

GCP Billing Export Handbook

April 2026
Version 2.0

Overview	3
One-Time Setup (Per Billing Account)	3
Recurring Activity (Monthly or As On Demand)	3
Choosing the Right Setup Option	3
Standard Usage Cost Export (Not Feasible)	3
Detailed Usage Cost Export (Recommended)	4
Why Detailed Export is Required	4
Prerequisites	4
One-Time Setup (Per Billing Account)	4
Open Google Cloud Console	4
Navigate to Billing	5
Open Billing Export Settings	5
Enable Detailed Billing Export	6
Create or Select Dataset	6
Verify Billing Export Status	8
Wait for Data Availability	8
Backfill Behavior (Important)	8
Recurring Activity (Monthly or On Demand)	9
Open BigQuery	9
Locate Billing Table	9
Ensure Cloud Storage Bucket Exists	10
Run Export Query	10
Downloading the Report	13
Open Bucket	13
Locate Files	13
Download Files	13
Sample Output Format (CSV)	13
Conclusion	14
Support	14

Overview

This handbook provides step-by-step instructions to obtain detailed Google Cloud Platform (GCP) billing reports for use with the **Tervio Assessment Agent**.

The process consists of two parts:

One-Time Setup (Per Billing Account)

Enable billing data export from Google Cloud Billing to BigQuery.

This ensures that detailed usage and cost information is captured at the **SKU, project, service, and region levels**.

Note: If you have **multiple billing accounts**, this setup must be **completed separately** for **each billing account**, as billing exports are configured independently per account. Ensure that you select the correct billing account before performing the setup steps.

Recurring Activity (Monthly or As On Demand)

Once setup is complete, you can:

- Run a query to extract billing data for a specific month
- Export the results to Cloud Storage
- Download and use the file(s) for analysis in Tervio

Choosing the Right Setup Option

GCP provides two billing export options. Understanding the difference is important to ensure compatibility with the Tervio Assessment Agent.

Standard Usage Cost Export (Not Feasible)

This is GCP's default billing export. While it is easier to enable, it does not provide the level of detail required for Tervio analysis.

Limitations:

- Does not include **SKU-level details** (SKUID, SKUDescription)
- Missing **resource-level breakdown** (region, project)
- Does not provide **UsageAmount and UsageUnit** at required granularity
- Limited visibility for cost optimization analysis
- Mandatory fields required by Tervio are not available

Detailed Usage Cost Export (Recommended)

This setup enables detailed billing export to BigQuery and provides granular, resource-level billing data required by the Tervio Assessment Agent.

Capabilities:

- Includes full **SKU-level breakdown** (SKUID, SKUDescription)
- Provides data at **Region, Project, and Service levels**
- Includes all mandatory fields required by Tervio: InvoiceMonth, ProjectID, ServiceID, ServiceDescription, SKUID, SKUDescription, Region, UsageAmount, UsageUnit
- Supports **SQL-based report generation via BigQuery**
- Enables export to **CSV (GZIP)** for use in Tervio

Why Detailed Export is Required

The Tervio Assessment Agent requires **SKU-level and usage-based billing data**, including fields such as **UsageAmount, UsageUnit, and Region**. The Standard Usage Cost Export does not provide this level of detail. Therefore, **Detailed Usage Cost Export is the only supported and recommended option**.

Prerequisites

Before starting, ensure:

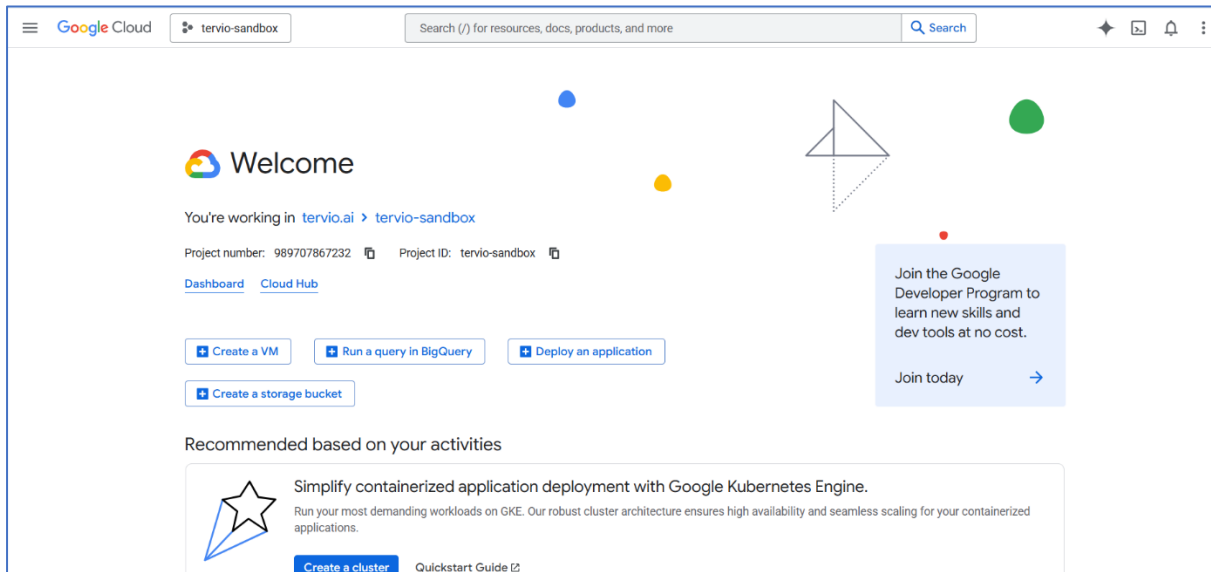
- You have access to a **GCP Billing Account**
- Billing is enabled on the target project
- The project used for **BigQuery** is linked to the **same Billing Account**
- Required permissions:
 - Billing Account Viewer / Costs Manager (or higher)
 - BigQuery Data Editor / Admin
 - Cloud Storage write access
- BigQuery and Cloud Storage APIs are enabled

One-Time Setup (Per Billing Account)

Follow the steps below to enable detailed billing export:

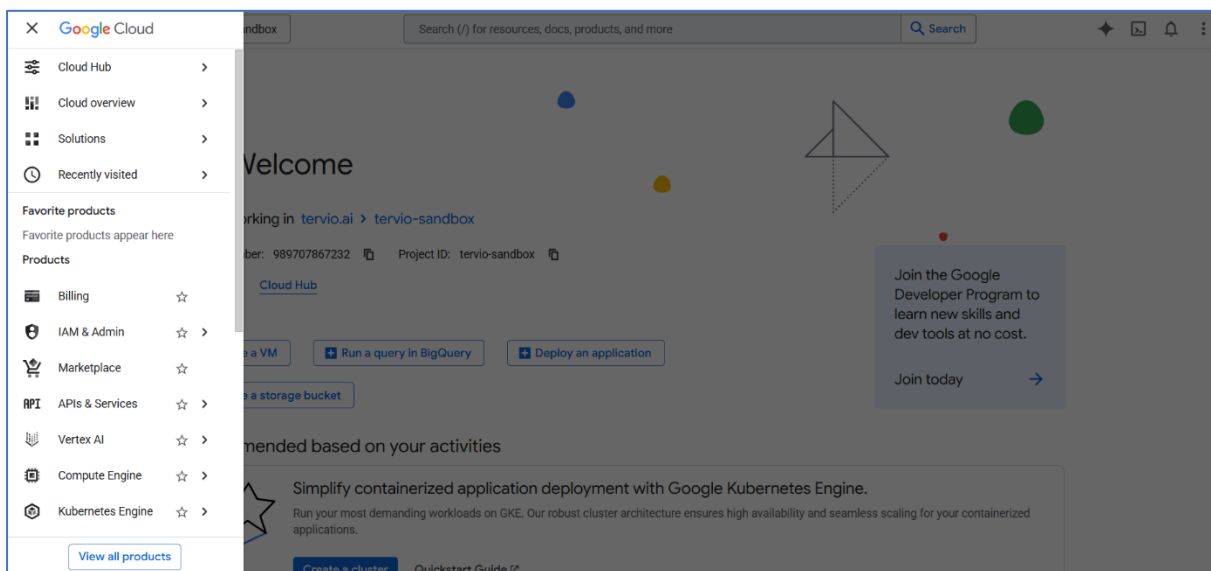
Open Google Cloud Console

- Navigate to: <https://console.cloud.google.com>
- Log in using your credentials
- Select the appropriate project from the top navigation bar
(*This project will only be used to store the billing dataset*)



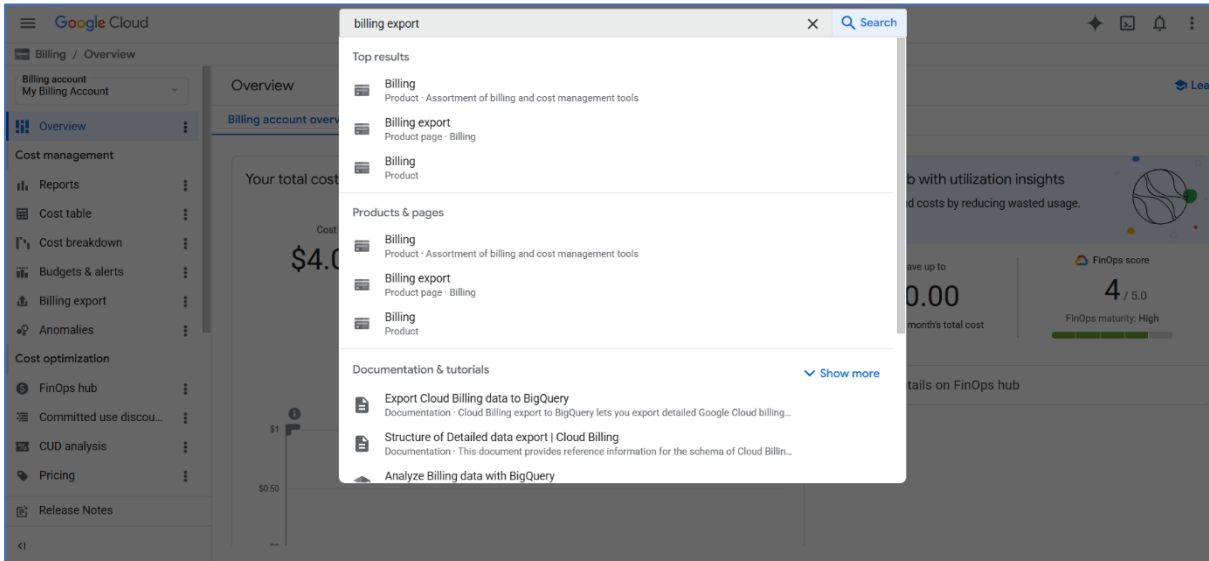
Navigate to Billing

- Open the Navigation Menu (☰)
- Click on **Billing**
- Select the correct Billing Account
(*Billing export is configured at the **billing account level**, not the project*)



Open Billing Export Settings

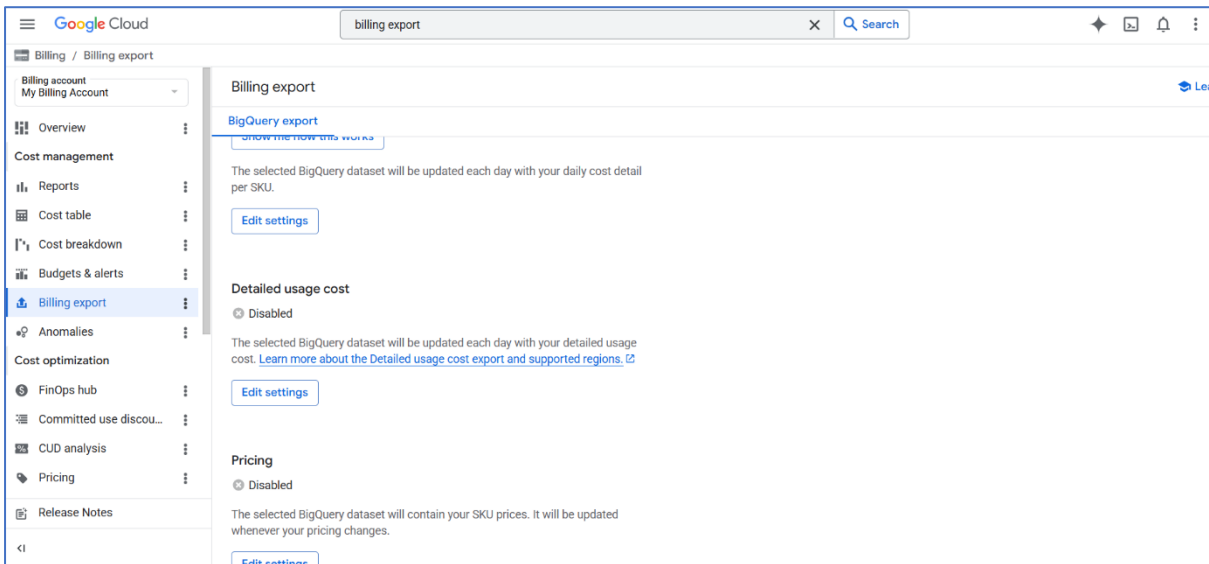
- Use the search bar and search for **“Billing export”**
- Open the **Billing export** page



Enable Detailed Billing Export

- Under “**Detailed usage cost**”, click **Edit settings**
- Select the project where the dataset will be created
- **Save** the configuration

This enables export of detailed billing data into BigQuery.

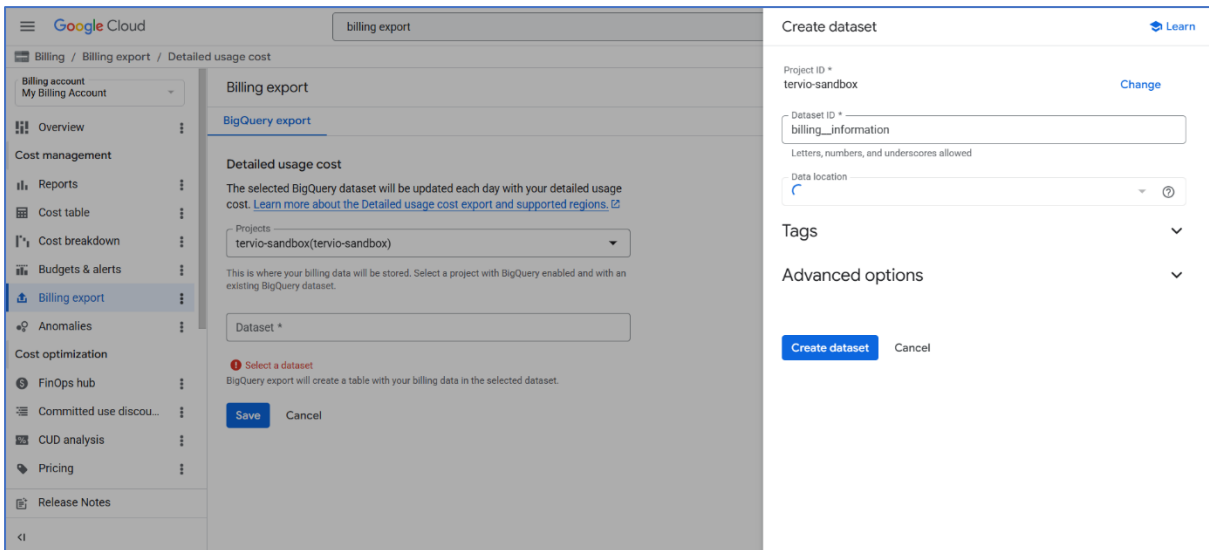
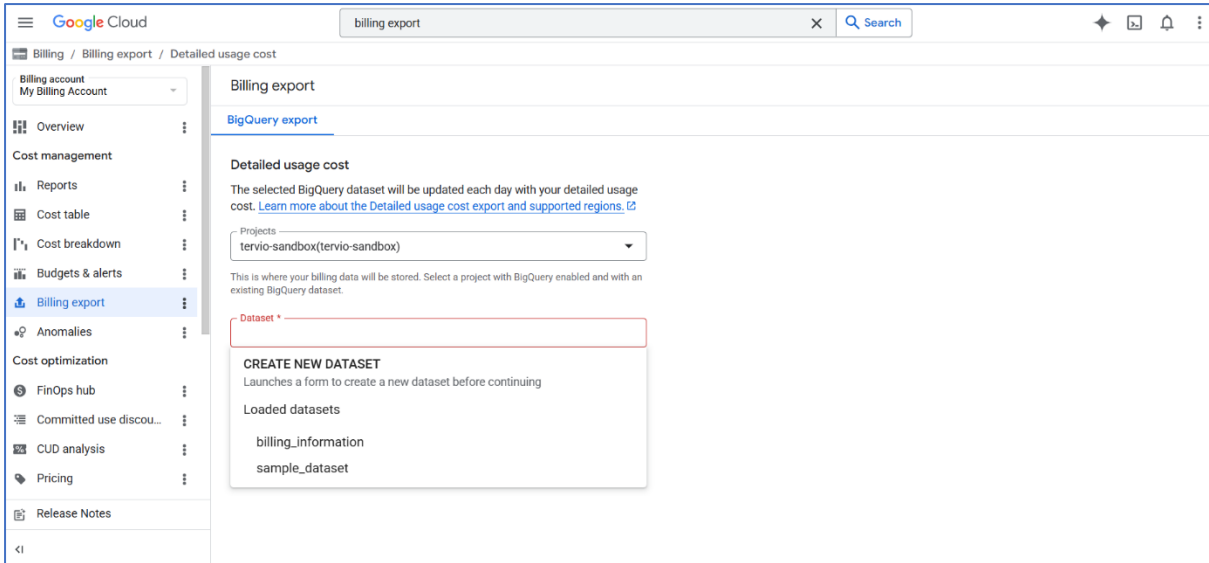


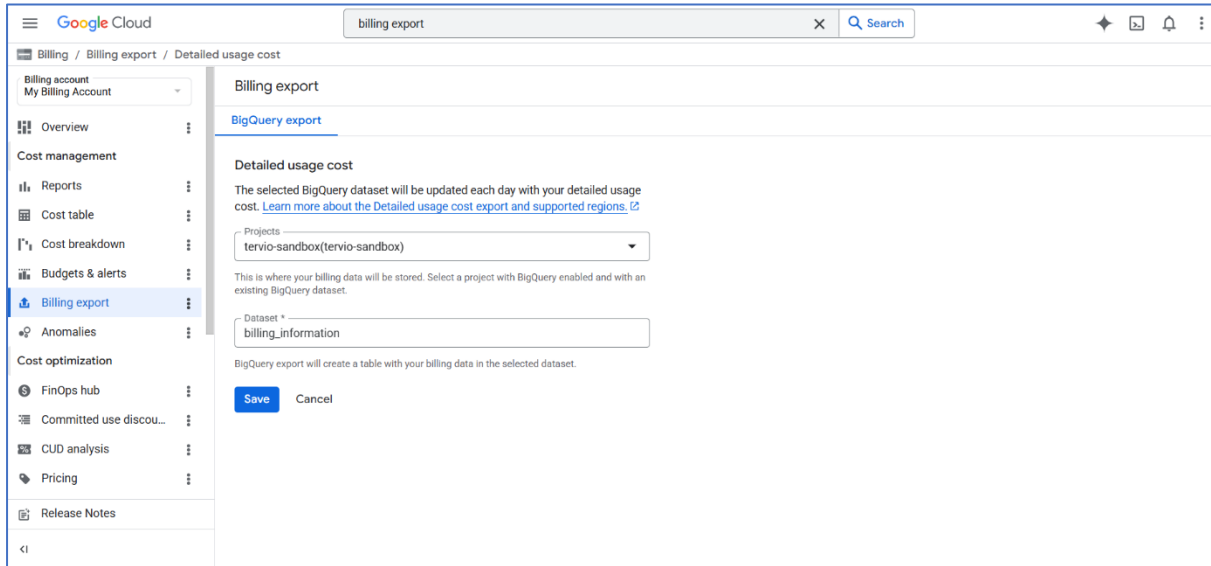
Create or Select Dataset

If a dataset does not exist:

- Click **Create new dataset**
- Enter dataset name: **billing_information**
- Location:
 - **US/EU (Recommended)** → supports historical backfill

- Regional → no backfill
 - Click **Create**
- Then:
- Select the dataset
 - Click **Save**
- This dataset will store all billing data.

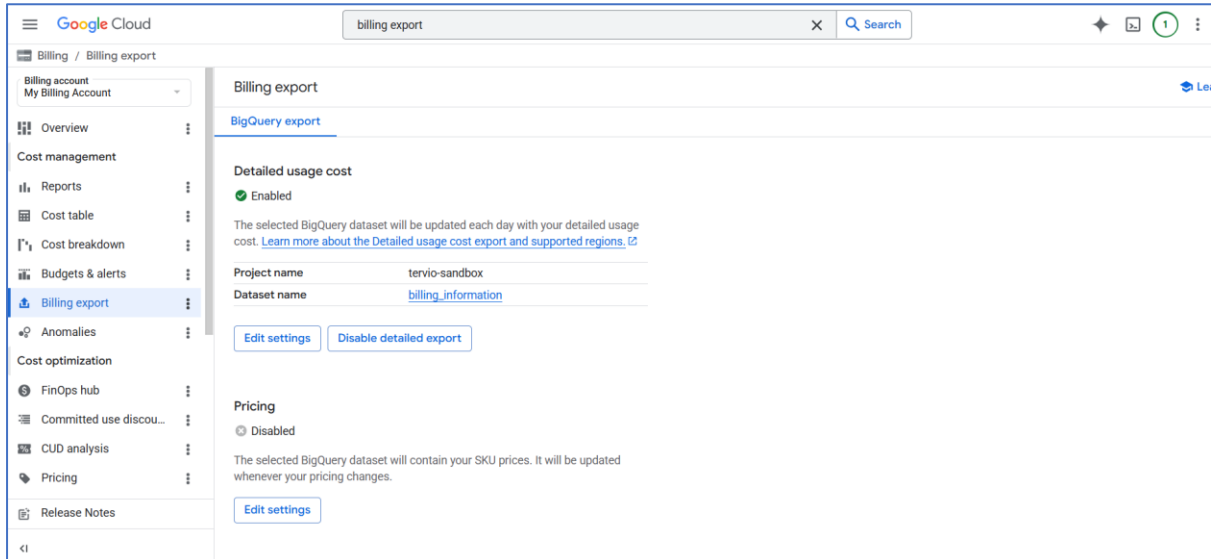




Verify Billing Export Status

Ensure the following:

- **Detailed usage cost is Enabled**
- Dataset name is correct



Wait for Data Availability

- Initial data: within a **few hours**
- Typical availability: **within 24 hours**

Backfill Behavior (Important)

- If dataset location is **US or EU (multi-region)**:

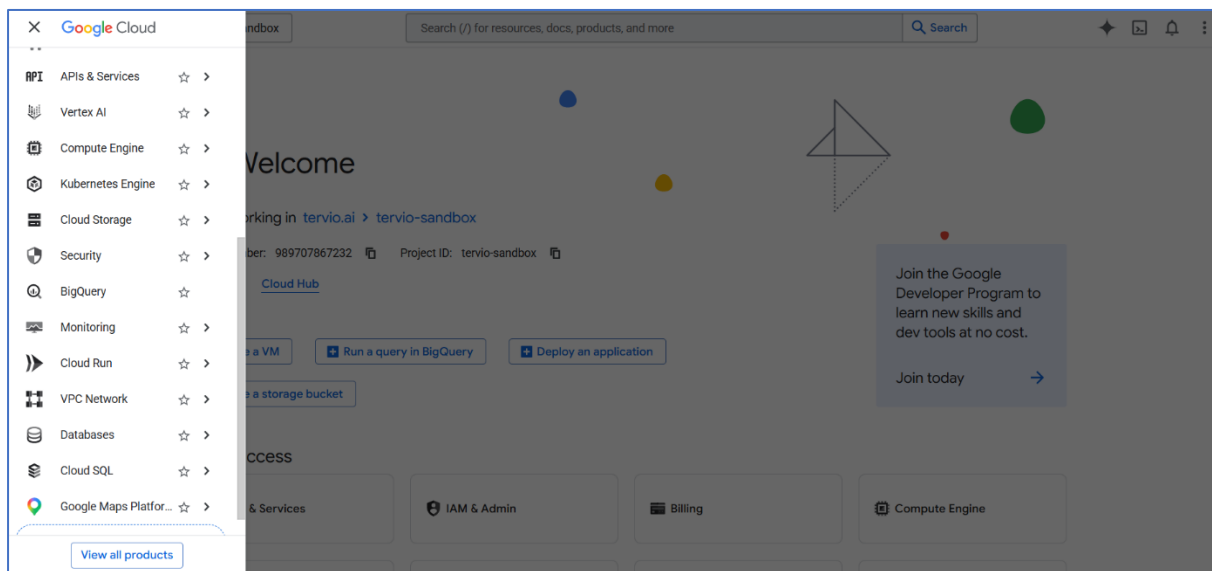
- Billing data from the **start of the previous month** will be automatically backfilled
- Backfill may take up to **5 days** to complete
- If dataset location is **regional**:
 - No backfill will occur
 - Data will only be available from the date export is enabled

Recurring Activity (Monthly or On Demand)

Once export is enabled, you can generate billing reports for any month.

Open BigQuery

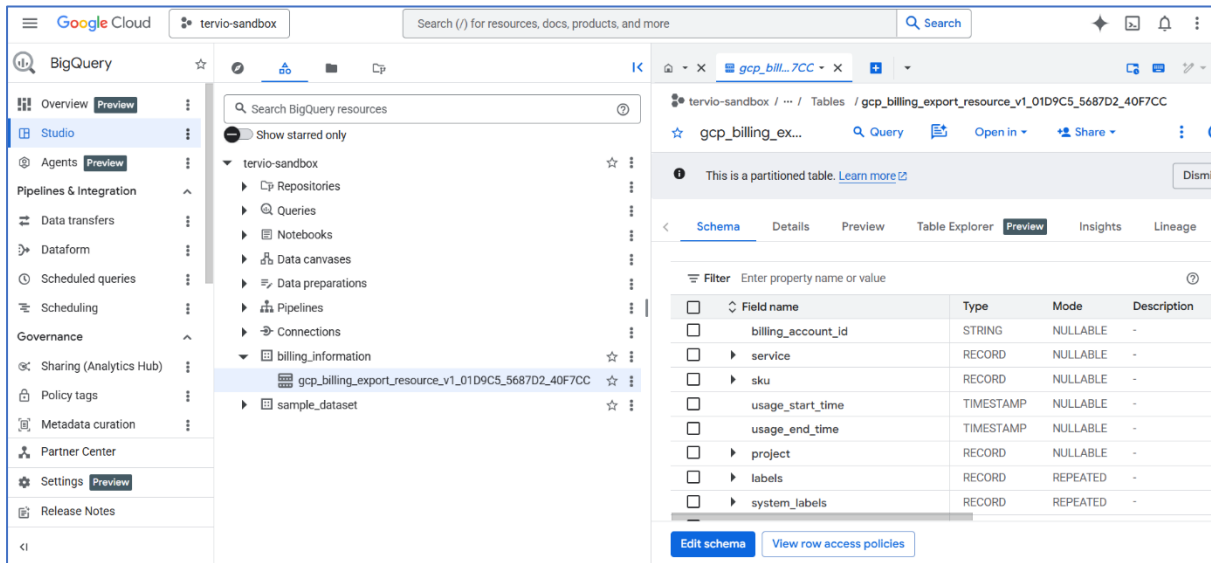
- From the Navigation Menu (☰), select **BigQuery**
- Open your project
- This is where you will run the export query



Locate Billing Table

In BigQuery:

- Expand your project
- Open dataset: **billing_information**
- Select table: **gcp_billing_export_resource_v1_<BILLING_ACCOUNT_ID>**
- Click **Query** to open the editor.
- Note: **<BILLING_ACCOUNT_ID>** represents your **actual billing account ID** (e.g., 1234AB-5678CD-9012EF)



Ensure Cloud Storage Bucket Exists

- Create a Cloud Storage bucket if not already available
- Ensure the bucket is accessible and you have write permissions
- Use this bucket in the export query

Run Export Query

- Replace the existing query in the BigQuery editor with the query provided below
- Click the **Run** button to execute the query
- The query will extract billing data and export it to Cloud Storage

EXPORT DATA

OPTIONS (

uri = 'gs://<your-bucket-name>/gcp_billing_extract_month_' ||

FORMAT_TIMESTAMP('%Y%m%d%H%M%S', CURRENT_TIMESTAMP()) || '-*.csv.gz',

format = 'CSV',

compression = 'GZIP',

overwrite = TRUE,

header = TRUE

)

AS

SELECT

invoice.month AS InvoiceMonth,

project.id AS ProjectID,

service.id AS ServiceID,

service.description AS ServiceDescription,

```
sku.id AS SKUID,  
sku.description AS SKUDescription,  
COALESCE(  
  NULLIF(location.region, ''),  
  NULLIF(location.location, ''),  
  'global'  
) AS Region,  
usage.amount_in_pricing_units AS UsageAmount,  
usage.pricing_unit AS UsageUnit,  
cost AS Cost,  
currency AS Currency,  
cost / currency_conversion_rate AS CostInUsd  
FROM  
  `WHERE  
  invoice.month = "YYYYMM"  
ORDER BY  
  ServiceDescription, SKUDescription;
```

Replace Placeholders

- **<your-bucket-name>** → Cloud Storage bucket name
- **<your_project>** → GCP project ID
- **<your_table_name>** → Billing export table name
- **YYYYMM** → Billing month (e.g., 202604)

Mandatory Fields (Required in Billing Report)

The following fields are **mandatory and must be included** in the billing report.

The report will not be processed correctly if any of these fields are missing:

- InvoiceMonth
- ProjectID
- ServiceID
- ServiceDescription
- SKUID
- SKUDescription
- Region
- UsageAmount
- UsageUnit

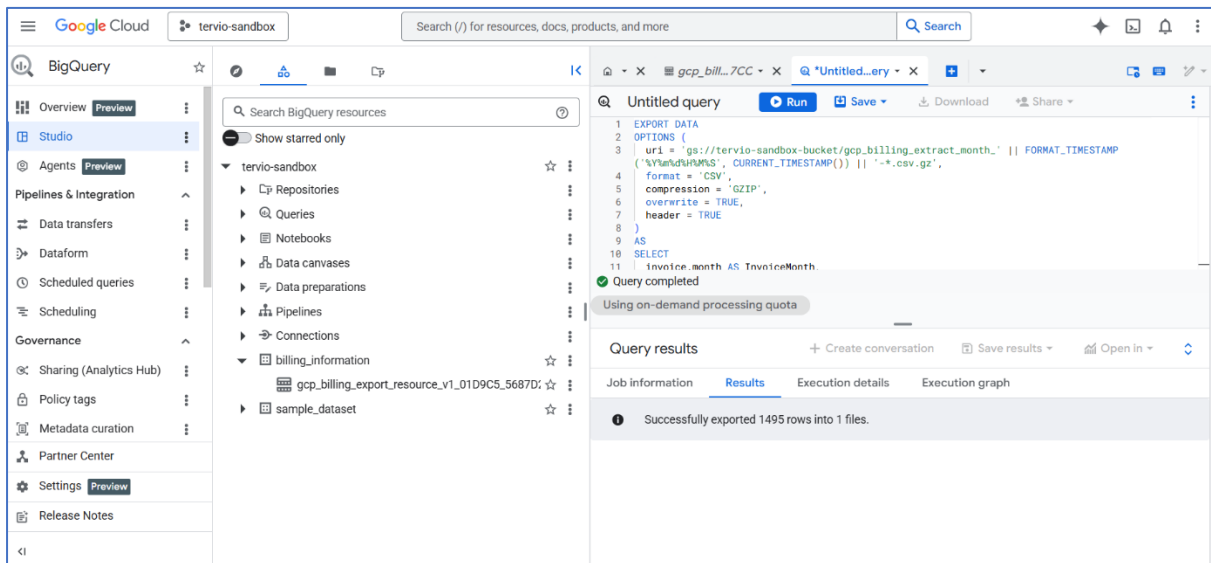
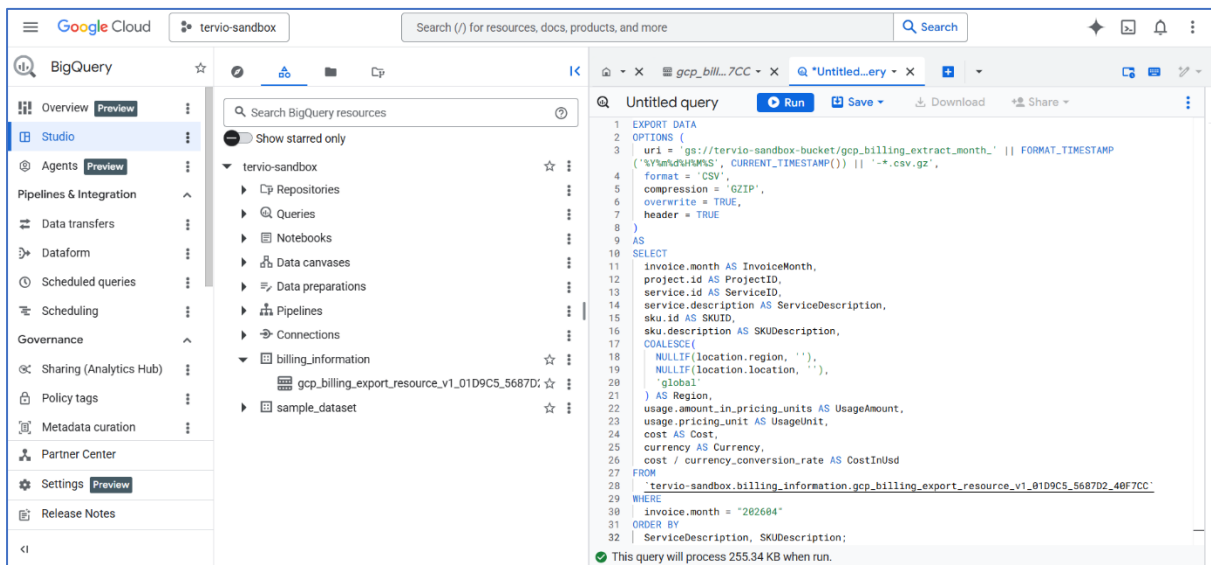
Optional Fields

The following fields are **optional** and can be included if available:

- Cost
- Currency
- CostInUsd

Export Behavior

- Output is stored in **Cloud Storage (not Excel directly)**
- Format: **CSV (GZIP compressed)**
 - Large exports may generate: **Multiple .csv.gz files**



Downloading the Report

Open Bucket

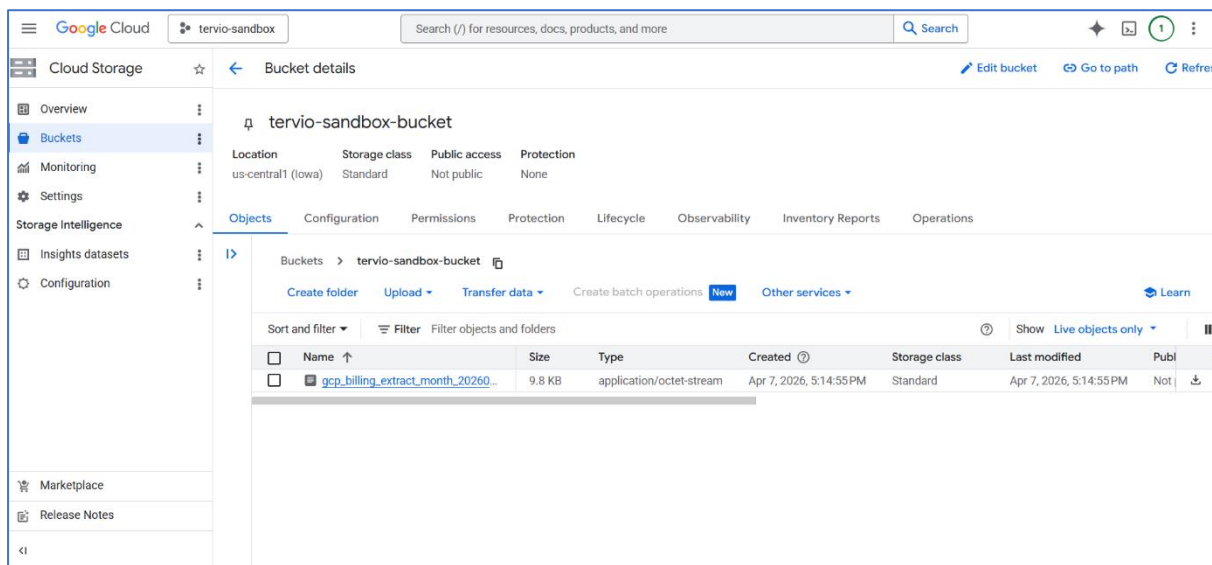
- Navigate to **Cloud Storage** → **Buckets**
- Open your bucket: **<your-bucket-name>**

Locate Files

- Files will be generated in the following format:
gcp_billing_extract_month_<timestamp>-* .csv.gz

Download Files

- Download all generated files to your local system
- Use the downloaded file(s) **as-is** as input to the Tervio Assessment Agent for processing and analysis.



Sample Output Format (CSV)

The exported billing data will be generated in CSV format (after extracting the .csv.gz file). Below is a sample representation of how the data will appear:

