

# GCP Billing Export Handbook

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## 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:

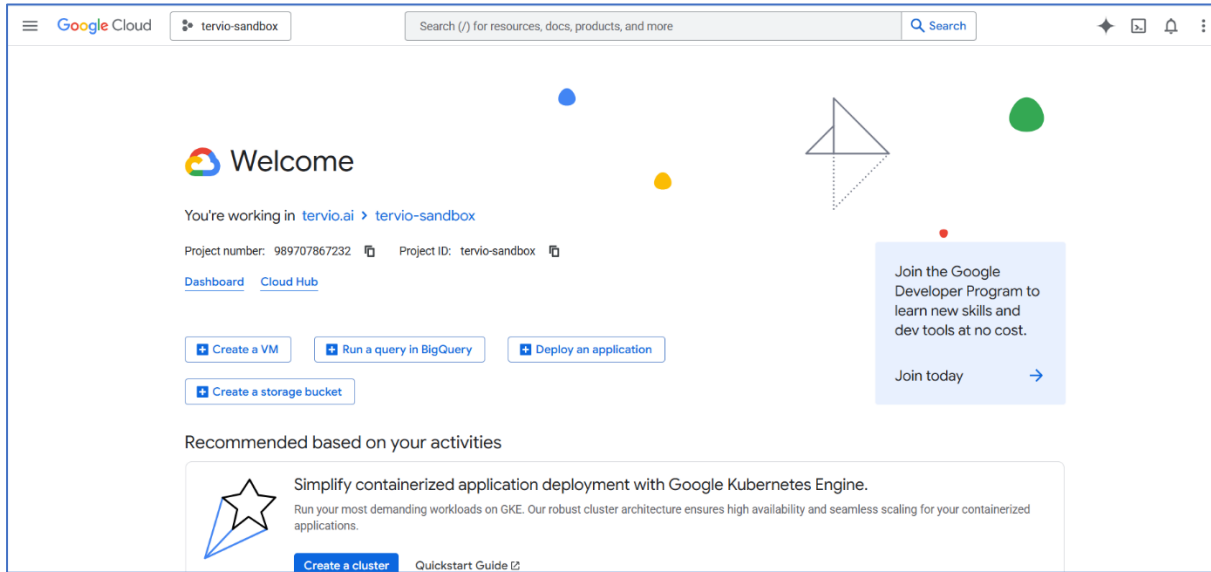
- You have access to a **GCP Billing Account**
- Billing is enabled on the target project
- The project used for **BigQuery** is linked to the **same Billing Account**
- Required permissions:
  - Billing Account Viewer / Costs Manager (or higher)
  - BigQuery Data Editor / Admin
  - Cloud Storage write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

## One-Time Setup (Per Billing Account)

Follow the steps below to enable detailed billing export:

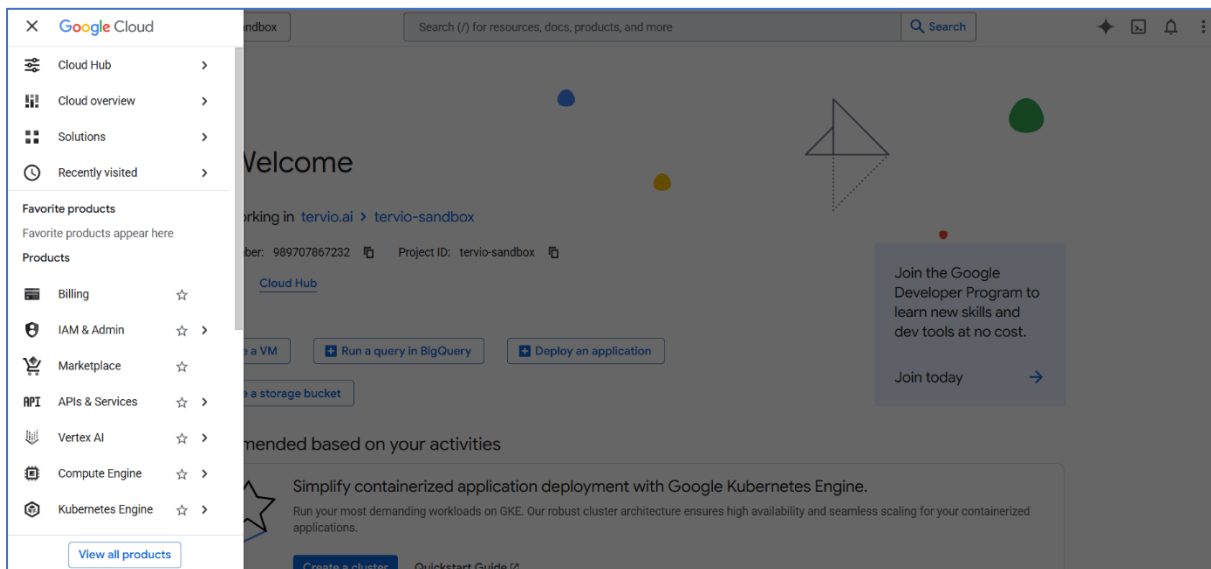
### Open Google Cloud Console

- 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*)



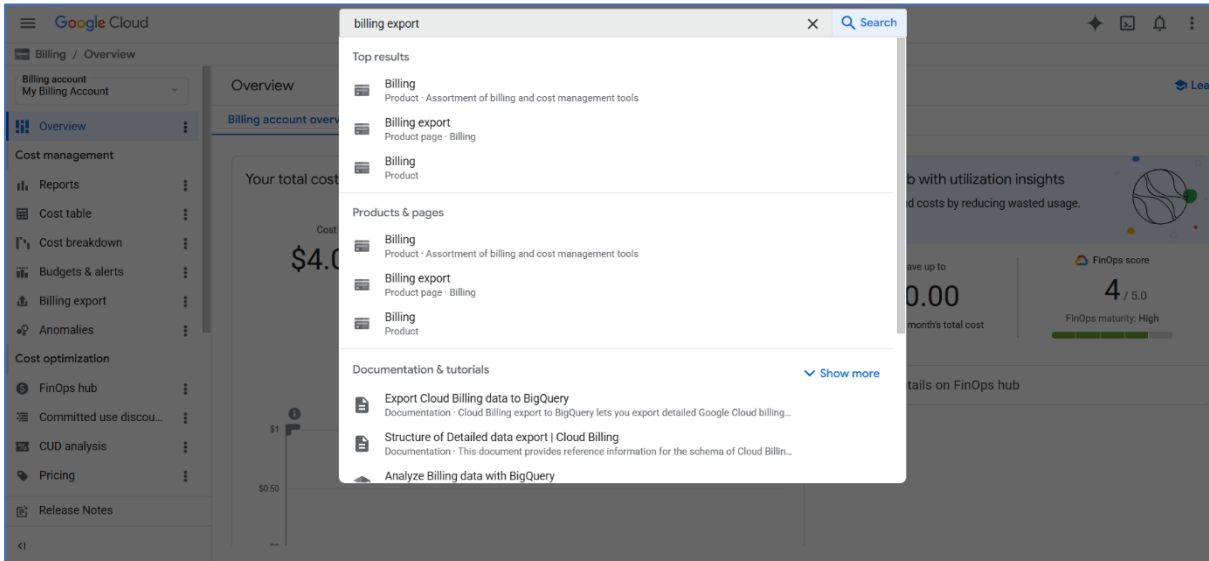
## Navigate to Billing

- 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

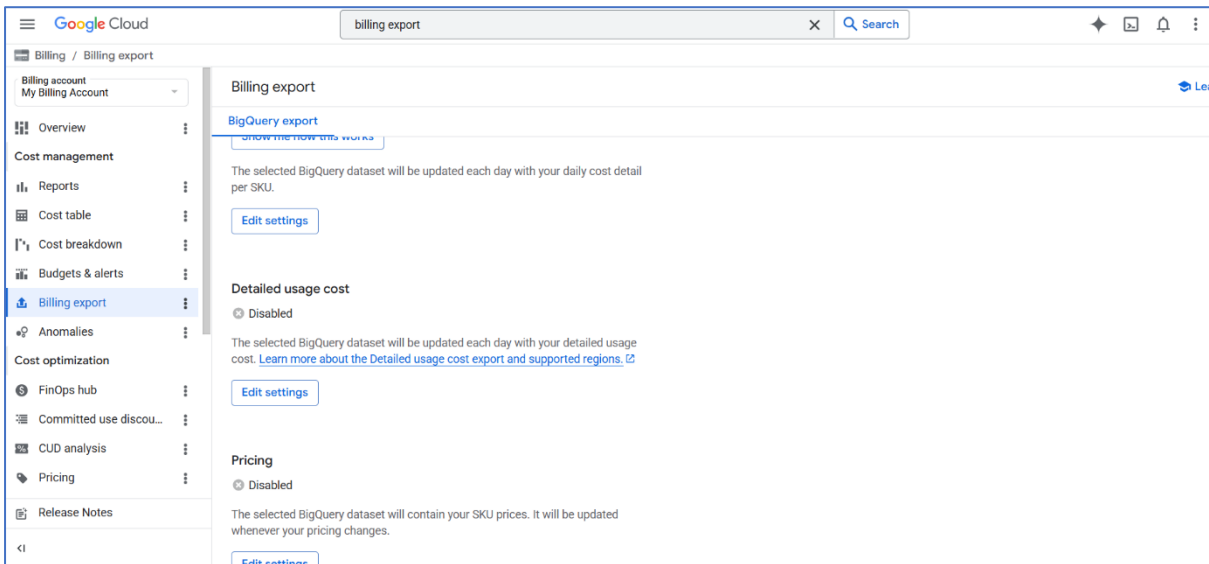
- Use the search bar and search for **“Billing export”**
- Open the **Billing export** page



## 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.

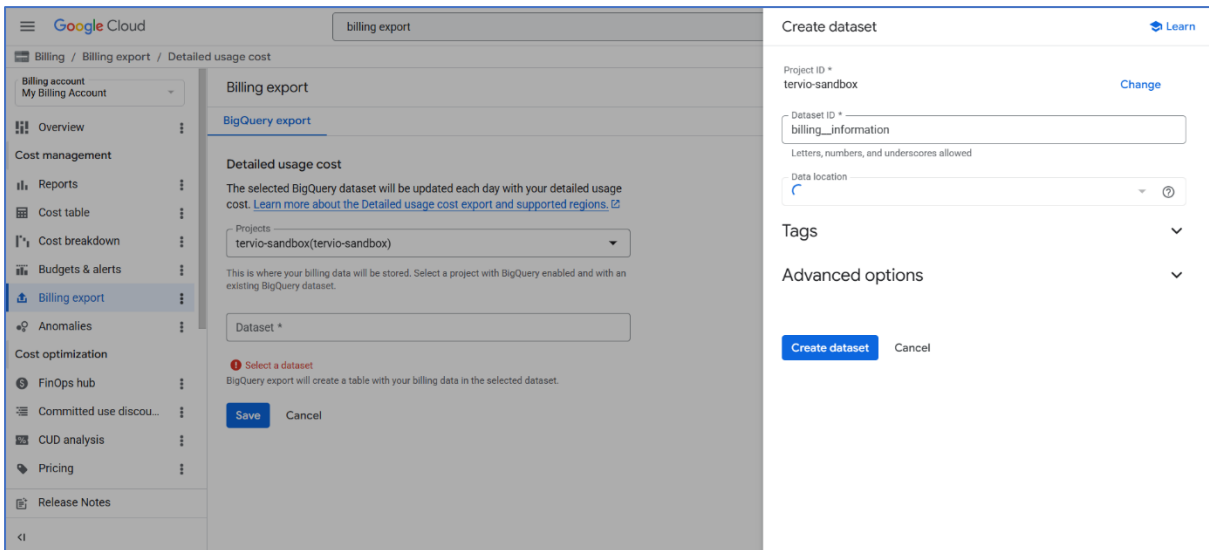
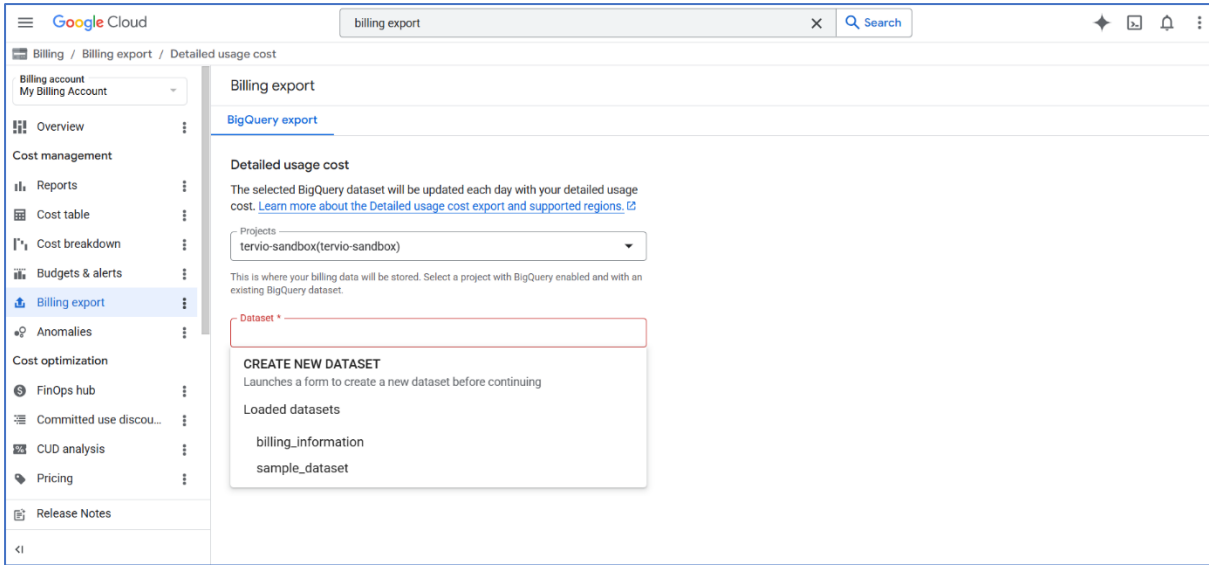


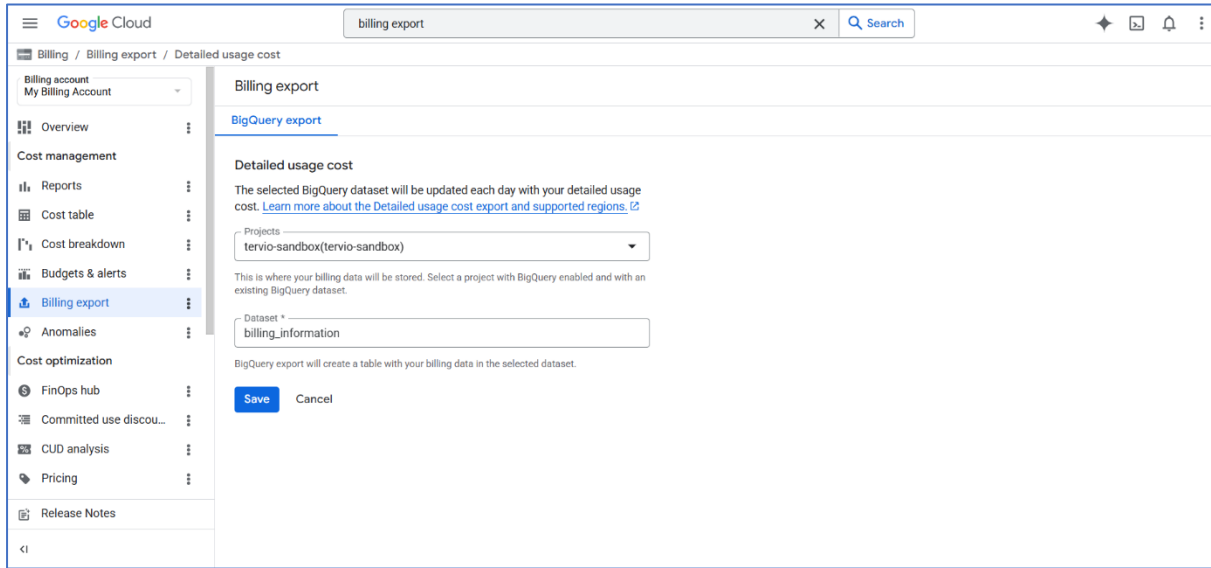
## Create or Select Dataset

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.

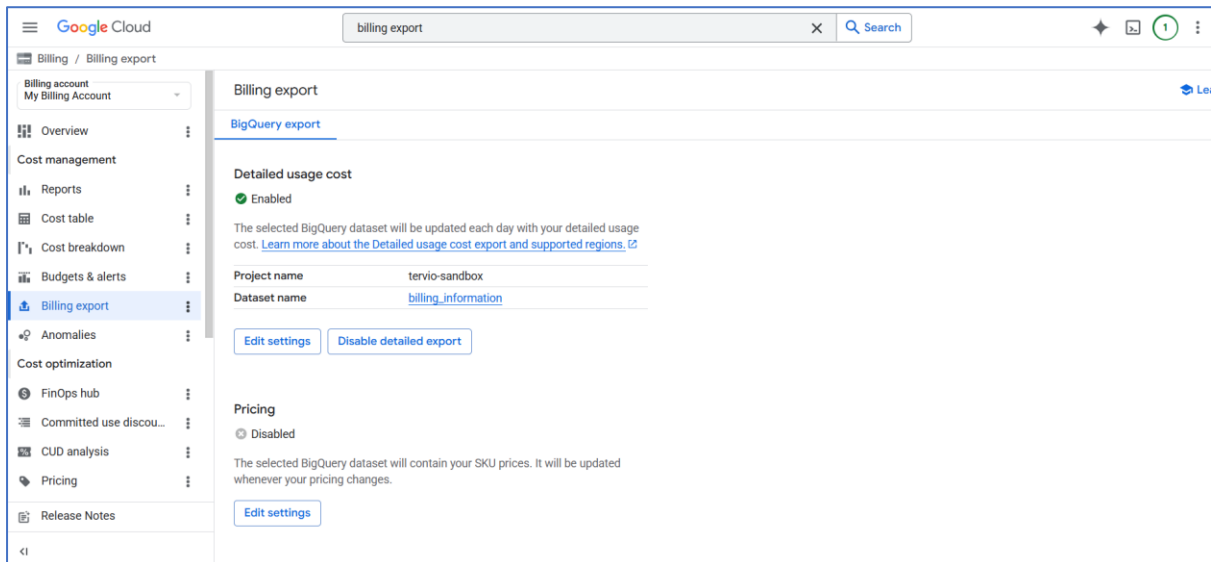




## Verify Billing Export Status

Ensure the following:

- **Detailed usage cost is Enabled**
- Dataset name is correct
- Export configuration has been saved successfully



## Wait for Data Availability

- Billing data may take **up to 24 hours** to become available after enabling Detailed Billing Export

- The **BigQuery** billing table (`gcp_billing_export_resource_v1_<BILLING_ACCOUNT_ID>`) may not appear immediately and is **created automatically** once billing data becomes available
- Query execution is possible **only after the billing table is available in the dataset**

### Backfill Behavior (Important)

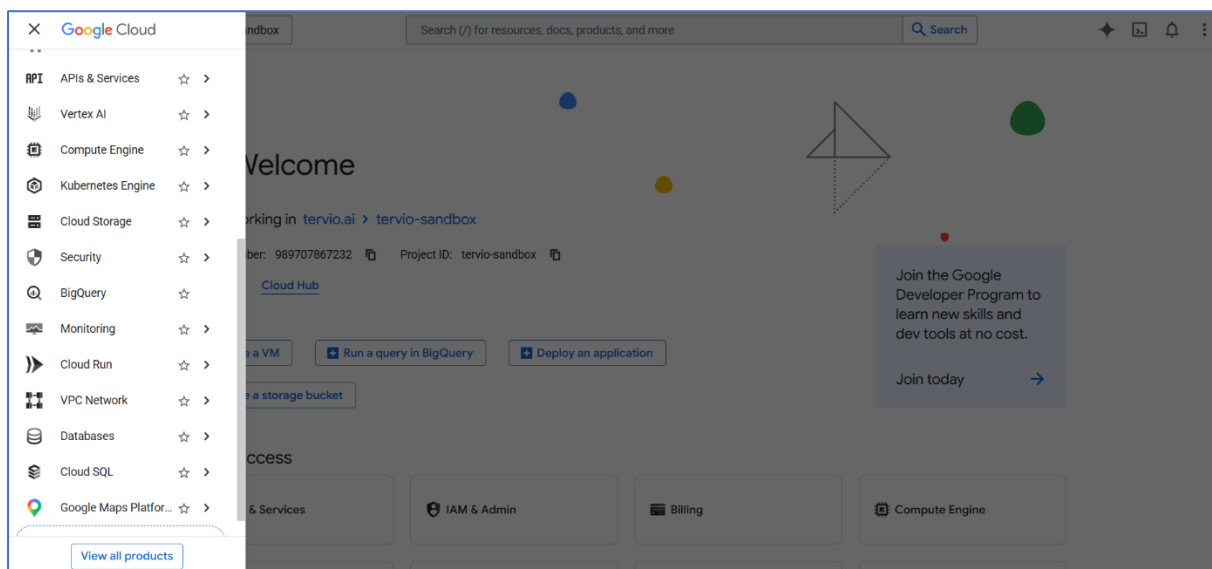
- If dataset location is **US or EU (multi-region)**:
  - Billing data from the **start of the previous month** will be automatically backfilled
  - Backfill processing begins **after initial billing data becomes available**
  - Backfill may take **up to 5 days** to complete
- If dataset location is **regional**:
  - **No backfill will occur**
  - Data will be available **only from the date export is enabled**

## Recurring Activity (Monthly or On Demand)

“On demand” refers to executing the export query for any required billing month after billing data becomes available in BigQuery. Once export is enabled and billing data is available in BigQuery, you can generate billing reports for any required month.

## Open BigQuery

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

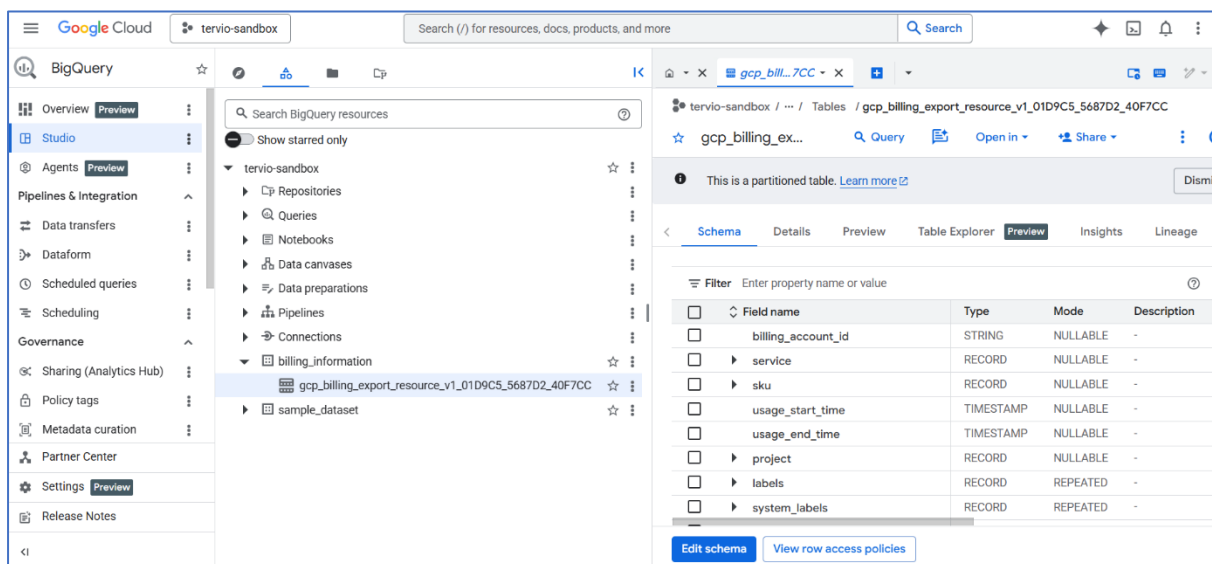


## Locate Billing Table

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)

**Note:** If the table is not yet visible, wait for billing data to become available and then refresh BigQuery.



## 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.

**Note:** This query can be executed only after the billing export table is available in BigQuery

```
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  
  `<your_project>.billing_information.<your_table_name>`  
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
- CostInUsd

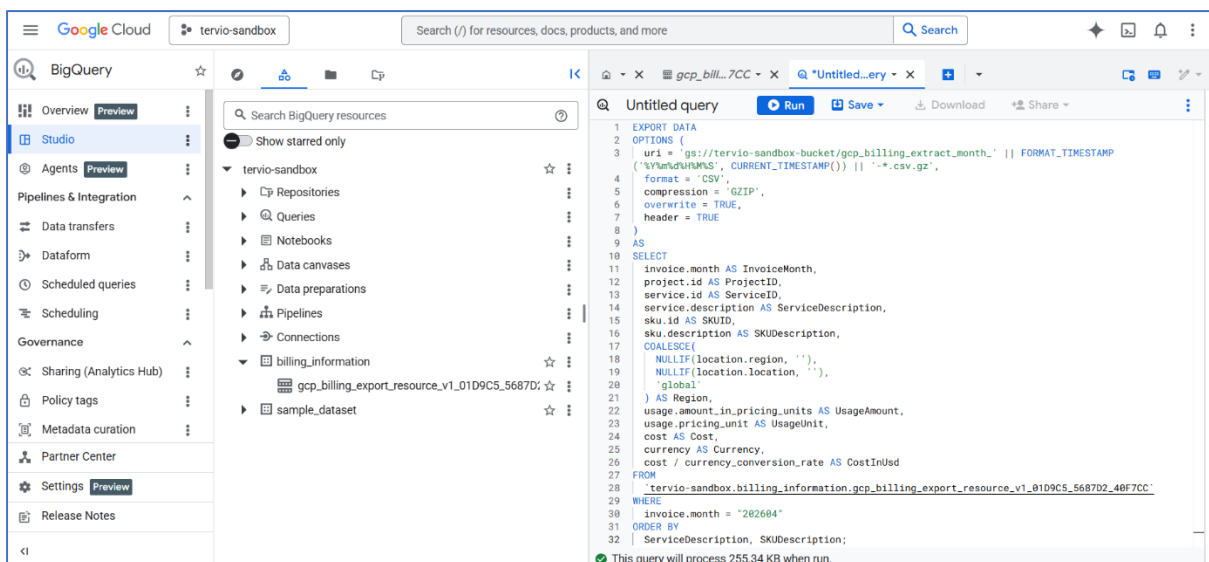
### Optional Fields

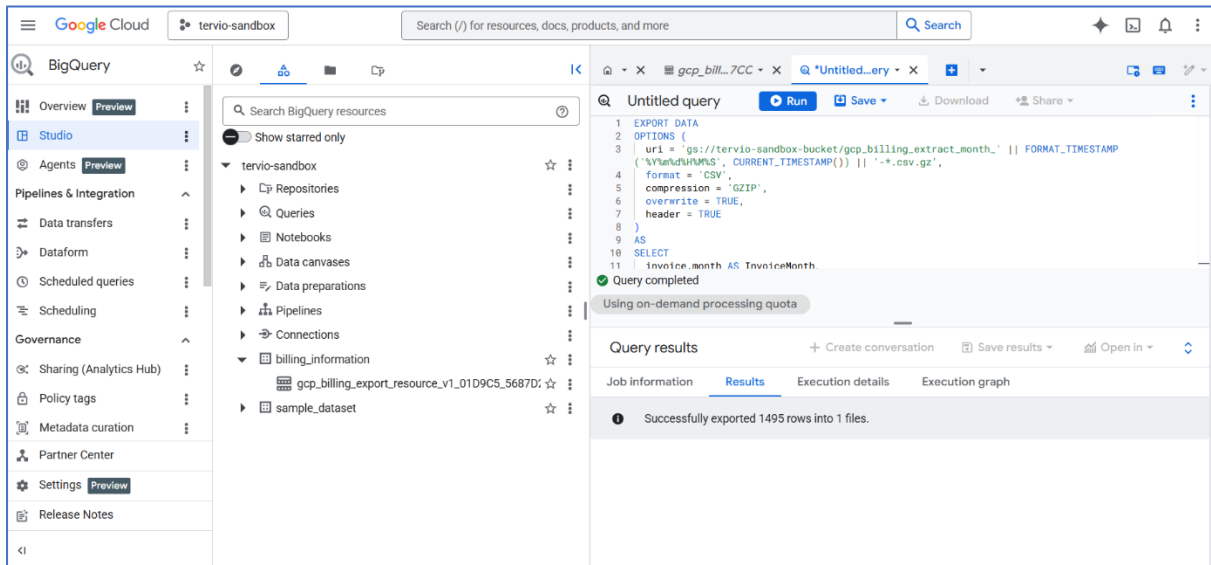
The following fields are **optional** and can be included if available:

- Cost
- Currency

### 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.



- Complete the one-time setup to enable billing export
- Run the export query for the required billing month
- Download the generated file(s) from Cloud Storage
- Upload the file(s) directly to the **Tervio Assessment Agent** for processing and analysis

## Support

If you have any questions or need further clarification on the steps outlined in this document, please contact us at [support@tervio.ai](mailto:support@tervio.ai).