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Prices listed in this document are subject to change.

Networking

data transfer fees. Cloud Functions includes a perpetual free tier to allow you to experiment with the platform at no charge. Note that even for free tier usage, we require a valid billing account.

Platform SKUs apply. Note: Cloud Functions uses Cloud Build to convert your function source code into an executable image, and Container Registry to store the built image. For newer runtimes pricing for Cloud Build and Container Registry is not included in the Cloud Functions pricing below. Pricing for these services can be reviewed on the Cloud Build Pricing and Container Registry Pricing pages.

All prices quoted are in US Dollars. If you pay in a currency other than USD, the prices listed in your currency on Cloud

Cloud Functions are priced according to how long your function runs, how many times it's invoked and how many

resources you provision for the function. If your function makes an outbound network request, there are also additional

Cloud Functions Pricing

Function invocations are charged at a flat rate, independent of the source of the invocation, including functions invoked

Price/Million

Free

\$0.40

from an HTTP request (HTTP functions), background functions, and invocations resulting from the call API.

Invocations per Month

If you pay in a currency other than USD, the prices listed in your currency on Cloud Platform SKUs apply.

This section provides details about Cloud Functions pricing.

Beyond 2 million

First 2 million

Compute Time

this calculation are:

GB-Seconds

• GHz-Seconds

Invocations

month and are charged regardless of the outcome of the function or its duration.

Invocations are charged at a per-unit rate of \$0.0000004 per invocation, excluding the first 2 million free invocations per

Compute time is measured from the time your function receives a request to the time it completes, either through you
signaling completion, or through a timeout, other failure or any other termination. Compute time is measured in 100ms
increments, rounded up to the nearest increment. For example, a function executing for 260ms would be billed as 300ms.
Fees for compute time are variable based on the amount of memory and CPU provisioned for the function. Units used in

• 1 GHz-second is 1 second of wallclock time with a 1GHz CPU provisioned

Price/100ms (Tier 1 Price)

\$0.000000231

\$0.00000463

\$0.00000925

\$0.00001650

\$0.000002900

Disk size, memory, and network usage are calculated in gigabytes (GB), where 1GB is 2^30 bytes. This unit of

- Cloud Functions can be provisioned as one of 5 types:

measurement is also known as a gibibyte (GiB). 1GHz is considered as 10⁹ Hertz:

CPU¹

200MHz

400MHz

800MHz

1.4 GHz

2.4 GHz

More generally, the cost of one second of compute time is as follows:

• 1 GB-second is 1 second of wallclock time with 1GB of memory provisioned

Memory 128MB

256MB

512MB

1024MB

2048MB

Free Tier

If you pay in a currency other than USD, the prices listed in your currency on Cloud Platform SKUs apply. ¹ CPU allocations are an approximation. Actual allocation of CPU clock cycles may vary slightly across function invocations.

Tier 1 Pricing Unit **Tier 2 Pricing** \$0.0000025 \$0.000035 **GB-Second GHz-Second** \$0.0000100 \$0.0000140 If you pay in a currency other than USD, the prices listed in your currency on Cloud Platform SKUs apply.

Cloud Functions provides a perpetual free tier for compute-time resources, which includes an allocation of both GB-

GHz-seconds of compute time, and 5GB of Internet egress traffic per month. The free tier is measured as a dollar

is based on whether the region in which the function is running is in Tier 1 or Tier 2. In other words, if a function is

Outbound data transfer (that is, data transferred from your function out to somewhere else) is measured in GB and

charged at a flat rate. Outbound data to other Google APIs in the same region is free, as is inbound data. Where the

Price/GB

5GB Free

\$0.12

seconds and GHz-seconds. In addition to the 2 million invocations, the free tier provides 400,000 GB-seconds, 200,000

equivalent to the Tier 1 pricing listed in the table above. The equivalent dollar amount is allocated to you whether you

run your functions in a region with Tier 1 pricing, Tier 2 pricing, or both. However, the deduction of usage of the free tier

running in a region with Tier 1 pricing, the deduction is based on Tier 1 pricing. Likewise, if a function is running in a region with Tier 2 pricing, the deduction is based on Tier 2 pricing.

If you pay in a currency other than USD, the prices listed in your currency on Cloud Platform SKUs apply.

Note that even for free tier usage, we require a valid billing account.

Google API you are using is global (i.e. not region-specific), it is considered to be the same region.

Outbound Data (Egress)

Type

Networking

Outbound Data per month Inbound Data (Ingress) Free Outbound Data to Google APIs in the same region Free

	charge relates to egress of the function source code, files, and archives uploaded during deployment. This standard <u>GCP Network pricing</u> applies for this egress charge from Australia.
Lo	ocal Disk
W	loud Functions provides access to a local disk mount point (/tmp) which is known as a "tmpfs" volume in which data ritten to the volume is stored in memory. There is no specific fee associated with this however writing data to the mountpoint will consume memory resources provisioned for the function.

Note: These examples do not include costs associated with Cloud Build or Container Registry. See <u>Building Cloud Functions</u>

Note: For usage of Cloud Functions in Australia, there is an additional network egress charge when deploying your functions. This

A simple background function with 128MB of memory and a 200MHz CPU, invoked 10 million times per month and running for 300ms each time using only Google APIs (no billable egress).

Calculations

Invocations

10,000,000

None

Metric

GHz-seconds

Networking

Total / Month

Calculations

Invocations

50,000,000

Networking

Metric

Invocations

Networking

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Compute Time

Compute Time

Pricing Examples

This section provides some pricing examples.

Images for more information.

Simple Background Function

 $(128/1024) \times 0.3s = 0.0375 \text{ GB-seconds per invocation}$ $(200/1000) \times 0.3s = 0.0600 \text{ GHz-seconds per invocation}$

Net Value

8,000,000

400,000

< 0

0

A medium complexity HTTP Function with 256MB of memory and a 400MHz CPU, invoked 50 million times per month

via HTTP, running for 500ms each time and sending 5KB of data back to the caller (5KB egress per invocation).

Free Tier

2,000,000

400,000

200,000

5

If you pay in a currency other than USD, the prices listed in your currency on Cloud Platform SKUs apply.

Unit Price

\$0.0000004

\$0.0000025

\$0.0000100

\$0.12

Total Price

\$3.20

\$0.00

\$4.00

\$0.00

\$7.20

Total Price

\$19.20

\$14.63

\$98.00

\$28.01

$10,000,000 \times 0.0600 = 600,000 \text{ GHz-seconds per month}$ **Networking**

 $10,000,000 \times 0.0375 = 375,000 \text{ GB-seconds per month}$

Gross Value

600,000

0

Invocations 10,000,000 **GB-seconds** 375,000

High Volume HTTP Function

(2	256/1024) x 0.5s = 0.125 GB-seconds per invocation
(4	400/1000) x 0.5s = 0.200 GHz-seconds per invocation
50	0,000,000 x 0.125 = 6,250,000 GB-seconds per month

Free Tier

2,000,000

5

6,250,000 GB-seconds 400,000 GHz-seconds 10,000,000 200,000

238.42

Maps Platform pricing

See all products

 $50,000,000 \times 0.200 = 10,000,000 \text{ GHz-seconds per month}$

Gross Value

50,000,000

 $50,000,000 \times (5 / 1024 / 1024) = 238.42 \text{ GB of egress traffic per month}$

Total / Month \$159.84 If you pay in a currency other than USD, the prices listed in your currency on Cloud Platform SKUs apply. Was this page helpful? Send feedback

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Net Value

48,000,000

5,850,000

9,800,000

233.42

Unit Price

\$0.0000004

\$0.0000025

\$0.0000100

\$0.12

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