🗺️ Cloud Console - Metrics

Currently the cloud console provides the last 30 days usage by credential but it is notated in requests per second. This is not a user friendly experience and the below explains workarounds to calculate those values and arrange them into a format showing requests per day.

Metrics in the cloud console are logged in Zulu time. Each row represents an elapsed time according to the duration selected in the cloud console.

Duration	Logger Frequency	Time in seconds
1 hour	1 minute	60
6 hours	1 min 48 sec	108
12 hours	3 min 36 sec	216
1 day	7 min 12 sec	432
2 days	14 min 24 sec	864
4 days	28 min 48 sec	1,728
7 days	50 min 24 sec	3,024
14 days	1 hrs 40 min 48 sec	6,048
30 days	3 hrs 36 mins	12,960

The below steps will guide you through calculating your usage from the cloud console to show daily usage by Credential for the past 30 days.

1. Go to the **APIs & Services Dashboard**.
2. Select the **Metrics** tab.
3. Click dropdown under **"Select Graphs"** and choose **Traffic by Credential**.
4. Export **Traffic by Credential.csv**
5. From downloads save **Traffic by Credential.csv** as google sheets.

Each row represents 3 hours and 36 minutes of usage. Since we are calculating from requests per second we need to multiply by 12,960 the number of seconds in 3 hours and 36 minutes.

	A	B	C	D
1	time	apikey:***************	project_number:**********	
2	2019-04-23T22:16:09.829Z	0.02430555556	0.0008487654321	
3	2019-04-24T01:52:09.829Z	0.01813271605	0.0007716049383	

Since we only want usage authenticated by API Key we can redact the column "project_number:"

- Insert a new column for the date and apply formula =LEFT(A2,10).
- Insert an additional column for each API Key column in your sheet and apply formula =B2*12960.

	A	B	C	D
1	time	apikey:xyz	Date	xyz
2	2019-04-23T22:16:09.829Z	0.02600308642	=LEFT(A2,10)	=B2*12960
3	2019-04-24T01:52:09.829Z	0.2097222222		

Create a pivot table from the Date and API Keys columns after applying the formula.

1. In Sheets, select columns and rows.
2. From Data menu choose Pivot Table.

The pivot table will show your daily API Key usage.

The below steps will guide you through calculating your usage from the cloud console to show daily usage by Credential and API for the past 30 days.

1. Go to the **APIs & Services Dashboard**.
2. Select the **Metrics** tab.
3. Click dropdown under **"Select Graphs"** and choose **Traffic by Credential**.
4. Have only 1 of 14 APIs selected under **"Filters".**
5. Export **Traffic by Credential.csv**
6. From downloads save **Traffic by Credential.csv** as google sheets.

In this example we have selected the Geocoding API under Filters.

1. Rename file **Traffic by Credential** to **Geocoding by Credential.**
2. Add three additional columns for **date**, **api_key**, and **geocoding**.
3. Apply formulas =LEFT(A2,10) under date and =B2*12960 under geocoding.
4. Paste your API Key to all rows under api_key.

	A	B	C	D	E	F
1	time	apikey:Abc	apikey:Xyz	date	api_key	geocoding
2	2019-05-04T20:13:55.411Z	0.0002314814815	0.1793209877	=LEFT(A2,10)	Abc	=B2*12960
3	2019-05-04T23:49:55.411Z	0.03186728395	0.01172839506		Abc	

Repeat the following steps where multiple API Keys are authenticating the same API.

- Copy all rows under date and paste values only after the last row of date.
- Paste additional API Key starting on the last row under api_key.
- Apply formula =C2*12960 to calculate additional API Key usage.

Create a pivot table from the date, api_key, and geocoding columns.

1. In Sheets, select columns and rows.
2. From Data menu choose Pivot Table.
3. Add date and api_key as Rows and geocoding as Values. Alternatively add date as Rows, api_key as Columns and geocoding as Values.
4. Do not select "Show totals".

The pivot table will show your daily API usage by Credential.