

Why Google Cloud Platform

- Google isn't just a search engine. It's also one of the leading SaaS companies, with Google Docs, Drive, Gmail, and the entire Google Workspace.
- Launched in 2008, Google Cloud was the second major player to enter the market. Its extensive list of products shows why it's still one of the market leaders.
- GCP is not only storage space. It's also a suite of nearly 200 services that can be utilized to create an infrastructure tailored to individual business needs.
- The solution is flexible in terms of both scalability and instant adaptation to system requirements. It also guarantees effective cost control, based on actual usage. All this based on Google's secure and reliable technology.

Google Cloud Platform Components

Several components and services are an important feature of Google Cloud Platform.

1. Compute:

The compute service enables compute and hosting the cloud. The various services under this are as follows:

- App Engine
- Compute Engine
- Kubernetes Engine
- Cloud Functions
- Cloud Run

2. Storage and Database:

The storage and database service enables the application to store media files, backups, or other file-like objects. The services include:

- Cloud Storage

- Cloud SQL
- Cloud Bigtable
- Cloud Spanner
- Cloud Datastore

3. Networking:

The networking service enables us to load-balance traffic across resources, create DNS records, and much more. Some of the services include:

- VPC
- Cloud Load Balancing
- Cloud Armor
- Cloud CDN
- Cloud Interconnect
- Cloud DNS
- Network Service Tiers

4. Big Data:

The big data service enables us to process and query big data in the cloud. A few of the included services are the following:

- BigQuery
- Cloud Dataproc
- Cloud Datalab
- Cloud Looker Studio
- Cloud Data Fusion
- Cloud Dataprep
- Cloud Data Catalog

5. Developer Tools:

The developer tools service includes tools that enable software and application development.

- Artifact Registry (beta)
- Cloud SDK
- Cloud Code

- CloudBuild
- Cloud Scheduler
- Cloud Tasks

6. Identity and Security:

This service deals with security and authentication:

- Cloud Identity
- Cloud IAM
- Cloud Data Loss Prevention API
- Security Key Enforcement

7. Internet of Things(IoT):

You can leverage GCP to create IoT environments with the following tools:

- Cloud IoT Core
- Edge TPU
- Cloud IoT

8. Cloud AI:

Cloud AI comprises services related to machine learning, which also encompasses:

- Cloud AutoML
- Cloud Natural Language
- Cloud Speech-to-Text
- Cloud Text-to-Speech
- Cloud Translation API
- Cloud Vision API
- Cloud Video Intelligence

9. Management Tools:

This domain includes services related to management and monitoring. The services under this are as follows:

- Cloud Deployment Manager

- Cloud Console
- Cloud Shell
- Cloud APIs

10. API Platform:

The few services under this are as follows:

- Maps Platform
- Developer Portal
- API Analytics
- Apigee Sense
- Cloud Endpoints

Why Choose GCP

- **Pricing Models:**
 - Google Cloud comes out on top with more customer-friendly pricing models and discount models.
 - Per-second billing
- **Growth rate:**
 - GCP wins the growth rate category with a nearly 100 percent growth rate.
- An own GCP network
- GCP security
- Availability and Scalability
- Integration with external cloud-based environments
- Eco-friendly technology
- Free services
- Advanced BigData analytics and Serverless Technology
- Automated implementation
- Real-time migration

So, all things considered, it is better to say that it is not about selecting the best cloud providers, but rather about selecting the best-suited cloud provider based on your needs.