

Google Cloud Platform



Pamela Márquez Customer Engineer

¿Que es Cómputo Cloud?

Entrega de recursos de cómputo on-demand a través de una red (Internet).



Cómputo Tradicional

- La información se almacena en el disco duro de un ordenador o en un servidor.
- Si el equipo falla, existe el riesgo de perder la información almacenada.
- Si se requiere un nuevo software hay que instalarlo.
- Se debe pagar por el software que se instale.
- Si se trata de un ordenador, solo se puede acceder a la información desde ese equipo.

Cloud

La información siempre está segura

VS

- Se puede trabajar desde cualquier lugar y en cualquier momento,
- La nube es fácil de utilizar y muy intuitiva, tiene una configuración rápida y sencilla.
- Se reduce o desaparece la inversión en software o sistemas operativos.
- El cómputo de nube ofrece recursos flexibles, virtualmente infinitos y se pueden consumir on demand en el cual pagas lo que usas.



Cómputo Tradicional

Cloud



VS





OnPrem Tradicional

laaS Infrastructure as a Service

PaaS **Platform** as a Service

SaaS Software as a Service

Apps

Data

Runtime

Middleware

OS

Manage

You

Virtualization

Servers

Storage

Networking

Apps You Manage

Data

Middleware

OS

Virtualization

Servers

Vendor Manages

Storage

Networking

manage You

Vendor Manages

Apps

Data

Runtime

Middleware

OS

Virtualization

Servers

Storage

Networking

Apps

Data

Runtime

Middleware

Vendor Manages

OS

Virtualization

Servers

Storage

Networking



Cloud Native

 Aplicaciones/Soluciones diseñadas para explotar las funcionalidades, dinamismo y flexibilidad de la nube

Cloud Ready

 Aplicaciones o soluciones compatibles con la nube, no explotan todos los beneficios de vivir en una nube

Cloud Based

 Aplicaciones o soluciones que se ejecutan en una infraestructura de nube

Cloud Enabled

 Aplicaciones o soluciones que fueron modificados para correr en la nube pero no fueron diseñados para correr en ella



Nube Pública

Servicios que un proveedor pone disponibles a través de internet. Los recursos de la nube son propiedad de otro proveedor.



Nube Híbrida

Nube Privada

Es una extensión del centro de datos tradicional de una empresa que se optimiza para ofrecer funcionalidad de almacenamiento y de procesamiento para una gran variedad de funciones. Es un recurso no compartido.



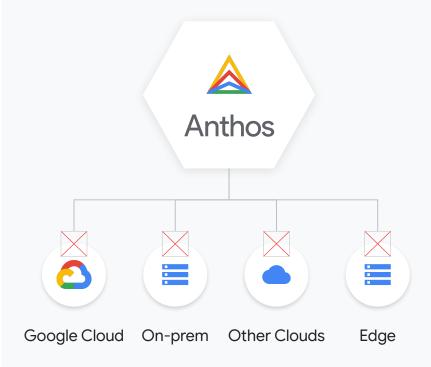


Multi Cloud



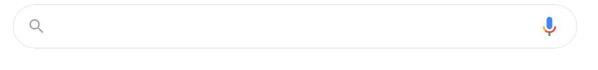


Estrategia Multi Cloud





Google



Google Search

I'm Feeling Lucky



9 productos cloud cloud products Cada uno con un billon de usuarios





















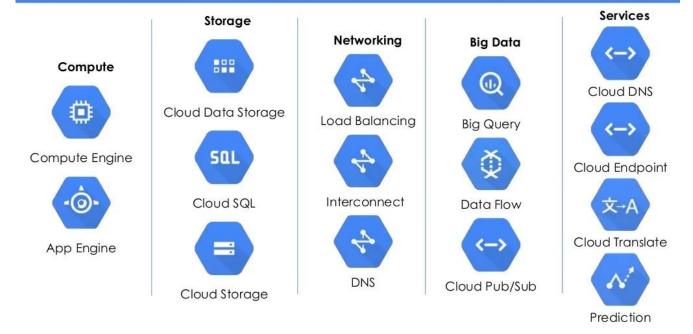


https://console.cloud.google.com/

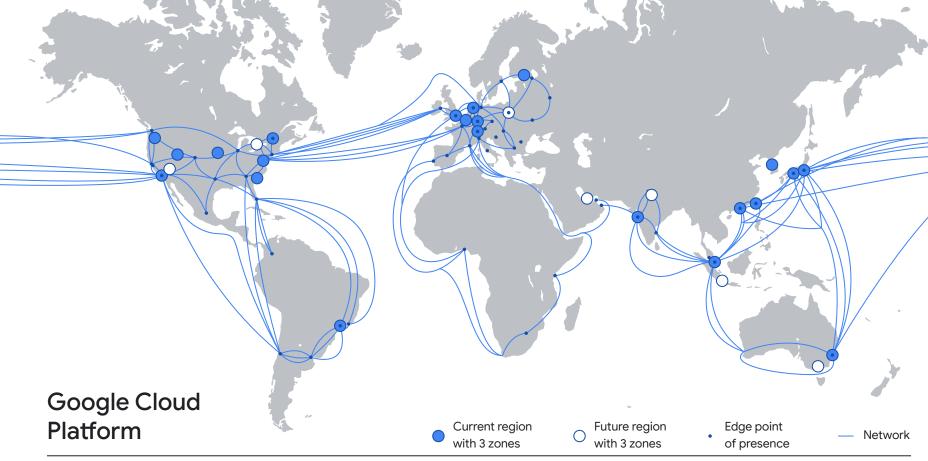




Google Cloud Platform









Regions, PoPs, and network

Layered Defense in Depth





Machine learning is already improving many of our products



SearchSearch ranking
Speech recognition



Android Keyboard & speech input



Play
App recommendations
Game developer experience



Gmail Smart reply Spam classification



ChromeSearch by image



Drive Intelligence in Apps



YouTubeVideo recommendations
Better thumbnails



Assistant Smart connections across products



MapsParsing local search



Cardboard Smart stitching



TranslateText, graphic and speech translation



Photos Photos search



Google Cloud

DEVELOPER'S CHEAT SHEET

Every Google Cloud Service in 4 words or less

http://4words.dev



Google Cloud

DEVELOPER'S CHEAT SHEET

v2019.7.17
Created by the Google Developer Relations Team Feedback? y @gregsramblings

App Engine Cloud Functions Cloud Run Compute Engine Managed app platform Event-driven serverless functions Serverless for containerized applications VMs, GPUs, TPUs, Disks Enterprise hybrid/multi-cloud platform

Anthos Coldline

Cloud Storage Object storage and serving Archival rare acress storage Persistent Disk VM-attached disks Managed NES serves

Cloud Datastore Horizontally scalable document DB Cloud Firestore Strongly-consistent serverless document DB Cloud Memorystore Cloud Spanner Horizontally scalable relational DB Cloud SQL Managed MySQL and PostgreSQL

BigQuery ML Cloud Composer Cloud Data Fusion Cloud Dataflov Cloud Datapres Cloud Datases Cloud Pub/Sub Data Catalog Data Studio

BigQuery model training/serving Managed workflow orchestration service Graphically manage data pipelines Stream/batch data processing Managed Spark and Hadoor Global real-time messaning Metadata management service Collaborative data exploration/dashboardin Managed genomics platform

Al Platform Data Labeling Preconfigured VMs for deen learning

Al Platform Deep Learning VMs Al Platform Notebooks Al Platform Training

Parallel and distributed training

Manageri Jugeteri ah notehogi instance

Al Platform Predictions Autoscaled model serving AutoML Natural Language Custom text models Custom structured data models Custom domain-specific translatio AutoMi, Video Intelligence Custom video appotation models Custom image models Cloud Al Building Blocks Hosted Al component repositor Cloud Natural Language API Cloud Speech-To-Text API Convert audio to text Cloud Talant Solutions API Joh search with MI Cloud Text-To-Speech API Convert text to audio Language detection and translatio Image recognition and classificatio Dialogflow Enterprise Edition Create conversational interfaces

Document Understanding Al Analyze, classify, search document Visual search for products

Vision Product Search

Virtual Private Cloud

Cloud HSM

Cloud IAM

AutoML Tables

AutoMI Vision

AutoMi. Translation

Cloud Translation API

Cloud Vision API

Cloud TRU

Peer through a carrier Dedicated Intercons Dedicated private network connection Connect on prem network to VPC Cloud Armor DDoS protection and WAF Cloud CDN Content delivery network Cloud DNS Programmable DNS serving Cloud Load Balancing Cloud NAT Network address translation service IProc VPN Virtual private network connection Network Service Tiers Price vs performance tiering Network Telemetry Network telemetry service Google Cloud Service Mesh

NTERNET OF THINGS (IoT

Device management and ingest data

Access Transparency

Audit cloud provider access Binary Authorization Cloud Audit Logs Audit trails for GCP Cloud Data Loss Pre-Classify and reduct sensitive data Hardware security module service Resource access control Cloud Identity Manage users, devices & apps Cloud Identity-Aware Proxy Identity-based app sign in Cloud Resource Manager Cloud project metadata management Cloud Sequity Scanner Cloud Security Command Ce Asset inventory, discovery, search, management End-user attribute-based access control Security Key Enforcement Two-step key verification Shielded VMs Hardened VMs Titan Security Key Two-factor authentication (2FA) device VPC Service Control VPC constrain data

Cloud After ARIs for cloud services Cloud Billing Billing and cost management tool Cloud Billing API Programmatically manage GCP billing Cloud Console Cloud Deployment Manage Templated infrastructure deploymen Cloud Mobile App iOS/Android GCP manager app

Cloud Shell Browser-based terminal/CL Stackdriver Logging Centralized looging Stackdriver Monitoring Infrastructure and application monitoring Stackdriver Profiler CPU and bean profiling Stackdriver Transparent SLI Monitor GCP services App performance insights

Cloud SDK Cloud Build Continuous integration/delivery platforn Cloud Code Cloud Source Repositoria Hosted private git repos Cloud Scheduler Managed crop job service Cloud Tooks Cloud Tools for Intelli.) IntelliJ GCP tool Cloud Tools for Visual Studio Visual Studio GCP tools Cloud Tools for Eclipse Eclinso GCP tools Container Registry Private container registry/storage Gradle App Engine Plugin Gradle App Engine plugin

Maven App Engine Plugin

Google Transfer Appliance Rentable data transport box Cloud Storage Transfer Service BigQuery Data Transfer Service Bulk import analytics data Migrate from Amazon Redshift Migrate from Redshift to BigQuery Migrate from Teradata Migrate from Teradata to BigQuer Migrate for Anthos Migrate VMs to GKE containers Compute Engine migration tools

Software defined networking

API Analytics Apigee API Platform Apigee Hybrid Cloud Endpoints Cloud Healthcare API GCP Marketolace

Develop, secure, monitor APIs API protection from attacks Manage hybrid/multi-cloud API environments Cloud API gateway Healthcare system GCP interoperability API managment portal Partner & open source marketolace

Get directions between locations

Dorker location without CRS

Web embedded maps

Dynamic web maps

Maps SDK for iOS

Unity SDK for games

Web static mans

Convert address to/from coordinates

API metrics

Maven App Engine plugin

Directions API Distance Matrix API Maps Embed API Maos JavaScript AF Maps SDK for iOS Maps Static API Mans Unity SDK Mans IIRI s Places API

URL scheme for mans Metadata about places (REST) Places Library, Maps JS API Places SDK for Android Places SDK for Android Places SDK for iOS Planes SDK for iOS Roads API Metadata about roads Street View Static API Static street view images nteractive street view images Time Zone API Convert coordinates to tim

Apps Scrip Eritor Add-ons Gmail Add-ons Docs API Drive API

Small API Drive Picker Cloud Search Admin SDK G Suite Marketolac Other G Suite APIs/SDKs

Contextual apps in Gmail Conversational bots in chat Create and manage calendar Provision and manage classrooms Create and edit documents Read and write files Enhance Gmail Create and edit presentation Drive file selection widget Unified search for enterprise Manage G Suite resources Interactive email using schema.org Storefront for integrated applications Contacts, Google+, Tasks, Vault...

Extend and automate everything

Extend Docs Sheets Sides

NL Kit for Firebase

Cloud Firestore Document store and sync Cloud Functions for Firebase Cloud Storage for Firebase Object storage and serving Crashlytics Crash reporting and analytic Firebase A/B Testing Create A/B test experiments Firebase App Indexing App/Google search integration Firebase Cloud Messaging Firehase Dynamic Links Firebase Hosting Firebase In-App Messaging Firebase Remote Config.

Send device notifications Link to ann content Web hosting with CDN/SSL Send in-app contextual message Predict user targeting Remotely configure installed appr Mobile testing device farm

GCP FOUNDATIONAL OPEN SOURCE PROJECTS Apache Beam Batch/streaming data processing Secure container runtime Knative Serverless framework for Kubernetes Kubeflow ML Tool kit for Kubernetes Cloud native observability framework TensorFlow ML framework

Google Cloud Blog Apigee Blog Firebase Blog Google Cloud Certification Google Cloud System Status Google Cloud Training Google Developers Blog Google Maps Platform Blog Google Open Source Blog Google Security Blog Kagole Home Page Kubernetes Blog Regions and Network Mag

medium.com/appale-cloud apigee.com/about/blog firebase.googleblog.com gsuite-developers.googleblog.com status cloud google.com cloud google.com/training developers appoleblog commapsplatform.googleblog.com opensource.googleblog.com security.googleblog.com www.kaggle.com kubernetes.io/blog cloud.google.com/about/locations

cloud,google.com



¡Gracias!



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"I'm trying to between the control of the control o