Google Transfer Appliance Storage Transfer Service Migrate for Anthos **Migrate for Compute Engine** Migrate from Amazon Redshift Migrate from Teradata **Cloud Foundation Toolkit** KF

Rentable data transport box Online/on-premises data transfer Migrate VMs to GKE containers **Compute Engine migration tools** Migrate from Redshift to BigQuery Migrate from Teradata to BigQuery Infrastructure as Code templates **Cloud Foundry to Kubernetes**

GOOGLE MAPS PLATFORM

Directions API **Distance Matrix API** Geocoding API Geolocation API Maps Embed API Maps JavaScript API Maps SDK for Android Maps SDK for iOS Maps Static API Maps SDK for Unity Maps URLs Places API Places Library, Maps JS API Places SDK for Android Places SDK for iOS Roads API Street View Static API Street View Service Time 7one API

Get directions between locations Multi-origin/destination travel times Convert address to/from coordinates Derive location without GPS Display iframe embedded maps Dynamic web maps Maps for Android apps Maps for iOS apps Display static map images Unity SDK for games URL scheme for maps Rest-based Places features Places features for web Places features for Android Places feature for iOS Convert coordinates to roads Static street view images Street view for JavaScript Convert coordinates to timezone

Manage Google Workspace resources

Extend and automate everything

Provision and manage classrooms

Create and manage calendars

Unified search for enterprise

Create and edit documents

Drive file selection widget

Read and write files

Enhance Gmail

Retrieve Google Drive activity

Interactive email using schema.org

Storefront for integrated applications

Extend Google Workspace apps

Conversational bots in chat

Read and write spreadsheets

Create and edit presentations

Manage your organization's eDiscovery

Event-driven serverless applications

Search, read & update Tasks

Document store and sync

Object storage and serving

Crash reporting and analytics

Create A/B test experiments

Trusted tester early access

Drop-in authentication

Manage user's Contacts

Dynamic interactive email

WORKSPACE PLATFORM

Admin SDK AMP for Email Apps Script Calendar API Classroom API **Cloud Search** Docs API Drive Activity API Drive API Drive Picker Email Markup Google Workspace Add-ons Google Workspace Marketplace Gmail API **Google Chats API** People API Sheets API Slides API Task API Vault API

Cloud Firestore Cloud Functions for Firebase Cloud Storage for Firebase Crashlvtics Firebase A/B Testing Firebase App Distribution Firebase Authentication

Firebase Cloud Messaging Firebase Dynamic Links Firebase Extensions Firebase Hosting Firebase In-App Messaging Firebase Performance Monitoring **Firebase Predictions** Firebase Realtime Database Firebase Remote Config Firebase Test Lab **Google Analytics for Firebase** ML Kit for Firebase

ADDITIONAL RESOURCES

Google Cloud Home Page Google Cloud Blog Google Cloud Platform Podcast Kubernetes Podcast from Google **Google Cloud Reader** Google Cloud Open Source GCP Medium Publication Apiaee Bloa Firebase Blog Google Workspace Developers Blog Google Workspace GitHub **Google Workspace Twitter Google Cloud Certifications Google Cloud System Status** Google Cloud Training **Google Developers Blog** Google Maps Platform Blog Google Open Source Blog **Google Security Blog** Kaggle Home Page Kubernetes Blog Regions and Network Map DORA - Software & Delivery Research **Cloud Security Podcast GCP** Sketchnote Google Cloud Solutions Library Google Workspace Solutions Gallery **Google Cloud Support Hub GCP** Pricing **GCP** Pricing Calculator **Qwiklabs Home Page** Codelabs Home Page Reddit - www.reddit.com/ Googlecloud AppEngine **BigQuery** Dataflow Firebase **Google Apps Script** Big Data/Data Analytics Comparisons Compute Product Comparisons **Database Product Comparisons Networking Product Comparisons**

Storage Product Comparisons

ML APIs for mobile cloud.google.com cloud.google.com/blog gcppodcast.com kubernetespodcast.com podcasts.google.com opensource.google/projects/list/cloud medium.com/google-cloud apigee.com/about/blog firebase.googleblog.com gsuite-developers.googleblog.com github.com/gsuitedevs twitter.com/gsuitedevs cloud.google.com/certification status.cloud.google.com cloud.google.com/training developers.googleblog.com mapsplatform.googleblog.com opensource.googleblog.com security.googleblog.com www.kaggle.com kubernetes.io/blog cloud.google.com/about/locations cloud.google.com/devops cloud.withgoogle.com/cloudsecurity/podcast goo.gle/gcpsketchnote cloud.google.com/solutions developers.google.com/gsuite/solutions cloud.google.com/support-hub cloud.google.com/pricing cloud.google.com/products/calculator www.gwiklabs.com codelabs.developers.google.com /r/googlecloud /r/AppEngine /r/bigguery /r/dataflow /r/firebase /r/GoogleAppsScript cloud.google.com/products/big-data cloud.google.com/products/databases cloud.google.com/products/compute

cloud.google.com/products/networking

cloud.google.com/products/storage

Send device notifications

Pre-packaged development solutions Web hosting with CDN/SSL

Send in-app contextual messages

App/web performance monitoring

Remotely configure installed apps

Real-time data synchronization

Mobile testing device farm

Mobile app analytics

Link to app content

Predict user targeting



Google Cloud

DEVELOPER'S CHEAT SHEET

v2021.12.10 Created by the Google Developer Relations Team Maintained at https://4words.dev

Feedback? **J**@pvergadia @GoogleCloudTech

COMPUTE	
Cloud Functions	Event-driven serverless functions
App Engine	Managed app platform
Cloud Run	Serverless for containerized applications
Kubernetes Engine (GKE)	Managed Kubernetes/containers
Compute Engine	VMs, GPUs, TPUs, Disks
Bare Metal Solution	Hardware for specialized workloads
Preemptible VMs	Short-lived compute instances
Shielded VMs	Hardened VMs
Sole-tenant Nodes	Dedicated physical servers
VMware Engine	VMware on Compute Engine
STORAGE	
Cloud Filestore	Managed NFS server
Cloud Storage	Multi-class multi-region object storage
Persistent Disk	Block storage for VMs
Local SSD	VM locally attached SSDs
DATABASE	
Cloud Bigtable	Petabyte-scale, low-latency, non-relational
Cloud Firestore	Serverless NoSQL document DB
Cloud Memorystore	Managed Redis and Memcached
Cloud Spanner	Horizontally scalable relational DB
Cloud SQL	Managed MySQL, PostgreSQL, SQL Server
Database Migration Service	Migrate to Cloud SQL
DB Insights	SQL Inspector
DATA ANALYTICS	
BigQuery	Data warehouse/analytics
BigQuery BI Engine	In-memory analytics engine
BigQuery ML	BigQuery model training/serving
BigQuery GIS	BigQuery geospatial functions/support
BigQuery DTS	Automated data ingestion service
Connected Sheets	Spreadsheet interface for (big)data
Cloud Composer	Managed workflow orchestration service
Data Fusion	Graphically manage data pipelines
Dataflow	Stream/batch data processing
Dataprep by Trifacta	Visual data wrangling
Dataproc	Managed Spark and Hadoop

Datastream Pub/Sub Data Catalog Data Studio Looker Public Datasets

Change data capture/replication service Global real-time messaging Metadata management service Collaborative data exploration/dashboarding Enterprise BI and Analytics Hosted data in BigQuery/GCS

HYBRID AND MULTI-CLOUD

Anthos Anthos Clusters Anthos Config Management Anthos Service Mesh **Cloud Run for Anthos GCP** Marketplace for Anthos Migrate for Anthos **Operations Traffic Director** Apigee API Management

Enterprise hybrid/multi-cloud platform Hybrid/on-prem Kubernetes Engine Policy and security automation Managed service mesh (Istio) Servlerless development for Anthos Pre-configured containerized apps Migrate VMs to Kubernetes Engine Monitoring, logging, troubleshooting Service mesh traffic management API management, development, security

Vertex AI AutoMI Vertex AI Data Labeling Deep Learning VM Images (DLVM) Vertex Al Workbench Vertex AI Deep Learning Containers Vertex Al Matching Engine Vertex Al Pipelines Vertex AI Predictions Vertex AI Training Vertex AI Edge Manager Vertex Explainable AI Vertex AI Feature Store Vertex ML Metadata Vertex Al Model Monitoring Vertex AI Tensorboard Vertex Al Vizier Cloud Speech-To-Text API **Cloud Talent Solutions API** Cloud Text-To-Speech API Cloud TPU **Cloud Translation API** Cloud Video Intelligence API Cloud Vision API Contact Center AI Dialogflow Document AI Recommendations AI Vision Product Search

Managed platform for ML Custom low-code models AI Platform Data labeling by humans Preconfigured VMs for deep learning Jupyter-based environment for Data Science Preconfigured containers for deep learning Vector similarity searches Hosted ML workflows Autoscaled model serving Distributed AI training Deploy monitor edge inferences Understand ML model predictions Managed ML feature repository Artifact, lineage, and execution tracking Monitor models for skew/drift Managed TensorBoard for ML-experiment Visualization Black-box hyperparameter tuning Convert audio to text Job search with ML Convert text to audio Hardware acceleration for ML Language detection and translation Scene-level video annotation Image recognition and classification Al in your contact center Create conversational interfaces Analyze, classify, search documents Create custom recommendations

Visual search for products

Peer through a carrier

DDoS protection and WAF

Content delivery network

Programmable DNS serving

Dedicated private network connection

Multi-region load distribution/balancing

Network address translation service

Connect on-prem network to VPC

Peer with GCP

NETWORKING

Carrier Peering Direct Peering Dedicated Interconnect Partner Interconnect Cloud Armor Cloud CDN Cloud DNS Cloud Load Balancing Cloud NAT

Network Service Tiers Network Telemetry **Traffic Director Google Cloud Service Mesh** Virtual Private Cloud **VPC Service Controls Network Intelligence Center**

Cloud Router

Cloud VPN (HA)

IDENTITY AND SECURITY

Access Transparency Assured Workloads **Binary Authorization Certificate Authority Service** Cloud Asset Inventory Cloud Audit Logs Cloud DLP Cloud HSM Cloud EKM Cloud IAM **Cloud Identity** Cloud Identity-Aware Proxy Cloud KMS **Cloud Resource Manager** Security Command Center **Cloud Security Scanner Confidential Computing Context-aware Access Event Threat Detection** Managed Service for Microsoft Active Directory Secret Manager Security Key Enforcement Shielded VMs **Titan Security Key VPC Service Controls** Chronicle VirusTotal Risk Manager reCPATCHA Enterprise BeyondCorp Enterprise Access Context Manager Web Security Scanner

OPERATIONS & MONITORING

Cloud Debugger Error Reporting Cloud Logging **Cloud Monitoring Cloud Profiler Cloud Trace**

Cloud Build Cloud Deploy Artifact Registry **Cloud Source Repositories Container Registry**

VPC/on-prem network route exchange (BGP) VPN (Virtual private network connection) Price vs performance tiering Network telemetry service Service mesh traffic management Service-aware network management Software defined networking Security perimeters for API-based services Network monitoring and topology

Audit cloud provider access Workload compliance controls Kubernetes deploy-time security Managed private CAs All assets, one place Audit trails for GCP Classify and redact sensitive data Hardware security module service External keys you control Resource access control Manage users, devices & apps Identity-based app access Hosted key management service Cloud project metadata management Security management & data risk platform App engine security scanner Encrypt data in-use End-user attribute-based access control Scans for suspicious activity Managed Microsoft Active Directory Store and manage secrets Two-step key verification Hardened VMs Two-factor authentication (2FA) device

VPC data constraints Find threats from security telemetry Research/hunt for Malware Evaluate organization's security posture Protection against bot/spam/abuse Zero trust secure access Fine-grained, attribute based access-control Identifies web-app security vulnerabilities

Live production debugging App error reporting Centralized logging Infrastructure and application monitoring CPU and heap profiling App latency insights

Continuous integration/delivery platform Deployment pipeline for GKE Universal package manager Hosted private git repos Private container registry/storage

Frankrus	Front driver Cloud Day or size	
Eventarc	Event-driven Cloud Run services	
Cloud Scheduler	Managed cron job service	
Cloud Tasks	Asynchronous task execution	
Cloud Workflows	HTTP services orchestration	
Pub/Sub	Global real-time messaging	
API PLATFORM AND ECOSYSTEMS		
API Analytics	API metrics	
API Monetization	Monetize APIs	
Apigee API Platform	Develop, secure, monitor APIs	
API Gateway	Fully managed API Gateway	
Apigee Hybrid	Manage hybrid/multi-cloud API environments	
Apigee Sense	API protection from attacks	
Cloud Endpoints	Cloud API gateway	
Developer Portal	API management portal	
Marketplace	Partner & open source marketplace	
AppSheet	No-code App creation	
INTERNET OF THINGS (IOT)		
Cloud IoT Core	Manage devices, ingest data	
GAMING	munuge devices, ingest data	
	Ovekestrate Arenes elusters	
Google Cloud Game Servers	Orchestrate Agones clusters	
HEALTHCARE		
Cloud Healthcare API	Healthcare system GCP interoperability	
Apigee Healthcare APIx	Healthcare system GCP interoperability	
Healthcare Natural Language Al	Real-time insights from media-text	
Cloud Life Sciences	Manage, process, transform biomedical-data	
RETAIL		
Vision Product Search	Visual search for products	
Recommendations Al	Create custom recommendations	
Visual Inspection Al	Train/deploy models to detect defects	
MANAGEMENT TOOLS		
VM Manager Manage OS VM Fleets		
Cloud APIs	APIs for cloud services	
Cloud Aris Cloud Billing API		
2	Programmatically manage GCP billing	
Cloud Billing	Billing and cost management tools	
Cloud Console	Web-based management console	
Cloud Deployment Manager	Templated infrastructure deployment	
Cloud Mobile App	iOS/Android GCP manager app	
Private Catalog	Internal Solutions Catalog	
DEVELOPER TOOLS		
Cloud Code for IntelliJ	IntelliJ GCP tools	
Cloud Code for VS Code	VS Code GCP tools	
Cloud Code		
	Cloud native IDE extensions	
Cloud Tools for Eclipse	Cloud native IDE extensions Eclipse GCP tools	
Cloud Tools for Eclipse Cloud Tools for Visual Studio		
	Eclipse GCP tools	
Cloud Tools for Visual Studio	Eclipse GCP tools Visual Studio GCP tools	
Cloud Tools for Visual Studio Gradle App Engine Plugin	Eclipse GCP tools Visual Studio GCP tools Gradle App Engine plugin	

MIGRATION TO GOOGLE CLOUD

BigQuery Data Transfer Service Cloud Data Transfer

APPLICATION INTEGRATION

Cloud Shell

Bulk import analytics data Data migration tools/CLI

Browser-based terminal/CLI