

Google BigQuery Credentials

1. Register Google Cloud.

Click 'Try BigQuery free' and create an account for Google Cloud.

The screenshot shows the Google Cloud BigQuery product page. The header includes the Google Cloud logo and navigation links: Overview, Solutions, Products, Pricing, and Resources. On the right, there are links for Docs, Support, a language selector (English), Console, and Sign in. A green banner at the top of the main content area reads: "Register for a free digital pass to Next '23 for the latest product launches, demos, trainings, and more." with a right-pointing arrow.

The left sidebar contains a "BigQuery" section with links to Features, How It Works, and Common Uses. Under Common Uses, there are links for Transfer data into BigQuery, Data warehouse migration, Real-time analytics, Predictive analytics, Log analytics, Marketing analytics, and Data clean rooms. Below this are links for Pricing, Partners & Integration, and FAQ. At the bottom of the sidebar are links for Release notes, Documentation, Training, and Architecture center.

The main content area features the BigQuery logo and the heading "Cloud data warehouse to power your data-driven innovation". Below this is a paragraph: "BigQuery is a serverless and cost-effective enterprise data warehouse that works across clouds and scales with your data. Use built-in ML/AI and BI for insights at scale." A red arrow points to the "Try BigQuery free" button. Next to it is a "Contact sales" button. Below these buttons, text states: "New customers get \$300 in free credits to spend on BigQuery." and "All customers get 10 GB storage and up to 1 TB queries free per month."

Below the main text is a "FEATURES" section. On the left, it says "Unified experience for all analytics users". On the right, it describes "BigQuery Studio" as a single, unified interface for all data practitioners, simplifying workflows from data ingestion to ML model creation and use, and allowing the use of simple SQL to access Vertex AI foundational models.

On the right side of the main content area, there is a "Product highlights" section with three bullet points: "Access and analyze data across clouds", "Built-in machine learning for all data types using simple SQL", and "Real-time analytics with streaming and built-in BI". Below this is a "Learn BigQuery in a minute" section with a video icon and the text "1-minute video".

 Try Google Cloud for free

Step 1 of 2 Account Information



Wei Hu
wei9@illinois.edu

[SWITCH ACCOUNT](#)



Good news! You're eligible for an additional \$100.00 in Free Trial credits for a total of \$400.00. You'll receive these credits within 24 hours of completing signup.

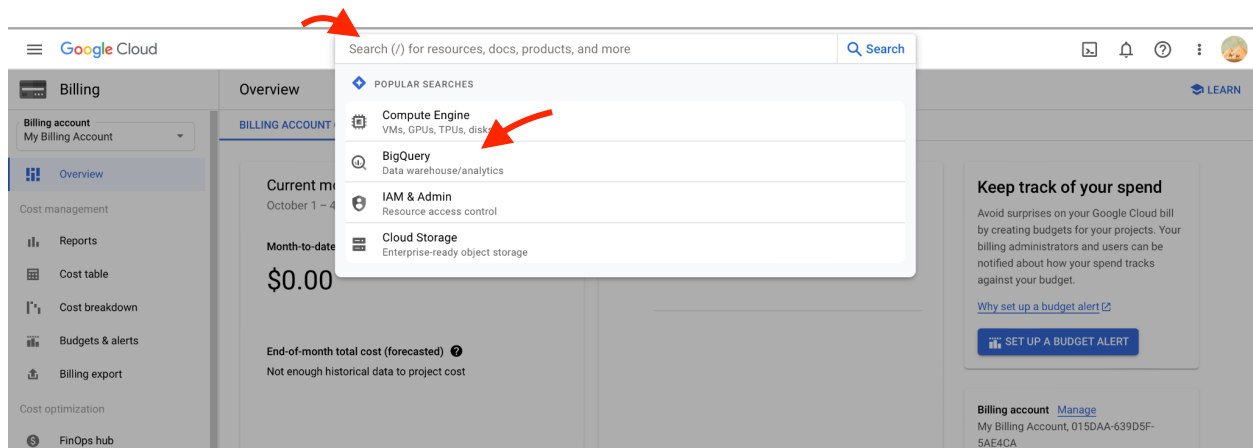
Country

United States

By using this application, you agree to the [Google Cloud Platform](#), [Supplemental Free Trial](#), and [any applicable services and APIs](#) Terms of Service.

[AGREE & CONTINUE](#)

2. Search and select 'BigQuery'



3. Create a project in Google Cloud.

Select 'CREATE PROJECT', name your project, and choose to enter your project page.

Google Cloud

Select a project

Search (/) for resources, docs, products, and more

Search

BigQuery

SQL workspace

Analysis

SQL workspace

Data transfers

To view this page, select a project.

CREATE PROJECT

Google Cloud

Search (/) for resources, docs, products, and more

New Project

You have 24 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name *

iguide-gdelt

Project ID: iguide-gdelt. It cannot be changed later. [EDIT](#)

Location *

No organization

BROWSE

Parent organization or folder

CREATE

CANCEL

Google Cloud

iguide-gdelt

Search (/) for resources, docs, products, and more

Search

Cloud overview

Products & solutions

PINNED

APIs & Services

Billing

IAM & Admin

Marketplace

Compute Engine

Kubernetes Engine

Cloud Storage

BigQuery

VPC network

Cloud Run

SQL

Security

Google Maps Platfor...

MORE PRODUCTS

DASHBOARD

ACTIVITY

RECOMMENDATIONS

CUSTOMIZE

Project info

Project name
iguide-gdelt

Project number
897163241651

Project ID
iguide-gdelt

[ADD PEOPLE TO THIS PROJECT](#)

[Go to project settings](#)

Resources

BigQuery
Data warehouse/analytics

SQL
Managed MySQL, PostgreSQL, SQL Server

Compute Engine
VMs, GPUs, TPUs, Disks

Storage
Multi-class multi-region object storage

Cloud Functions
Event-driven serverless functions

Cloud Run
Serverless for containerized applications

Trace

RPI APIs

Requests (requests/sec)

No data is available for the selected time frame.

[Go to APIs overview](#)

Google Cloud Platform status

Cloud Memorystore

We are investigating an issue with some 'Cloud Memorystore for Redis' instances that fail health checks and are not being repaired correctly, leaving them in an unavailable state.

Began at 2023-10-02 (19:55:16)

Google Kubernetes Engine

Global: Google Kubernetes Engine Nodepool Upgrade Failures

Began at 2023-10-02 (11:29:26)

All times are US/Pacific

Data provided by status.cloud.google.com

[Go to Cloud status dashboard](#)

Billing

Estimated charges

For the billing period Oct 1 - 4, 2023

USD \$0.00

[Take a tour of billing](#)

[View detailed charges](#)

Monitoring

Create my dashboard

Set up alerting policies

Create uptime checks

4. Enable the 'BigQuery' API and create your credentials.

Choose 'APIs & Services' → 'Enabled APIs & services' → Choose 'BigQuery API'

The image shows two screenshots of the Google Cloud console interface. The top screenshot shows the 'APIs & Services' menu on the left sidebar, with a red arrow pointing to 'Enabled APIs & services'. The bottom screenshot shows the 'Enabled APIs & services' page, with a red arrow pointing to the 'Filter' button at the bottom. Below the filter button, a list of APIs is displayed, including 'BigQuery API', 'BigQuery Migration API', and 'BigQuery Storage API'. The 'BigQuery API' is highlighted with a red arrow.

Google Cloud iguide-gdelt Search (/)

APIs & Services

- Cloud overview
- Products & solutions
- APIs & Services**
- Billing
- IAM & Admin
- Marketplace
- Compute Engine

Enabled APIs & services

- Library
- Credentials
- OAuth consent screen
- Page usage agreements
- Go to project settings

Project info

Project name: iguide-gdelt

TO THIS PROJECT

1 hour 6 hours 12 hours **1 day** 2 days 4 days 7 days 14 days 30 days

Traffic

No data is available for the selected time frame.

Errors

No data is available for the selected time frame.

Median latency

No data is available for the selected time frame.

Filter Filter

time

Requests Errors (%) Latency, median (ms) Latency, 95% (ms)

[BigQuery API](#)

[BigQuery Migration API](#)

[BigQuery Storage API](#)

Choose 'CREATE CREDENTIALS'.

Google Cloud iguide-gdelt Search (/) for resources, docs, products, and more Search

APIs & Services API/Service Details [DISABLE API](#)

Enabled APIs & services Library Credentials OAuth consent screen Page usage agreements

To use this API, you may need credentials. [CREATE CREDENTIALS](#)

BigQuery API

A data platform for customers to create, manage, share and query data.

By Google Enterprise API

Service name	Type	Status
bigquery.googleapis.com	Public API	Enabled

[LEARN MORE](#) [TRY IN API EXPLORER](#)

[METRICS](#) [QUOTAS](#) [CREDENTIALS](#) [COST](#)

1 Credential Type

Which API are you using?

Different APIs use different auth platforms and some credentials can be restricted to only call certain APIs.

Select an API *
BigQuery API

What data will you be accessing? *

Different credentials are required to authorize access depending on the type of data that you request. [Learn more](#)

This Google Cloud API is usually accessed from a server using a service account. To create a service account, select "Application data".

- ☐ User data
Data belonging to a Google user, like their email address or age. User consent required. This will create an OAuth client.
- ☒ Application data
Data belonging to your own application, such as your app's Cloud Firestore backend. This will create a service account.

[NEXT](#)

2 Your Credentials

[DONE](#)

[CANCEL](#)

1 **Service account details**

Service account name
iguide-gdelt

Display name for this service account

Service account ID *
iguide-gdelt X ↺

Email address: iguide-gdelt@iguide-gdelt.iam.gserviceaccount.com 📋

Service account description
Describe what this service account will do

[CREATE AND CONTINUE](#)

2 **Grant this service account access to project (optional)**

3 **Grant users access to this service account (optional)**

[DONE](#) [CANCEL](#)

✓ **Service account details**

2 **Grant this service account access to project (optional)**

Grant this service account access to iguide-gdelt so that it has permission to complete specific actions on the resources in your project. [Learn more](#)

Role
Owner ▼

Full access to most Google Cloud resources. See the list of included permissions.

[+ ADD ANOTHER ROLE](#)

[CONTINUE](#)

3 **Grant users access to this service account (optional)**

[DONE](#) [CANCEL](#)

5. Create .json key for your credentials.

Choose 'Credentials', and select service account you just created.

APIs & Services

- Enabled APIs & services
- Library
- Credentials**
- OAuth consent screen
- Page usage agreements

Credentials

[+ CREATE CREDENTIALS](#) [DELETE](#) [RESTORE DELETED CREDENTIALS](#)

Create credentials to access your enabled APIs. [Learn more](#)

Remember to configure the OAuth consent screen with information about your application. [CONFIGURE CONSENT SCREEN](#)

API Keys

<input type="checkbox"/>	Name	Creation date ↓	Restrictions	Actions
No API keys to display				

OAuth 2.0 Client IDs

<input type="checkbox"/>	Name	Creation date ↓	Type	Client ID	Actions
No OAuth clients to display					

Service Accounts

[Manage service accounts](#)

<input type="checkbox"/>	Email	Name ↑	Actions
<input type="checkbox"/>	iguide-gdelt@iguide-gdelt.iam.gserviceaccount.com	iguide-gdelt	Edit Delete

Choose 'KEYS' → 'ADD KEY' → 'Create new key' → Key type 'JSON' → Create. And you will get your .json credentials downloaded.

← iguide-gdelt

DETAILS PERMISSIONS **KEYS** METRICS LOGS

Keys

Service account keys could pose a security risk if compromised. We recommend you avoid doing so. For more information, see [more about the best way to authenticate service accounts on Google Cloud here](#).

Add a new key pair or upload a public key certificate from an existing key pair.

Block service account key creation using [organization policies](#).
[Learn more about setting organization policies for service accounts](#)

ADD KEY ▼

- Create new key
- Upload existing key

Key creation date	Key expiration date
-------------------	---------------------

Create private key for "iguide-gdelt"

Downloads a file that contains the private key. Store the file securely because this key can't be recovered if lost.

 Key type

☒ JSON

Recommended

☐ P12

For backward compatibility with code using the P12 format

CANCEL

 CREATE