

## Costos en Google App Engine

Estimación de costos:

	Observaciones		
Hosting	1 Aplicacion		\$9.00
Procesador y Memoria	Instancias 14 F2	F2/hour/mes	\$125.44
Blobstore (Almacenamiento temporal)	5Gb gratis	0.13 / G / mes	\$0.00
Cloud storage almacenamiento	1 TB por mes		\$0.09
Cloud storage network	En 1TB por mes	0.12 / G	\$12.00
Cloud storage operaciones clase A	insert/update/list	0.01 / 1000 / mes	\$100.00
Cloud storage operaciones clase B	Accesos/objeto/bucket/	0.01 / 10000 / mes	\$10.00
Cloud SQL	D2 1 GB RAM / 2 GB storage	\$2.93 / Dia	\$90.83
		Total	\$347.36
		Q	Q2,778.84

## Ventajas de utilizar google app engine

- Integración completa con los apis de google
- Se delega la responsabilidad de mantenimiento de servidores
- Escalable de manera facil y sin necesidad de hacer modificaciones a las aplicaciones.
- Utilización de seguridad y autenticación de google.
- Integrado con youtube para la carga de archivos de los usuarios.
- Posibilidad de pasar de pocos a usuarios a una gran cantidad de usuarios.

## Anexos

### Costos google app engine

Referencia: <https://developers.google.com/appengine/docs/billing>

Premier account: 500\$/Month

Paid account: \$9/app/month

Resource	Unit	Unit cost
Outgoing Bandwidth	Gigabytes	\$0.12
Frontend Instances (F1)	Instance hours	\$0.08
Frontend Instances (F2)	Instance hours	\$0.16
Frontend Instances (F4)	Instance hours	\$0.32
Frontend Instances (F4_1G)	Instance hours	\$0.48
Discounted Instances	Instance hours	\$0.05
Backend Instances (B1 class)	Hourly per instance	\$0.08
Backend Instances (B2 class)	Hourly per instance	\$0.16
Backend Instances (B4 class)	Hourly per instance	\$0.32
Backend Instances (B4_1G class)	Hourly per instance	\$0.48
Backend Instances (B8 class)	Hourly per instance	\$0.64
Stored Data (Blobstore)	Gigabytes per month	\$0.13
Stored Data (Datastore)	Gigabytes per month	\$0.24
Stored Data (Logs Data)	Gigabytes per month	\$0.24
Stored Data (Task Queue)	Gigabytes per month	\$0.24
Channel	Channel opened	\$0.0001 (\$0.01/100 channels)
Recipients Emailed	Email	\$0.0001
XMPP	XMPP stanzas	\$0.000001 (\$0.10/100,000 stanzas)
Logs API	Gigabytes	\$0.12
SNI SSL certificates	Sets of five SNI certificate slots per month	\$9.00
SSL Virtual IPs (VIPs)	Virtual IP per month	\$39.00
PageSpeed bandwidth	Gigabytes (in addition to outgoing bandwidth charges)	\$0.39

# Cloud Storage

## Free Trial Quota

Google Cloud Storage offers a free trial quota until June 30, 2013. This quota is only applicable to your first project that uses Google Cloud Storage and gives you free usage of resources within that project, up to:

- 5 GB of storage
- 25 GB of download data (20 GB to Americas and EMEA\*; 5 GB to Asia-Pacific)
- 25 GB of upload data (20 GB to Americas and EMEA\*; 5 GB to Asia-Pacific)
- 12,000 class A operations
- 60,000 class B operations

## Pricing

If you exceed your free trial quota, your Google Cloud Storage account is billed according to the following tables:

### Storage

Monthly Usage	Standard Storage (per GB per month)	Durable Reduced Availability Storage Price (per GB per month)
First 0-1 TB	\$0.085	\$0.063
Next 9 TB	\$0.076	\$0.054
Next 90 TB	\$0.067	\$0.049
Next 400 TB	\$0.063	\$0.045
Next 4500 TB	\$0.054	\$0.042
Additional Storage	<a href="#">Contact us</a>	

### Network

Monthly Usage	Network (Egress) - Americas and EMEA* (per GB)	Network (Egress) - Asia-Pacific (per GB)	Network (Ingress)
0 - 1TB	\$0.12	\$0.21	
Next 9TB	\$0.11	\$0.18	Free
Next 90TB	\$0.08	\$0.15	
Additional Data Transfer	<a href="#">Contact us</a>		

### Operations

Class A operations (per 1,000 requests/month)	Class B operations (per 10,000 requests/month)	Free operations
\$0.01	\$0.01	Free

# Cloud SQL

## Introductory Trial

Starting on Nov 8 2012, for a limited time, you can try out the Google Cloud SQL service without charge, under the terms of an introductory trial.

The introductory trial gives you:

- One Google Cloud SQL instance with a small amount of RAM
- 0.5 GB of database storage
- Sufficient network and IOPS to run your Cloud SQL instance with reasonable performance

Google will not charge you for the Cloud SQL resources you consume during the introductory trial.

Google will offer the introductory trial for six months, starting on November 8, 2012 and ending on June 1, 2013. At the conclusion of this period, developers who have signed up for the introductory trial will be given the choice of converting to one of the billing plans, or discontinuing their use of Cloud SQL.

The intention of the introductory trial is to allow developers to test Google Cloud SQL. At any time during the introductory trial, you may convert to a billing plan.

## Packages Billing Plan

The following packages are available:

Tier	RAM	Included Storage	Included I/O per Day	Charge per Day
D1	0.5GB	1GB	850K	\$1.46
D2	1GB	2GB	1.7M	\$2.93
D4	2GB	5GB	4M	\$5.86
D8	4GB	10GB	8M	\$11.71
D16	8GB	10GB	16M	\$23.42
D32	16GB	10GB	32M	\$46.84

Each database instance is allocated the RAM shown above, along with an appropriate amount of CPU. Storage is measured as the filespace used by the MySQL database. Bills are issued monthly, based on the number of days during which the database exists (measured at US Pacific Time). Storage for backups created using the scheduled backup service is not part of the package limits and is not charged. The number of I/O requests to storage made by your database instance depends on your queries, workload and data set. Cloud SQL will cache data in memory to serve your queries efficiently and to minimize the number of I/O requests. Use of storage or I/O over the included quota is charged at the Per Use rate (\$0.24 per GB per month for storage, \$0.10 per Million of I/Os). The maximum storage for any instance is currently 100GB.

## Per Use Billing Plan

The following resources are available, charged per use:

Resource	Charge
D1 Database Instance (0.5GB RAM)	\$0.10 per hour
D2 Database Instance (1GB RAM)	\$0.19 per hour
D4 Database Instance (2GB RAM)	\$0.38 per hour
D8 Database Instance (4GB RAM)	\$0.77 per hour
D16 Database Instance (8GB RAM)	\$1.54 per hour
D32 Database Instance (16GB RAM)	\$3.08 per hour
1GB Storage	\$0.24 per month
I/O	\$0.10 per Million

- Use of database instances is charged for periods of continuous use, rounded up to the nearest hour (see the [FAQ](#) for more details)
- Storage is charged per GB in hourly units (whether the database is active or not) measured as the largest number of bytes during that one hour period, rounded up to the nearest GB. Storage for backups created using the scheduled backup service is not charged.
- The maximum storage for any instance is currently 100GB.
- The number of I/O requests to storage made by your database instance depends on your queries, workload and data set. Cloud SQL will cache data in memory to serve your queries efficiently and to minimize the number of I/O. I/Os are rounded up to the nearest million. Queries that do not access storage are not charged for I/Os.

## Network Use

Resource	Charge
External Outbound Traffic	\$0.12 per GB

Network use is charged for both packages and per use billing plans. Only outbound external traffic is charged, such as to the [command line](#), an [external reporting tool](#), or the SQL prompt in the Google APIs Console. Network usage between Google App Engine applications and Cloud SQL is not charged.

## Referencias:

Cloud SQL:

<https://developers.google.com/cloud-sql/docs/billing>

Cloud Storage:

<https://developers.google.com/storage/docs/pricingandterms?hl=es>

App Engine

<https://developers.google.com/appengine/docs/billing>

Cloud pricing:

<https://cloud.google.com/pricing/>