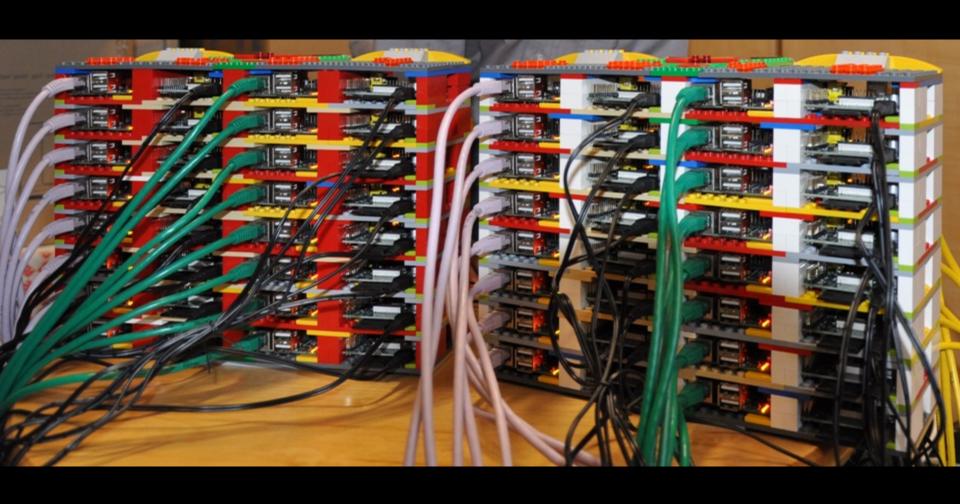
Google Cloud Platform

Dan Bye





Enter Google





Storage

Big Data





Cloud Endpoints



Translate API



BigQuery



App Engine



Compute Engine



Cloud Datastore

....



Cloud SQL



Prediction API

- Support for Python, Java, PHP, and Go

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- Database admin
- Server configuration
- Sharding
- Load Balancing
- Traffic Splitting
- Multitenancy support
- Multiple storage options
- Elasticity

- Eclipse
- IntelliJ
- Maven
- Git
- Jenkins
- PyCharm
- Etc.

Service	Free quota per app per day	Pricing if you exceed your free quota
Instances	28 instance hours	\$0.05 / instance / hour
Cloud Datastore (NoSQL Database)	50k read/write/small 1 GB storage	\$0.06 / 100k read or write ops Small operations free* \$0.18 / GB / month
Outgoing Network Traffic	1 GB	\$0.12 / GB
Incoming Network Traffic	1 GB	Free
Cloud Storage	5 GB	\$0.026 / GB / month
Memcache	Free Usage of Shared Pool No free quota for Dedicated Pool	Free Usage of Shared Pool Dedicated Pool: \$0.06 / GB / hour
Search	1000 basic operations 0.01 GB indexing documents 0.25 GB document storage 100 searches	\$0.50 / 10k searches \$2.00 / GB indexing documents \$0.18 / GB / month Storage
Email API	100 recipients	Contact Sales
Logs API	100 MB	\$0.12 per GB
Task Queue and Logs Storage	5 GB 1 GB	\$0.026 / GB / month
SSL Virtual IPs	No free quota	\$39 / virtual IP / month

- Virtual Machines

- Virtual Machines
 - Standard
 - High CPU
 - High Memory
 - Micro-VMs to Large Instances



- Load Balancing
- Instances use Google fiber
- Elasticity
- Data is transmitted and stored in encrypted form
- Software Packages: https://cloud.google.com/compute/

- Standard:
 - Durability
 - Availability
 - Performance

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- Durable Reduced Availability
 - Durability
 - Performance
 - Cheaper than standard

- Standard:
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- Nearline
 - Archiving
 - Online Backups
 - Disaster Recovery
- Durable Reduced Availability
 - Durability
 - Performance
 - Cheaper than standard

- MySQL Databases in the cloud

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- Management
 - Replication
 - Patching

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- NoSQL Databases
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	Free quota per day	Pricing if you exceed your free quota
Stored data	1 GB total limit	\$0.18 / GB / month
Read operations	50k	\$0.06/100k operations
Write operations	50k	\$0.06/100k operations
Small operations	50k	Free

Small datastore operations include calls to allocate datastore ids or keys-only queries. These operations are free.

BigQuery

- Used to process Big Data
 - SQL-Like Queries
 - First TB of data processed/month is free
- Short Example: https://cloud.google.com/bigquery/#demo

Google Cloud Platform Users

- Snapchat
- CocaCola
- Best Buy
- Ubisoft
- Khan Academy
- Sony Music
- SMART

- Rovio
- Scalr
- Pulse
- And More

Hosting + Compute



App Engine



Compute Engine

Storage



Cloud Storage



Cloud Datastore



Cloud SQL

Big Data



BigQuery

Services



Cloud Endpoints



Translate API



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Sources

- https://cloud.google.com/
- https://www.google.com/about/careers/lifeatgoogle/a-rare-inside-look-at-google-data-centers.html
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