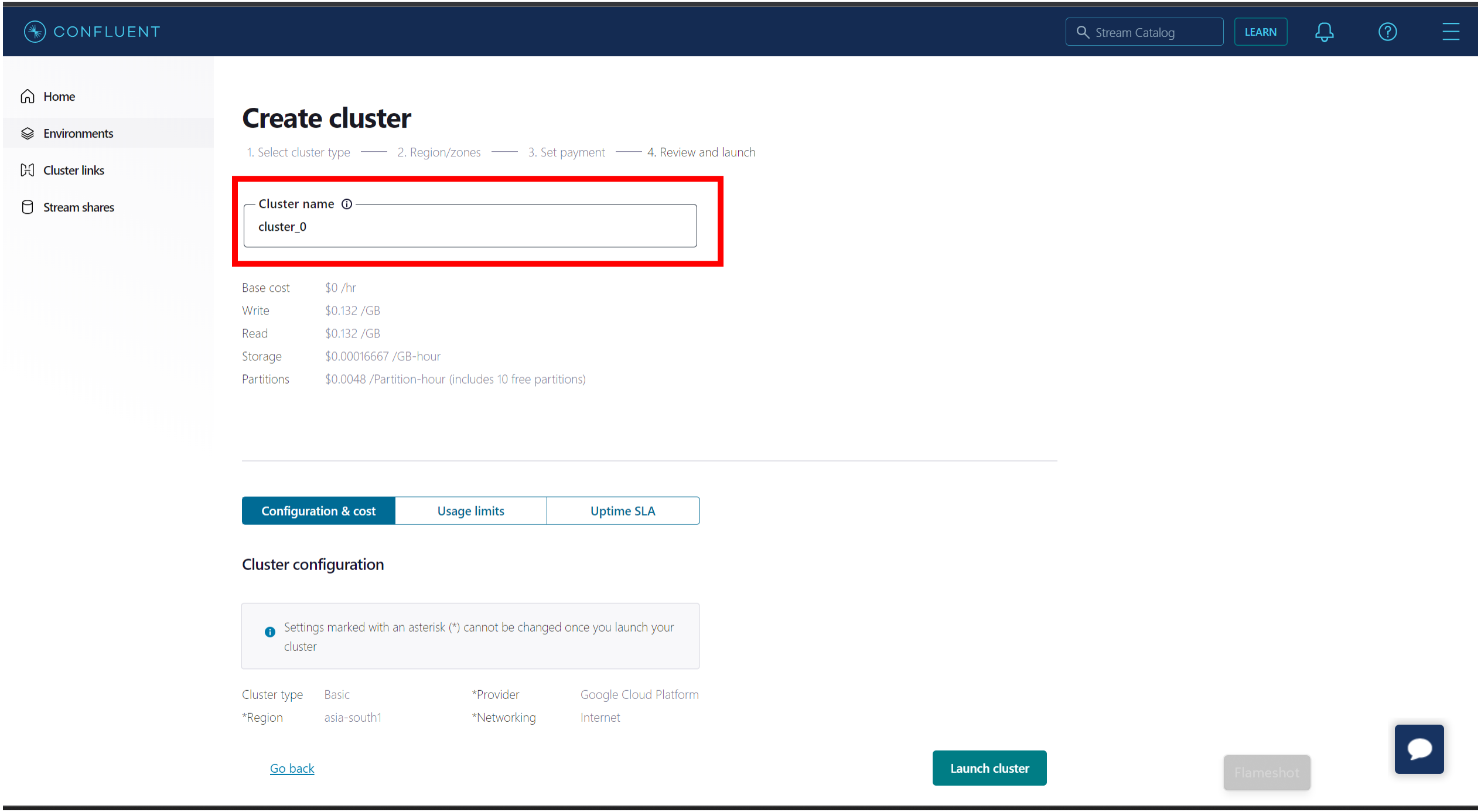
Zip / postal code*

Go back

$0.00 /hr + usage

Skip payment

Review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Create cluster
1. Select cluster type
2. Region/zones
3. Set payment
4. Review and launch
Cluster name
cluster_0
Base cost $0 /hr
Write $0.132 /GB
Read $0.132 /GB
Storage $0.00016667 /GB-hour
Partitions $0.0048 /Partition-hour (includes 10 free partitions)
Configuration & cost
Usage limits
Uptime SLA
Cluster configuration
Settings marked with an asterisk (*) cannot be changed once you launch your cluster
Cluster type Basic
*Region asia-south1
*Provider Google Cloud Platform
*Networking Internet
Go back
Launch cluster
Flameshot

CONFLUENT

Stream Catalog | LEARN

HOME > ENVIRONMENTS > DEFAULT > KAFKA_PRACTISE_CLUSTER >

- 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

Cluster Overview
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Create key

1. Access control

Select scope for API key

Global access

Allow your API key to access everything you can access. Key access will be linked to your account.

Recommended for development.

Granular access

Limit the access for your API key. Manage your API key's access through a service account.

Recommended for production.

Next Cancel

CLI and Tools
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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

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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.

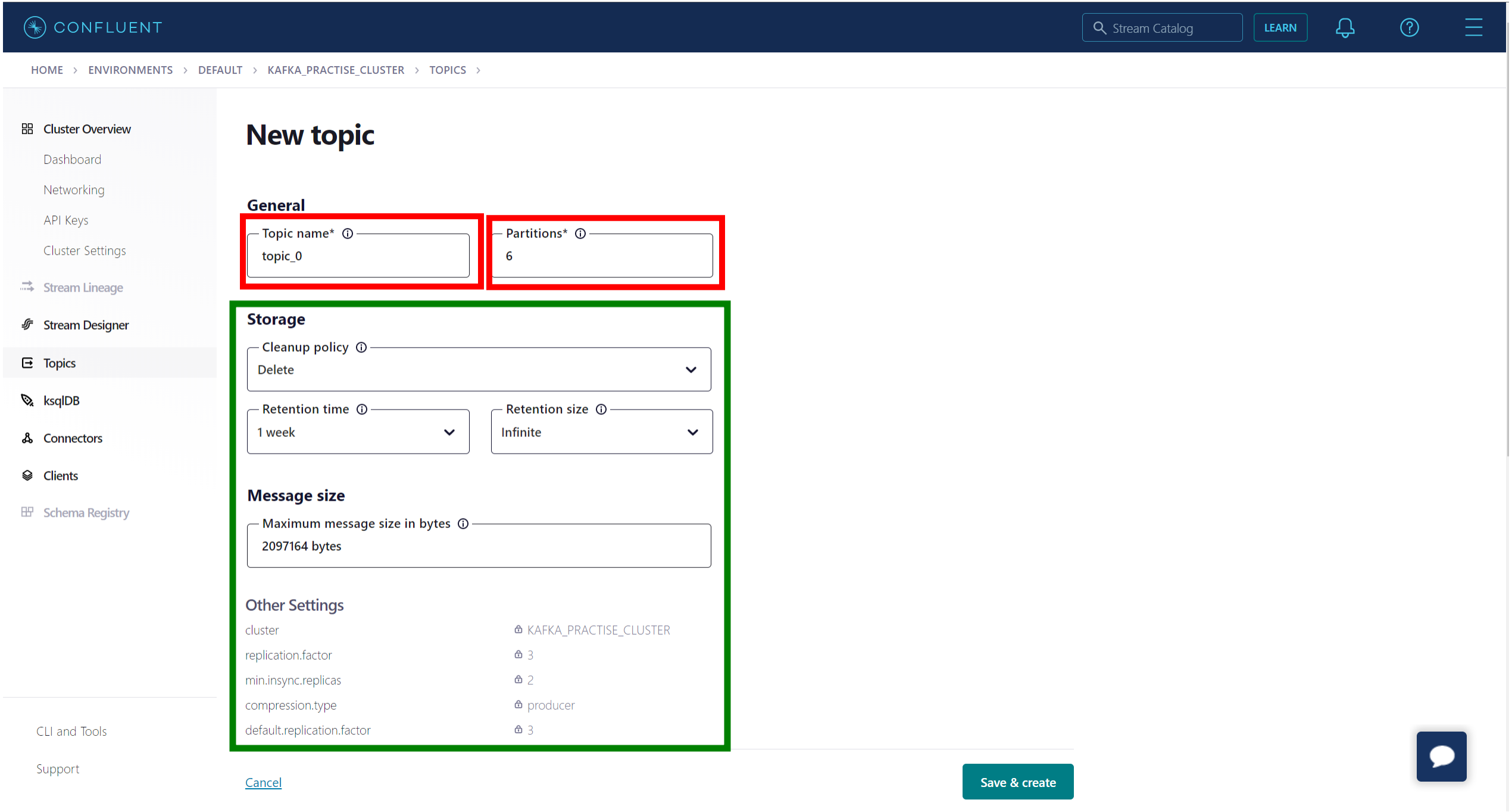
Watch video

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

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kafka_demo

Share

Overview Messages Schema Configuration

Connect to your topic

Start generating data and developing your first pipeline with one of the suggested methods.

Add a connector Configure a client

Production

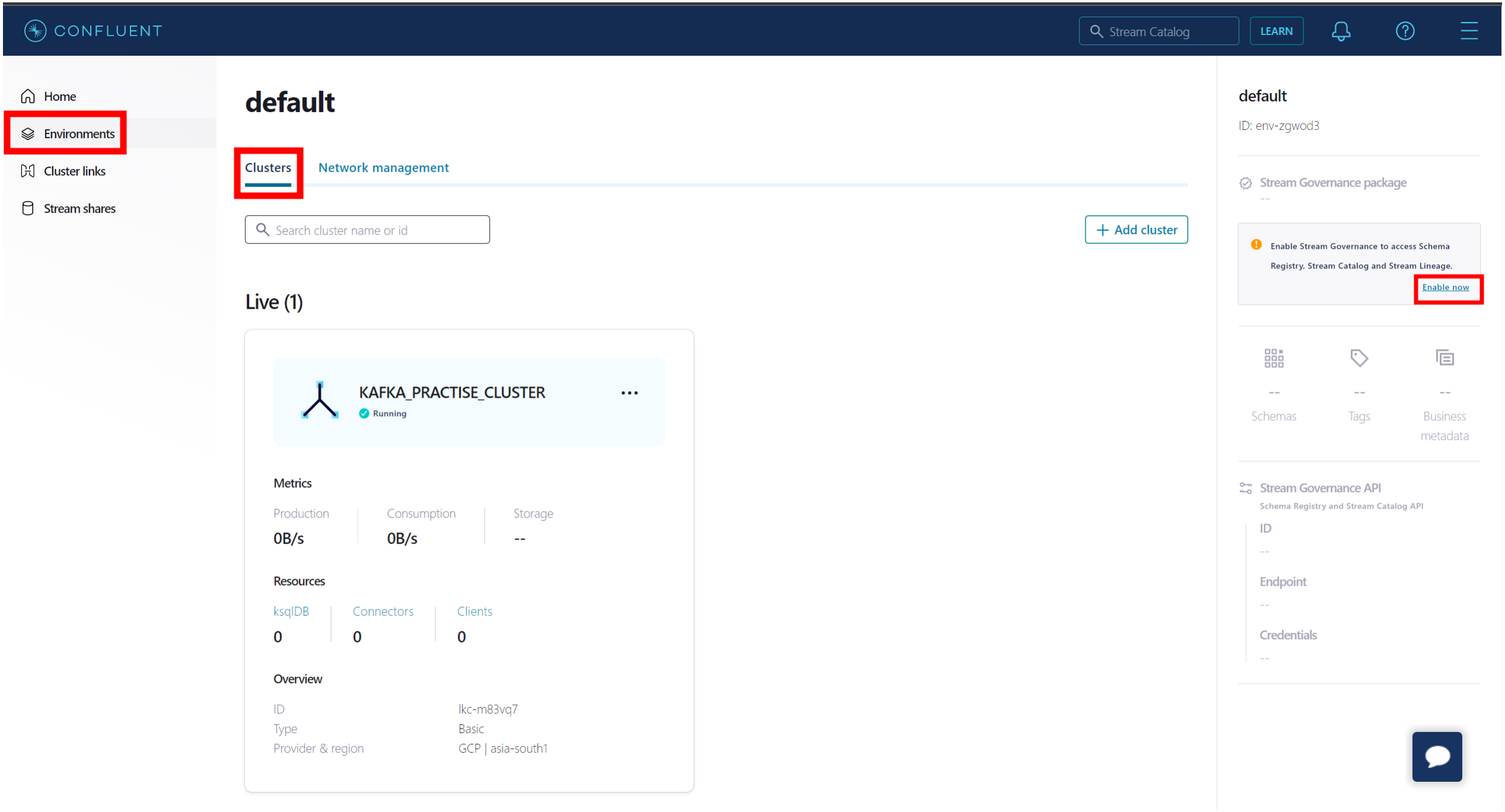
– –

Bytes per second

Consumption

– –

Bytes per second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Search cluster name or id
Add cluster
Live (1)
KAFKA_PRACTISE_CLUSTER
Running
Metrics
Production
0B/s
Consumption
0B/s
Storage
--
Resources
ksqlDB
0
Connectors
0
Clients
0
Overview
ID
lkc-m83vq7
Type
Basic
Provider & region
GCP | asia-south1
default
ID: env-zgwod3
Stream Governance package
--
Enable Stream Governance to access Schema Registry, Stream Catalog and Stream Lineage.
Enable now
--
Schemas
--
Tags
--
Business metadata
Stream Governance API
Schema Registry and Stream Catalog API
ID
--
Endpoint
--
Credentials
--

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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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default

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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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

CONFLUENT

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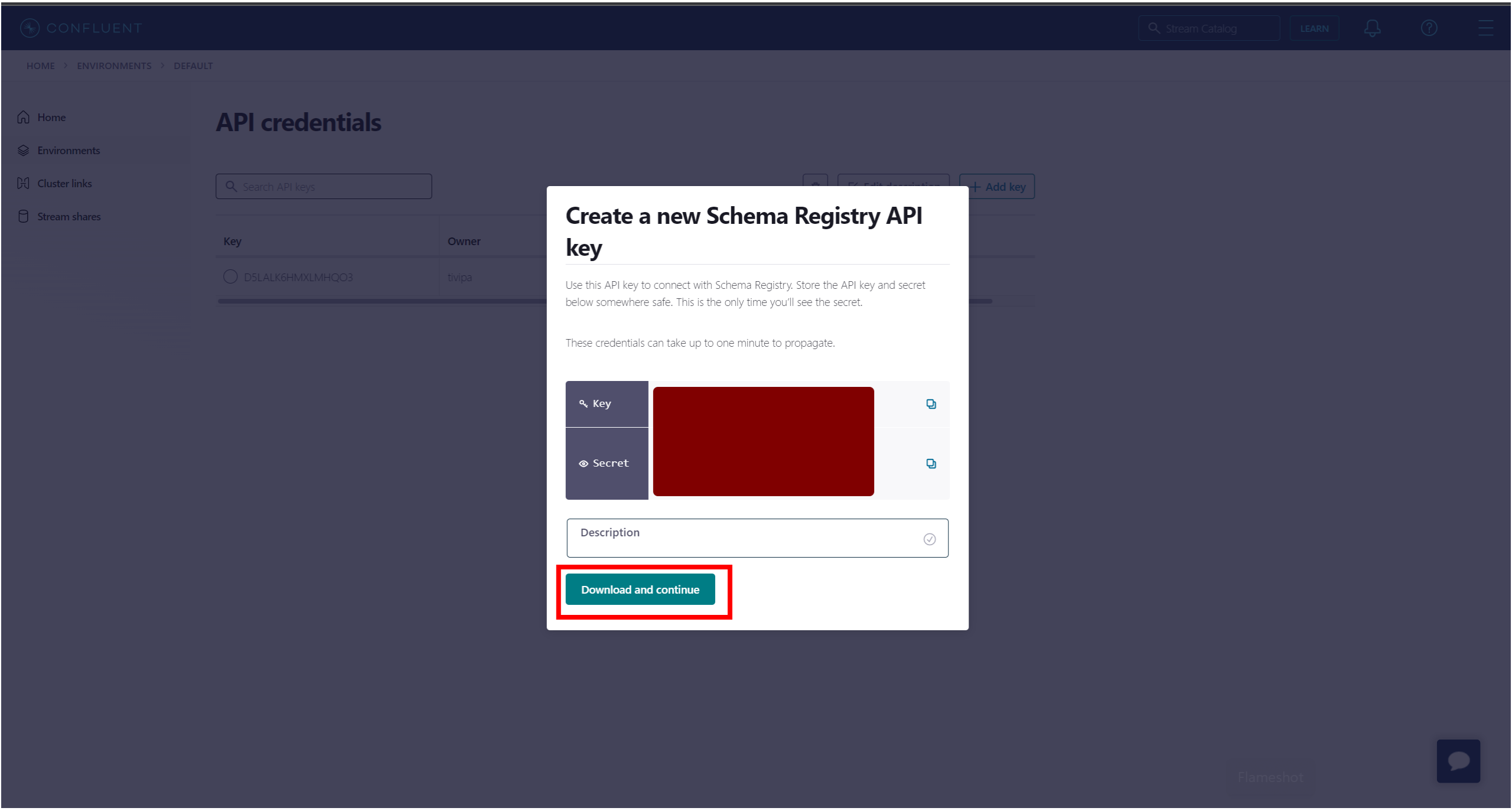
API credentials

Control access to your Schema Registry

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

Create key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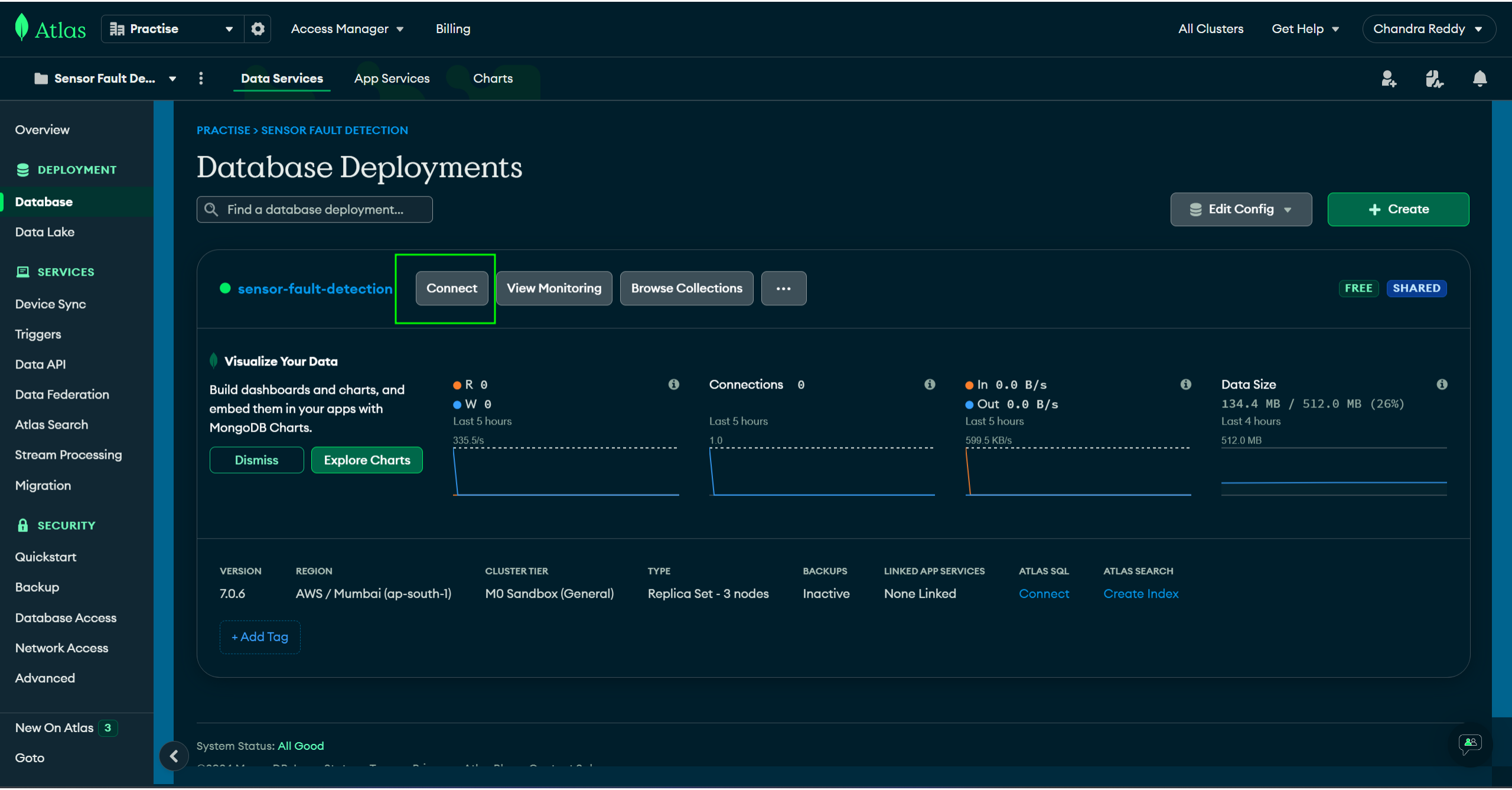
API credentials
Search API keys
Add key
Key
Owner
D5LALK6HMXLMHQO3
tivipa
Create a new Schema Registry API key
Use this API key to connect with Schema Registry. Store the API key and secret below somewhere safe. This is the only time you'll see the secret.
These credentials can take up to one minute to propagate.
Key
Secret
Description
Download and continue
Flameshot

How To Get MongoDB URL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Billing
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App Services
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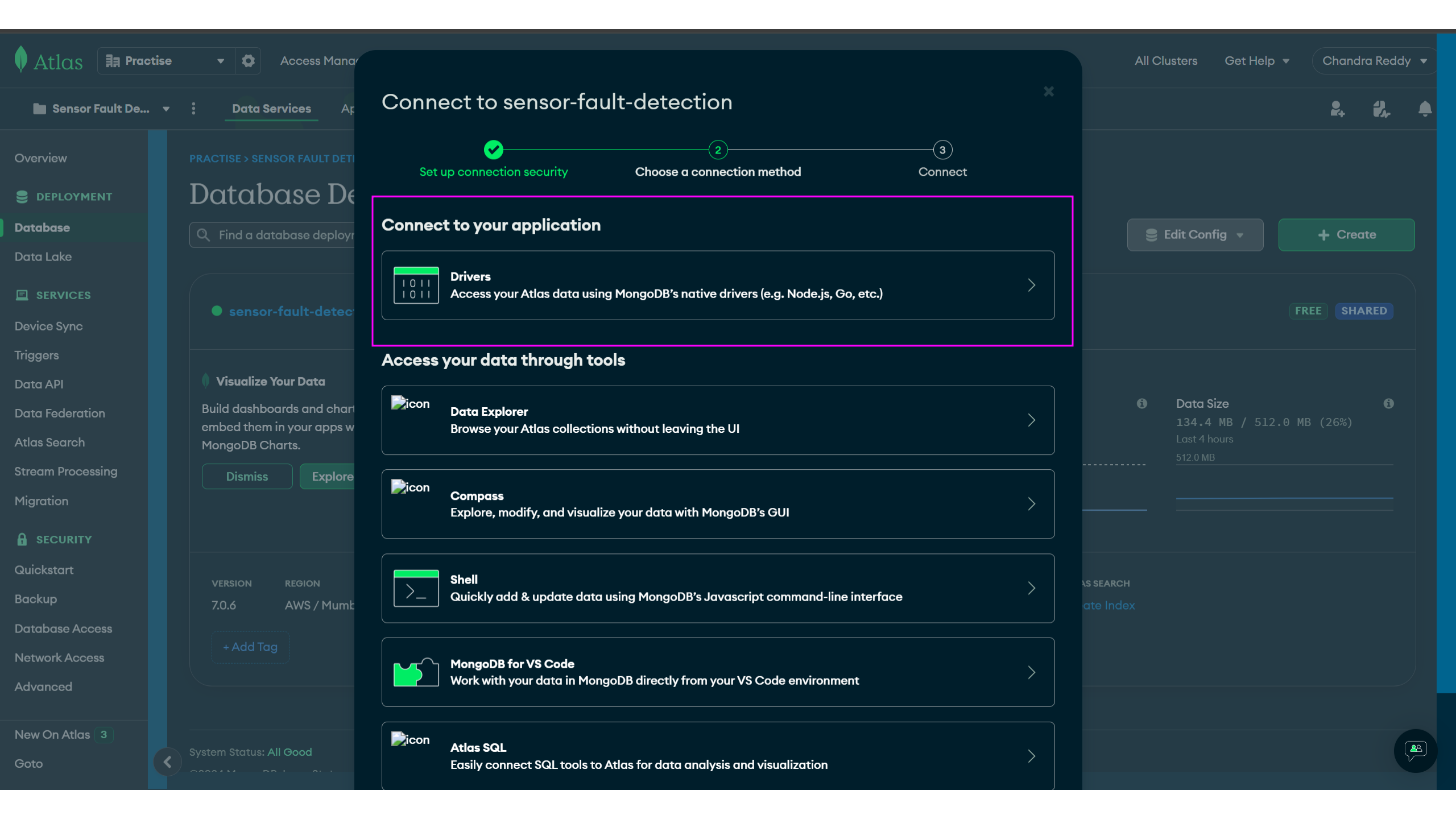
Goto
PRACTISE > SENSOR FAULT DETECTION
Database Deployments
Find a database deployment...
Edit Config
Create
sensor-fault-detection
Connect
View Monitoring
Browse Collections
FREE
SHARED
Visualize Your Data
Build dashboards and charts, and embed them in your apps with MongoDB Charts.
Dismiss
Explore Charts
R 0
W 0
Last 5 hours
335.5/s
Connections 0
Last 5 hours
1.0
In 0.0 B/s
Out 0.0 B/s
Last 5 hours
599.5 KB/s
Data Size
134.4 MB / 512.0 MB (26%)
Last 4 hours
512.0 MB
VERSION
7.0.6
REGION
AWS / Mumbai (ap-south-1)
CLUSTER TIER
M0 Sandbox (General)
TYPE
Replica Set - 3 nodes
BACKUPS
Inactive
LINKED APP SERVICES
None Linked
ATLAS SQL
Connect
ATLAS SEARCH
Create Index
+ Add Tag
System Status: All Good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SHARED
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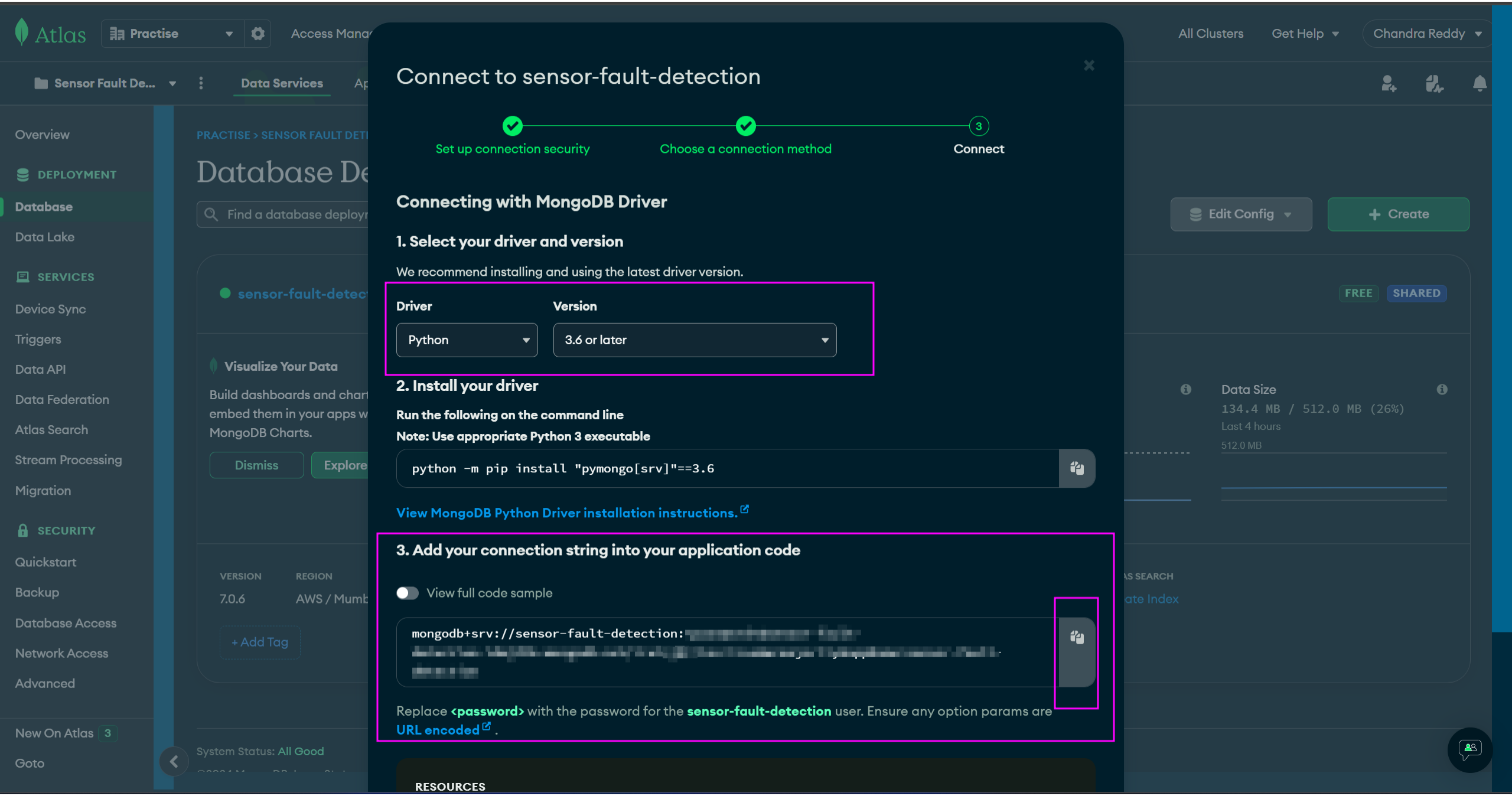
Build dashboards and chart
embed them in your apps w
MongoDB Charts.
Dismiss
Explore
Data Size
134.4 MB / 512.0 MB (26%)
Last 4 hours
512.0 MB
VERSION
7.0.6
REGION
AWS / Mumb
+ Add Tag
AS SEARCH
ate Index
System Status: All Good
Connect to sensor-fault-detection
Set up connection security
2
Choose a 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
icon
Data Explorer
Browse your Atlas collections without leaving the UI
icon
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
icon
Atlas SQL
Easily connect SQL tools to Atlas for data analysis and visualization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FREE
SHARED
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Build dashboards and chart
embed them in your apps w
MongoDB Charts.
Dismiss
Explore
Data Size
134.4 MB / 512.0 MB (26%)
Last 4 hours
512.0 MB
VERSION
REGION
7.0.6
AWS / Mumb
+ Add Tag
AS SEARCH
ate Index
System Status: All Good
Connect to sensor-fault-detection
Set up connection security
Choose a connection method
3
Connect
Connecting with MongoDB Driver
1. Select your driver and version
We recommend installing and using the latest driver version.
Driver
Python
Version
3.6 or later
2. Install your driver
Run the following on the command line
Note: Use appropriate Python 3 executable
python -m pip install "pymongo[srv]"==3.6
View MongoDB Python Driver installation instructions.
3. Add your connection string into your application code
View full code sample
mongodb+srv://sensor-fault-detection:
Replace <password> with the password for the sensor-fault-detection user. Ensure any option params are URL encoded .
RESOURCES

Happy Learning!!