

# END2END GCP STORAGE

1 - Primer paso, crear topics y subs.

Topics

CREATE TOPIC

DELETE

Simplify data lake pipelines with new Pub/Sub CloudX Storage subscriptions 

NEW

You can now streamline your data ingestion pipelines with Cloud Storage subscriptions, enabling you to write raw streaming data into Cloud Storage without any transformations in between. To get started, create a new Cloud Storage subscription for a Pub/Sub topic.

CREATE CLOUD STORAGE SUBSCRIPTION

LEARN MORE

Stream data directly to Pub/Sub

Leverage Pub/Sub BigQuery sink to accelerate your tir creating a new BigQuery subscription for a Pub/Sub topic.

TRY NOW

LEARN MORE

LIST

METRICS

Filter

Filter topics

<input type="checkbox"/>	Topic ID <div>↑</div>	Encryption key	Topic name	Retention
<input type="checkbox"/>	<a href="#">delivery-events</a>	Google-managed	projects/smooth-bond-447114-p2/topics/delivery-events <div></div>	—
<input type="checkbox"/>	<a href="#">order-events</a>	Google-managed	projects/smooth-bond-447114-p2/topics/order-events <div></div>	—

A new topic and a new subscription have been successfully created.

2 - Crear máquinas Compute Engine Orders-app y Delivery-app.

Google Cloud

My Project 92701

compute engine

Create an instance

CREATE VM FROM...

Machine configuration

Instance-20250128-103606

Region

us-central1 (Iowa)

Zone

Any

General purpose

Compute-optimised

Memory-optimised

Storage optimised

GPUs

Series

Description

vCPUs

Memory

Platform

C4

Consistently high performance

2 - 192

4 - 1,488 GB

Intel Emerald Rapids

C4A

Arm-based consistently high performance

1 - 72

2 - 576 GB

Google Axion

N4

Flexible and cost-optimised

2 - 80

4 - 640 GB

Intel Emerald Rapids

C3

Consistently high performance

4 - 192

8 - 1,536 GB

Intel Sapphire Rapids

C3D

Consistently high performance

4 - 360

8 - 2,880 GB

AMD Genoa

E2

Low-cost day-to-day computing

0.25 - 32

1 - 128 GB

Based on availability

N2

Balanced price and performance

2 - 128

2 - 864 GB

Intel Cascade Lake

N2D

Balanced price and performance

2 - 224

2 - 896 GB

AMD EPYC

T2A

Scale-out workloads

1 - 48

4 - 192 GB

Ampere Altra ARM

T2D

Scale-out workloads

1 - 60

4 - 240 GB

AMD EPYC Milan

N1

Balanced price and performance

0.25 - 96

0.5 - 624 GB

Intel Skylake

Monthly estimate

US\$25.46

That's about US\$0.03 per hour

Item

2 vCPU + 4 GB memory

10 GB balanced persistent disk

Total

Compute Engine prices

LESS

Create VM from machine image

Filter machine images

Name

Source instance

Creation time

image-template-edem

orders-app

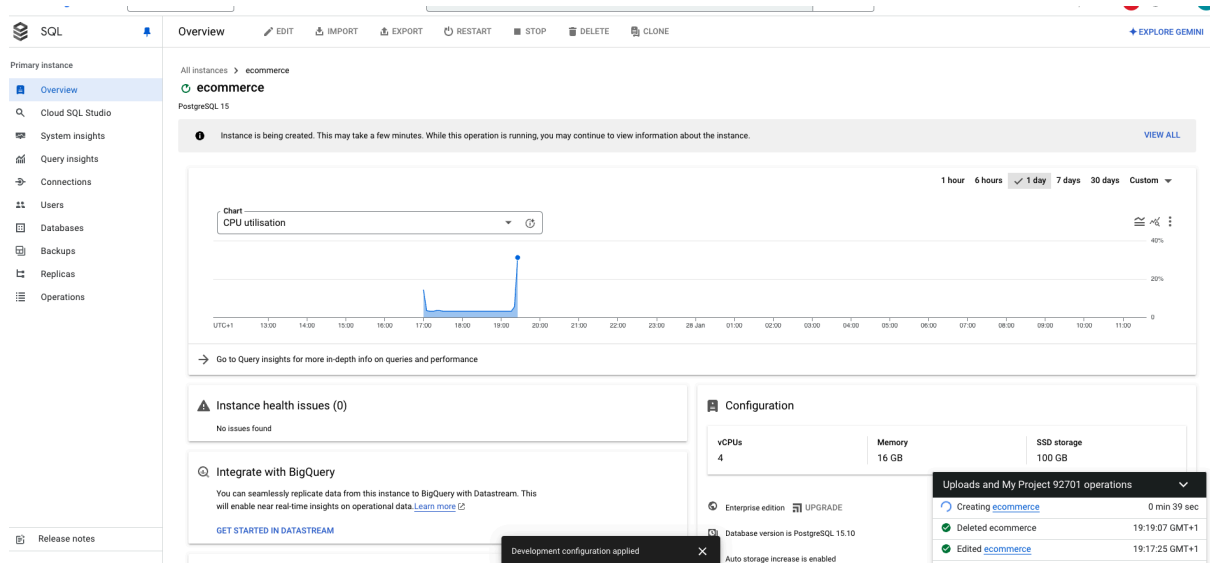
Jan 7, 2025, 7:11:10 pm UTC+01:00

imagen-e2e

orders-app

Jan 27, 2025, 5:57:39 pm UTC+01:00

### 3- Crear cloud run y bbdd ecommerce.



### 4- Crear bucket para datalake.

Buckets										
Filter		Filter buckets								
<input type="checkbox"/>	Name ↑	Created	Location type	Location	Default storage class	Last modified	Public access	Access control	Protection	Hierarchical namespace
<input type="checkbox"/>	edem-e2e	28 Jan 2025, 11:41:54	Region	europe-west1	Standard	28 Jan 2025, 11:41:54	Not public	Uniform	Soft delete	Not enabled

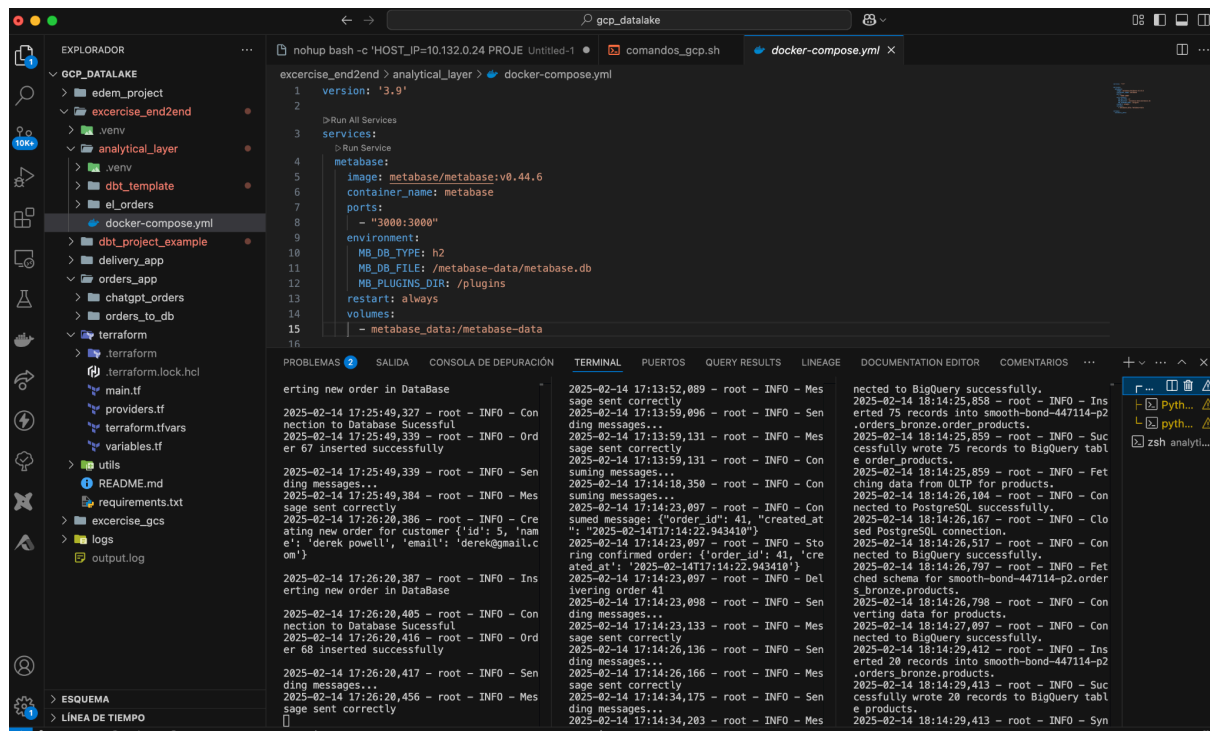
### 5- Crear dataset y tablas en big query.

```
Google Cloud My Project 92701 Search (/) for resources, docs, products and more Search
```

```
Explorer + ADD <
Search BigQuery resources
Show starred only
smooth-bond-447114-p2
  Queries
  Notebooks
  Data canvases
  Data preparations
  Workflows
  External connections
  delivery_bronze
  orders_bronze
  bigquery-public-data
SUMMARY
Nothing currently selected
```

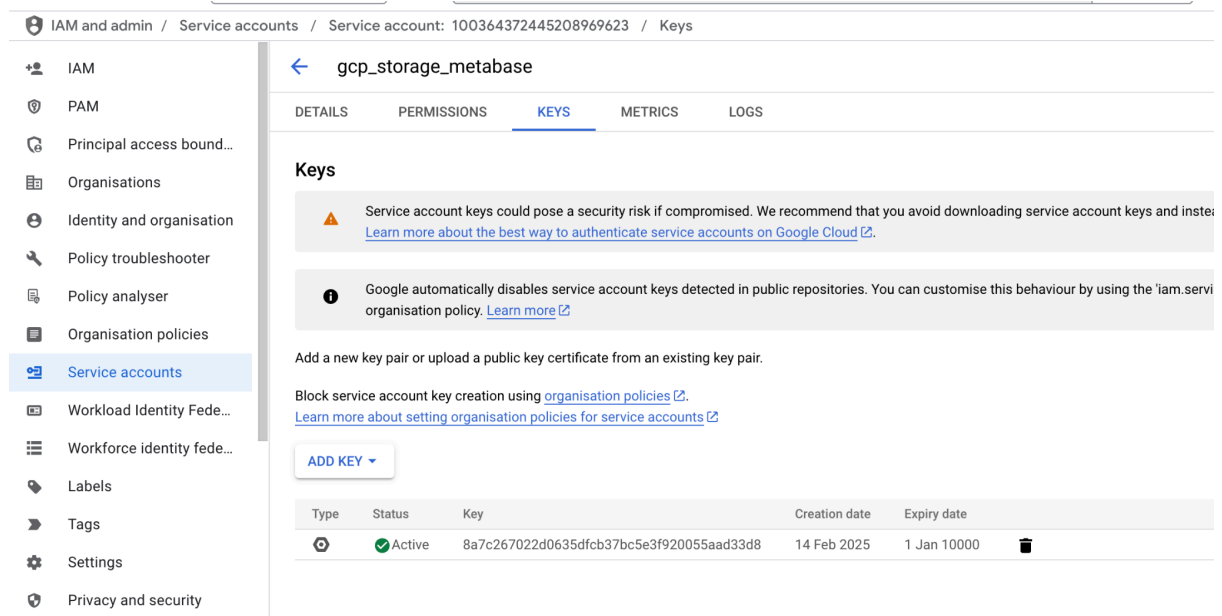
```
Untitled query RUN SAVE DOWNLOAD SHARE SCHEDULE OPEN IN
1 CREATE TABLE `orders_bronze.customers` (
2   `id` INT64,
3   `customer_name` STRING,
4   `email` STRING
5 );
6
7 CREATE TABLE `orders_bronze.products` (
8   `id` INT64,
9   `product_name` STRING,
10  `price` FLOAT64
11 );
12
13 CREATE TABLE `orders_bronze.orders` (
14   `id` INT64,
15   `customer_id` INT64,
16   `created_at` TIMESTAMP,
17   `total_price` FLOAT64
18 );
19
20 CREATE TABLE `orders_bronze.order_products` (
21   `order_id` INT64,
22   `product_id` INT64,
23   `quantity` INT64,
24   `price` FLOAT64
25 );
```

6- Dentro de las compute engine crear entornos y ejecutar envío de datos.

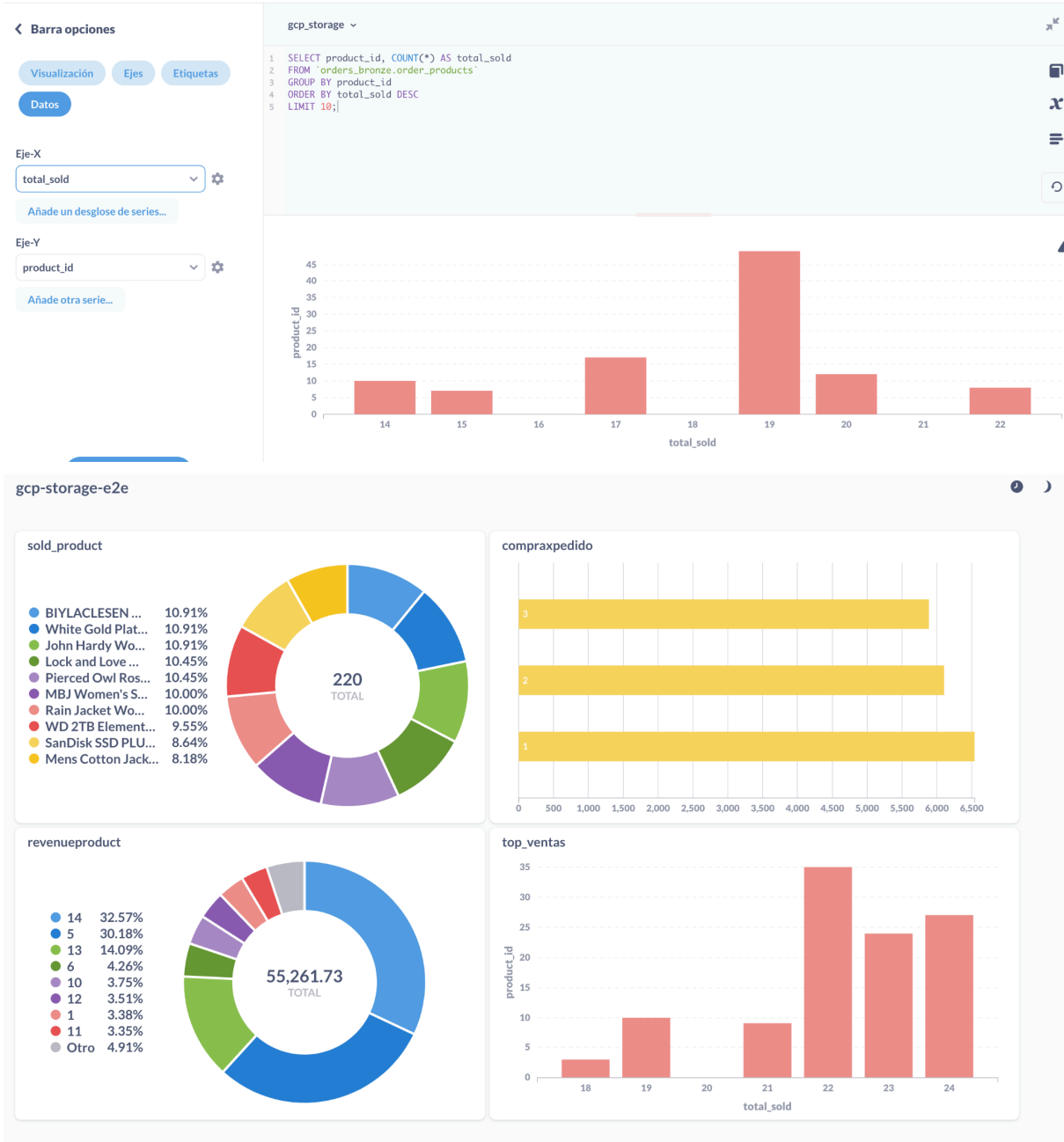


Una vez tengamos toda la arquitectura creada y vinculada podemos generar el envío de datos.

## 7- Creamos Service account para conectar con Metabase.



8- Crear querys, gráficas y dashboard.



gcp-storage-e2e

sold\_product

- BIYLACLESEN ... 10.91%
- White Gold Plat... 10.91%
- John Hardy Wo... 10.91%
- Lock and Love ... 10.45%
- Pierced Owl Ros... 10.45%
- MBJ Women's S... 10.00%
- Rain Jacket Wo... 10.00%
- WD 2TB Element... 9.55%
- SanDisk SSD PLU... 8.64%
- Mens Cotton Jack... 8.18%

220  
TOTAL

compraxpedido

product_id	total_sold
1	6,200
2	5,800
3	5,500

revenueproduct

- 14 32.57%
- 5 30.18%
- 13 14.09%
- 6 4.26%
- 10 3.75%
- 12 3.51%
- 1 3.38%
- 11 3.35%
- Otro 4.91%

55,261.73  
TOTAL

top\_ventas

total_sold	product_id
18	3
19	10
21	9
22	35
23	24
24	27