Prices listed in this document are subject to change.

Pricing

Customers

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

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Pricing

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 data transfer fees. Cloud Functions includes a perpetual free tier to allow you to experiment with the platform at no

All prices quoted are in US Dollars. When charging in local currency, Google will convert the prices listed into applicable local currency pursuant to the conversion rates published by leading financial institutions.

Cloud Functions Pricing

This section provides details about Cloud Functions pricing.

Invocations

Function invocations are charged at a flat rate, independent of the source of the invocation, including functions invoked from an HTTP request (HTTP functions), background functions, and invocations resulting from the call API.

Invocations per Month	Price/Million			
First 2 million	Free			
Beyond 2 million	\$0.40			
Invocations are charged at a per-unit rate of \$0.0000004 per invocation, excluding the first 2 million free invocations per				

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

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

this calculation are: · GB-Seconds

- 1 GB-second is 1 second of wallclock time with 1GB of memory provisioned · GHz-Seconds
- 1 GHz-second is 1 second of wallclock time with a 1GHz CPU provisioned

Memory

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

measurement is also known as a gibibyte (GiB). 1GHz is considered as 10^9 Hertz:

CPU¹

Cloud Functions can be provisioned as one of 5 types:

128MB	200MHz	\$0.00000231		
256MB	400MHz	\$0.00000463		
512MB	800MHz	\$0.00000925		
1024MB	1.4 GHz	\$0.00001650		
2048MB	2.4 GHz	\$0.000002900		
¹ CPU allocations are an approximation. Actual allocation of CPU clock cycles may vary slightly across function invocations.				

Price/100ms

Price

mountpoint will consume memory resources provisioned for the function.

GB-Second	\$0.0000025
GHz-Second	\$0.0000100

Cloud Functions provides a perpetual free tier for compute-time resources, which includes an allocation of both GB-seconds and GHz-seconds. In addition to the 2 million invocations, the free tier provides 400,000 GB-seconds,

Free Tier

200,000 GHz-seconds of compute time and 5GB of Internet egress traffic per month. Note that even for free tier usage, we require a valid billing account. Networking

Outbound data transfer (that is, data transferred from your function out to somewhere else) is measured in GB and charged at a flat rate. Inbound data, and outbound data to other Google APIs in the same region is free. Where the

Google API you are using is a global (i.e. there is no region), it is considered to be the same region. Type Price/GB

Outbound Data (Egress)	\$0.12
Outbound Data per month	5GB Free
Inbound Data (Ingress)	Free
Outbound Data to Google APIs in the same region	Free
Local Disk	

Cloud Functions provides access to a local disk mount point (/tmp) which is known as a "tmpfs" volume in which data written to the volume is stored in memory. There is no specific fee associated with this however writing data to the /tmp

Pricing Examples

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).

Simple Background Function

This section provides some pricing examples.

Calculations

10,000,000

Invocations

Compute Time

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

10,000,000 x 0.0375 = 375,000 GB-seconds per month 10,000,000 x 0.0600 = 600,000 GHz-seconds per month

Networking None

Gross Value

Metric Invocations

Invocations	10,000,000	2,000,000	8,000,000	\$0.000004	\$3.20	
GB-seconds	375,000	400,000	< 0	\$0.0000025	\$0.00	
GHz-seconds	600,000	200,000	400,000	\$0.0000100	\$4.00	
Networking	0	5	0	\$0.12	\$0.00	
Total / Month					\$7.20	
High Volume HTTP Function						

Net Value

Unit Price

Total Price

Free Tier

Calculations

Invocations

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).

50,000,000 Compute Time

 $(400/1000) \times 0.5s = 0.200 \text{ GHz-seconds per invocation}$

Metric

Invocations

 $50,000,000 \times 0.125 = 6,250,000 \text{ GB-seconds per month}$

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

 $(256/1024) \times 0.5s = 0.125 \text{ GB-seconds per invocation}$

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

Gross Value

50,000,000

GB-seconds	6,250,000	400,000	5,850,000	\$0.0000025	\$14.63
GHz-seconds	10,000,000	200,000	9,800,000	\$0.0000100	\$98.00
Networking	238.42	5	233.42	\$0.12	\$28.01
Total / Month					\$159.84
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Zuletzt aktualisiert am	Mai 16, 2017				

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Net Value

48,000,000

Unit Price

\$0.0000004

Total Price

\$19.20

Free Tier

2,000,000

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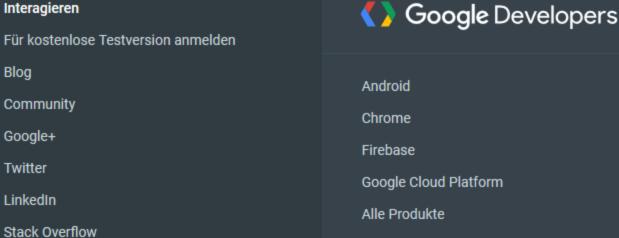
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More generally, the cost one second of compute time is as follows: