

The Server Labs G-Cloud 15 Service Description

G-Cloud 15 Service Definition - Google Cloud Platform

Ref: TSL/GCLOUD15/SERVICE_DESC_GOOGLE

Issue : 1.0

Date: Jan 2026

For: **G-Cloud-15**

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1 Introduction

This document provides you with a description of each of The Server Labs' Cloud Services on Google Cloud Platform

If you wish to receive further information please contact sales@theserverlabs.com

2 Service Definition

2.1 Compute Engine

Run large-scale workloads on virtual machines hosted on Google's infrastructure. Choose a VM that fits your needs and gain the performance of Google's worldwide fiber network.

For more information on the compute engine, please go to the following link:

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



Compute Engine

Machine Type Pricing

US hosted

Europe/APAC hosted

Standard

Instance type	Virtual Cores	Memory	GCEU ¹	Lowest price ² (USD) per hour with full sustained usage	Typical price ³ (USD) per hour	Full price ⁴ (USD) per hour without sustained use
n1-standard-1	1	3.75GB	2.75	\$0.049	\$0.053	\$0.069
n1-standard-2	2	7.5GB	5.50	\$0.097	\$0.106	\$0.138
n1-standard-4	4	15GB	11	\$0.194	\$0.211	\$0.276
n1-standard-8	8	30GB	22	\$0.387	\$0.421	\$0.552
n1-standard-16	16	60GB	44	\$0.773	\$0.842	\$1.104

High Memory

Machines for tasks that require more memory relative to virtual cores.

Instance type	Virtual Cores	Memory	GCEU ¹	Lowest price ² (USD) per hour with full sustained usage	Typical price ³ (USD) per hour	Full price ⁴ (USD) per hour without sustained use
n1-highmem-2	2	13GB	5.50	\$0.114	\$0.124	\$0.162
n1-highmem-4	4	26GB	11	\$0.227	\$0.248	\$0.324
n1-highmem-8	8	52GB	22	\$0.454	\$0.495	\$0.648
n1-highmem-16	16	104GB	44	\$0.908	\$0.989	\$1.296

High CPU

Machines for tasks that require more virtual cores relative to memory.

Instance type	Virtual Cores	Memory	GCEU ¹	Lowest price ² (USD) per hour with full sustained usage	Typical price ³ (USD) per hour	Full price ⁴ (USD) per hour without sustained use
n1-highcpu-2	2	1.80GB	5.50	\$0.061	\$0.066	\$0.086
n1-highcpu-4	4	3.60GB	11	\$0.121	\$0.132	\$0.172
n1-highcpu-8	8	7.20GB	22	\$0.241	\$0.263	\$0.344
n1-highcpu-16	16	14.40GB	44	\$0.482	\$0.525	\$0.688
Shared Core Machines for tasks that don't require a lot of resources but do have to remain online for long periods of time.						
Instance type	Virtual Cores	Memory	GCEU ¹	Lowest price ² (USD) per hour with full sustained usage	Typical price ³ (USD) per hour	Full price ⁴ (USD) per hour without sustained use
f1-micro	1	0.60GB	Shared CPU	\$0.010	\$0.010	\$0.013
g1-small	1	1.70GB	1.38	\$0.025	\$0.027	\$0.0347

¹ [Google Compute Engine Units](#)

² **Lowest price (USD) per hour with full sustained usage:** This is the price per hour with full sustained-use discounts applied, when the machine type is running for 100% of the month. To get a feel for how sustained usage pricing applies in your use cases, try the [pricing calculator](#).

³ **Typical price (USD) per hour:** This is the price paid per hour under average usage as calculated over all Compute Engine users, and includes sustained use discounts.

⁴ **Full price (USD) per hour without sustained use:** This is the price per hour of the machine type when used less than 25% of the month; no sustained use discounts are applied because the instance was not running for at least 25% of the time.

Sustained Use Discounts

Once you use an instance for over 25% of a billing cycle, your price starts dropping. This discount is applied automatically, with no sign-up or up-front commitment required. If you use an instance for 100% of the billing cycle, you get a 30% net discount over our already low prices.

[More details](#) [↗](#)

Premium OS Pricing

Pricing for premium operating systems differ based on the machine type where the premium operating system image is used. For example, an f1-micro instance will be charged \$0.02 per hour for a SUSE image, while an n1-standard-8 instance will be charged \$0.11 per hour. All prices for premium operating systems are in addition to charges for using a machine type.

Pricing for premium operating systems are the same worldwide and do not differ based on zones or regions, as machine type prices do.

[More details](#) [↗](#)

Red Hat Enterprise Linux (RHEL) images	\$0.06/hour for instance types with less than 8 virtual cores \$0.13/hour for instance types with 8 virtual cores or more
SUSE images	\$0.02/hour for f1-micro and g1-small machine types \$0.11/hour for all other machine types
Windows server images	\$0.02/hour for f1-micro and g1-small machine types \$0.04 per core/hour for all other machine types

Network Pricing				
Ingress			Free	
Egress to the same Zone.			Free	
Egress to a different Cloud service within the same Region.			Free	
Egress to Google products (such as YouTube, Maps, Drive).			Free *	
Egress to a different Zone in the same Region (per GB)			\$0.01	
Egress to a different Region within the US			\$0.01 *	
Inter-continental Egress			At Internet Egress Rate	
* Promotional pricing.				
Monthly Usage	Network (Egress) Worldwide Destinations (excluding China & Australia) (per GB)	Network (Egress) China Destinations (per GB) *	Network (Egress) Australia Destinations (per GB)	Network (Ingress)
0-1 TB	\$0.12	\$0.21	\$0.19	Free
1-10 TB	\$0.11	\$0.18	\$0.18	Free
10+ TB	\$0.08	\$0.15	\$0.15	Free
* Pricing for China destinations is promotional for a period that ends on March 1, 2015. On this date, prices for China destinations will change to \$0.23 (0-1 TB), \$0.22 (1-10 TB), and \$0.20 (10+ TB).				

Load Balancing and Protocol Forwarding		
	US	Europe
Hourly service charge	\$0.025 (5 rules included) \$0.010 per additional rule	\$0.028 (5 rules included) \$0.011 per additional rule
Per GB of data processed	\$0.008	\$0.009

Persistent Disk Pricing	
Standard Persistent Disk Provisioned Space	\$0.04 GB / month
SSD Persistent Disk Provisioned Space	\$0.17 GB / month
Snapshot storage*	\$0.026 GB / month
IO operations	No additional charge
* Addition of egress fees for restore will be delayed as a promotional offer until March 1, 2015.	

Local SSD Pricing	
Local SSD Provisioned Space	\$0.218 GB / month

Image Storage	
Image storage	\$0.085 GB / month

IP Address Pricing	
Static IP address (assigned but unused)	\$0.01 / hour
Static IP address (assigned and in use)	Free
Ephemeral IP address (attached to instance)	Free

2.2 App Engine

Run your applications on a fully-managed Platform-as-a-Service (PaaS) using built-in services that make you more productive. Just download the SDK and start building immediately. For more information on SDK, please go to the following link: <https://cloud.google.com/sdk>



Services		
All applications are free within a usage quota that is reset daily. Paid applications can use more at the prices below.		
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
Bundled Services		
Cron, Files API, Image Manipulation, Pagespeed, SNI SSL Certificates, Socket API, Task Queue API, URLFetch, Users API		

* Small datastore operations include calls to allocate datastore ids or keys-only queries

2.3 Cloud SQL

Store and manage data using a fully-managed, relational MySQL database. Google handles replication, patch management and database management to ensure availability and performance. For more information on Cloud SQL, please go to the following link: <https://cloud.google.com/sql>



Cloud SQL

Google offers two billing plans for Cloud SQL:

For developers with more traffic, we have package plans that offer a discount and help you predict your costs in advance.

For developers with lightweight applications, we offer a flexible "per use" pricing scheme. You pay only for the time you access your data. Get started with a cloud-hosted MySQL database for around \$1 per day.

Packages				
Tier	RAM	Included Storage	Included I/O (per day)	Charge (per day)
D0	0.125GB	0.5GB	200K	\$0.36
D1	0.5GB	1GB	850K	\$1.46
D2	1GB	2GB	1.7M	\$2.93
D4	2GB	5GB	4M	\$4.40
D8	4GB	10GB	8M	\$8.78
D16	8GB	10GB	16M	\$17.57
D32	16GB	10GB	32M	\$35.13
Additional storage, up to 100GB, is charged at \$0.24/GB per month.				
External network egress is charged at \$0.12/GB.				

Per Use	
Resource	Charge
D0 Database Instance (0.125GB RAM)	\$0.025/hour
D1 Database Instance (0.5GB RAM)	\$0.10/hour
D2 Database Instance (1GB RAM)	\$0.19/hour
D4 Database Instance (2GB RAM)	\$0.29/hour
D8 Database Instance (4GB RAM)	\$0.58/hour
D16 Database Instance (8GB RAM)	\$1.16/hour
D32 Database Instance (16GB RAM)	\$2.31/hour
1GB Storage	\$0.24/month
I/O	\$0.10/million
Idle IPv4 address	\$0.01/hour
External network egress	\$0.12/GB

2.4 Cloud Storage

Use a durable and highly available object storage service. With global edge-caching, your users have fast access to your app's data from any location. For more information on cloud storage, please go to the following link: <https://cloud.google.com/storage>



Cloud Storage

Storage Pricing per GB per month				
Storage Pricing (per GB per month)				
Standard Storage			Durable Reduced Availability Storage	
\$0.026			\$0.02	
Network				
Monthly Usage	Network (Egress) Worldwide Destinations (excluding China & Australia) (per GB)	Network (Egress) China Destinations (per GB) *	Network (Egress) Australia Destinations (per GB)	Network (Ingress)
0-1 TB	\$0.12	\$0.21	\$0.19	Free
1-10 TB	\$0.11	\$0.18	\$0.18	Free
10+ TB	\$0.08	\$0.15	\$0.15	Free
* Pricing for China destinations is promotional for a period that ends on March 1, 2015. On this date, prices for China destinations will change to \$0.23 (0-1 TB), \$0.22 (1-10 TB), and \$0.20 (10+ TB).				
Data transfer to other Google Cloud services in the same region is free.				
Operations				
Class A operations (per 1,000 ops)		Class B operations (per 10,000 ops)		Free operations
\$0.01		\$0.01		Free
XML API operation classes				
Operation				Class
GET Service GET Bucket (when listing objects in a bucket) PUT POST				Class A
GET Bucket (when retrieving bucket configuration) GET Object HEAD				Class B
DELETE				Free
JSON API operation classes				
Operation				Class
storage.*.insert storage.*.patch storage.*.update storage.buckets.list storage.bucketAccessControls.delete storage.objectAccessControls.delete				Class A
storage.*.get storage.bucketAccessControls.list storage.objectAccessControls.list				Class B
storage.*.delete				Free

2.5 Cloud Datastore

Use a managed, NoSQL, schemaless database for storing non-relational data. Cloud Datastore automatically scales as you need it and supports transactions as well as robust, SQL-like queries. For more information on Cloud Datastore, please go to the following link:

<https://cloud.google.com/datastore?hl=en>



Cloud Datastore

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

2.6 BigQuery

Analyze Big Data in the cloud with BigQuery. Run fast, SQL-like queries against multi-terabyte datasets in seconds. Scalable and easy to use, BigQuery gives you real-time insights about your data. For more information on BigQuery, please go to the link: <https://cloud.google.com/bigquery>



BigQuery

BigQuery uses a columnar data structure, which means that for a given query, you are only charged for data processed in each column, not the entire table. The first 100GB of data processed per month is at no charge.

On-Demand Pricing	
Resource	Pricing
Loading Data	Free
Exporting Data	Free
Storage	\$0.020 per GB / month ^{1,4}
Interactive Queries	\$5 per TB processed ^{2,3,4}
Batch Queries	\$5 per TB processed ^{2,3,4}
Streaming Inserts	Free until January 1, 2015 After January 1, 2015, \$0.01 per 100,000 rows for streaming inserts.

¹ Charges rounded up to the nearest MB; minimum 1 MB data per table

² Charges rounded up to the nearest MB; minimum 1 MB data processed per each table referenced by a query

³ The first 100 GB of data processed per month is at no charge

⁴ Charges are based on the uncompressed data size.

Reserved Capacity Pricing

For larger, more consistent workloads, reserved capacity can save as much as 70% off On-Demand Pricing. To sign up please [contact a sales representative](#).

2.7 Cloud Endpoints

Create RESTful services and make them accessible to iOS, Android and Javascript clients. Automatically generate client libraries to make wiring up the frontend easy. Built-in features include denial-of-service protection, OAuth 2.0 support and client key management.



Cloud Endpoints

Cloud Endpoints is available free of charge for applications running on App Engine and Compute Engine.

2.8 Translate API

Quickly and dynamically translate between thousands of available language pairs within your app, integrating with Google Translate.



Translate API

Important: Google Translate API v2 requires billing information for all accounts before you can start using the service. See instructions below in usage fees on how to enable billing.

Google Translate API pricing is based on usage. Translation usage is calculated in millions of characters (M), where 1 M = 10⁶ characters. For more information, see the [Pricing FAQ](#).

Important: Google Translate API v2 requires billing information for all accounts before you can start using the service. See instructions below on how to enable billing.

- **Usage fees:**
 - **Translation:**
 - \$20 per 1 M characters of text, where the charges are adjusted in proportion to the number of characters actually provided. For example, if you were to translate 500K characters, you would be billed \$10.
 - **Language Detection:**
 - \$20 per 1 M characters of text, where the charges are adjusted in proportion to the number of characters actually provided.
- **Usage limits:**
 - Google Translate API has a default limit of 2 M chars/day. You can increase this limit up to 50 M chars/day in the Google Developers Console by following the instructions below.
 - If you need to translate more than 50 M chars/day, please [contact us](#)

To enable billing for your project, do the following:

1. Go to the [Google Developers Console](#).
2. Select a project.
3. In the sidebar on the left, select **Billing**.
4. At the top of the page, select **Enable Billing**.
5. Fill in the form.

To view or change usage limits for your project, or to request an increase to your total limit, do the following:

1. Go to the [Google Developers Console](#).
2. Select a project.
3. In the sidebar on the left, select **APIs & auth**, then select an API.
4. On the API's info page, select the **Quota** link near the API name.

2.9 Prediction API

Use Google's machine learning algorithms to analyze data and predict future outcomes using a familiar RESTful interface.



Prediction API

Free Quota

Usage is free for the first six months, up to the following limits per [Google Developers Console](#) project. This free quota applies even when billing is enabled, until the six-month expiration time.

- **Usage limits:**
 - **Predictions:** 100 predictions/day
 - **Hosted model predictions:** Hosted models have a usage limit of 100 predictions/day/user across all models.
 - **Training:** 5MB trained/day
 - **Streaming updates:** 100 streaming updates/day
- **Lifetime cap:** 20,000 predictions.
- **Expiration:** Free quota expires six months after activating Google Prediction for your project in the [Google Developers Console](#).

Note that some Prediction API usage scenarios depend on [Google Cloud Storage](#), which has different pricing terms from the Prediction API.

Paid Usage

Paid usage comes with a 99.9% availability service level agreement. Read more about the SLA [here](#).

Monitor your usage on the [Google Developers Console](#). Any usage beyond the free usage quota will fail if you have not enabled billing for the project. Once you exceed the free quota, the following prices and limits apply:

- **Base fee:** \$10 monthly fee per [Google Developers Console](#) project.
- **Usage fees:**
 - **Prediction:**
 - **10,000** predictions/month: \$0.00
 - **10,001+** predictions/month: \$0.50/1,000 predictions beyond the initial 10,000
 - **Training:**
 - **\$0.002/MB bulk trained** (maximum size of each dataset: 2.5GB)
 - **0-10,000 streaming updates:** \$0.00
 - **10,001+ streaming updates:** \$0.05/1,000 updates beyond the initial 10,000.
- **Usage limits:**
 - If you intend to make more than 40,000 predictions/day, [please contact us](#).
 - Google Prediction has a default limit of 2,000,000 predictions/day per project for your own models.
 - Hosted models have a usage limit of 100 predictions/day/user across all demonstration models. Developers can set higher paid usage limits for models they create. Please see each model's documentation for more details.

Important: These charges do *not* include any Google Cloud Storage fees that might be required to hold training data. Please see the [pricing sheet for Google Cloud Storage](#) to determine any additional costs that you might incur.

3 The Server Labs

The Server Labs (TSL) is a 100% privately founded IT Consultancy and Software Development Company with headquarters in the UK and offices in Germany and Spain and now established as a leader in Cloud Computing services. The Server Labs focuses on the design and implementation of IT architectures and advanced software engineering projects working with the most advanced technologies to provide its clients cost-effective, scalable and high performance solutions. The Server Labs has been using the Cloud since 2006 and working with its customers in the cloud since 2008 and was one of the first European partner's of Amazon Web Services.

The Server Labs has clients in many different industry areas such as space, finance and telecoms. We collaborate with our clients to obtain success, committed to innovation, enjoying what we do every day and growing with every challenge.

The Company's mission is:

- To provide **expert services** in the field of IT architectures and advanced software engineering
- To **improve radically the software development process**
- To help organisations achieve better business results through the correct use of latest technologies
- To have **100% satisfied clients**
- To create high quality **innovative software solutions**, providing added value to our customers

The specific value, experience and expertise that The Server Labs can provide for e-LfH are:

1. **Technical excellence** and capability to act as lead on architectural decisions and as technology expert in software and system subjects.
2. **Architecture experience at software and system level.**
3. **Proven experience in HPC and Big Data Projects**
4. **Real cloud computing experience, at IaaS, PaaS and SaaS levels, and for both compute power as well as storage solutions in different clouds.**
5. **Quality control based on ISO9001 for all software systems developed**
6. **Technological excellence**, especially in the main technologies required for the project, including HPC, web services and security technologies.

All our architects and engineers are experts with an average of 10 years' experience in the planning, design and development of complex software systems. Our multinational team has been a pioneer in Java technologies, Object Oriented Analysis and Design and distributed architectures, and has the required hands-on experience in many state of the art technologies. In the last few years, The Server Labs has positioned itself as a leader in Cloud computing services, helping organisations move to the Cloud at all levels. For more information on current projects being undertaken by The Server Labs in Cloud computing, please see Appendix B.

Our experience working across several industries has given us a good understanding of the different requirements so we are able to provide the solution that best suits each particular business and reuse the lessons learnt in the other industry sectors when applicable. Our clients span organisations such as Banks (BNP Paribas, BBVA, Caja Madrid) , the European Space Agency (ESA), Madrid Underground (Metro de Madrid), ICCAT, Amadeus, TRAGSA, TIBCO (a leader in Messaging and Service Bus architecture systems), O2 and Telefonica, Vodafone, ORACLE, several, Sun Microsystems, TUI and Marsans travel, etc. Most recently, we have been architecting, optimising and implementing the migration into the AWS cloud of the Genomics England IT infrastructure, this work followed on from our involvement in the optimising of the HPC infrastructure for the 100k genome project.