

API PLATFORM AND ECOSYSTEMS

API Analytics:	API metrics
API Monetization:	Monetize APIs
Apigee API Platform:	Develop, secure, monitor APIs
Apigee Sense:	API protection from attacks
Apigee Hybrid:	Manage hybrid/multi-cloud API environments
Cloud Endpoints:	Cloud API gateway
Cloud Healthcare API:	Healthcare system GCP interoperability
Developer Portal:	API management portal
GCP Marketplace:	Partner & open source marketplace

GOOGLE MAPS PLATFORM

Directions API:	Get directions between locations
Distance Matrix API:	Calculate travel times
Geocoding API:	Convert address to/from coordinates
Geolocation API:	Derive location without GPS
Maps Embed API:	Web embedded maps
Maps JavaScript API:	Dynamic web maps
Maps SDK for Android:	Maps SDK for Android
Maps SDK for iOS:	Maps SDK for iOS
Maps Static API:	Web static maps
Maps Unity SDK:	Unity SDK for games
Maps URLs:	URL scheme for maps
Places API:	Metadata about places (REST)
Places Library, Maps JS API:	Metadata about places (JavaScript)
Places SDK for Android:	Places SDK for Android
Places SDK for iOS:	Places SDK for iOS
Roads API:	Metadata about roads
Street View Static API:	Static street view images
Street View Service:	Interactive street view images
Time Zone API:	Convert coordinates to timezone

G SUITE PLATFORM

App Maker:	Assistive app building
Apps Script:	Extend and automate everything
Editor Add-ons:	Extend Docs, Sheets, Slides
Gmail Add-ons:	Contextual apps in Gmail
Hangouts Chat Bots:	Conversational bots in chat
Calendar API:	Create and manage calendars
Classroom API:	Provision and manage classrooms
Docs API:	Create and edit documents
Drive API:	Read and write files
Gmail API:	Enhance Gmail
Sheets API:	Read and write spreadsheets
Slides API:	Create and edit presentations
Drive Picker:	Drive file selection widget
Cloud Search:	Unified search for enterprise
Admin SDK:	Manage G Suite resources
Email Markup:	Interactive email using schema.org
G Suite Marketplace:	Storefront for integrated applications
Other G Suite APIs/SDKs:	Contacts, Google+, Tasks, Vault...

MOBILE (FIREBASE)

Cloud Firestore:	Document store and sync
Cloud Functions for Firebase:	Event-driven serverless applications
Cloud Storage for Firebase:	Object storage and serving
Crashlytics:	Crash reporting and analytics
Firebase A/B Testing:	Create A/B test experiments
Firebase App Indexing:	App / Google search integration
Firebase Authentication:	Drop-in authentication
Firebase Cloud Messaging:	Send device notifications
Firebase Dynamic Links:	Link to app content
Firebase Hosting:	Web hosting with CDN/SSL
Firebase In-App Messaging:	Send in-app contextual messages
Firebase Performance Monitoring:	App performance monitoring
Firebase Predictions:	Predict user targeting
Firebase Realtime Database:	Real-time data synchronization
Firebase Remote Config:	Remotely configure installed apps
Firebase Test Lab:	Mobile testing device farm
Google Analytics for Firebase:	Mobile app analytics
ML Kit for Firebase:	ML APIs for mobile

GCP FOUNDATIONAL OPEN SOURCE PROJECTS

Apache Beam:	Batch/streaming data processing
gRPC:	RPC framework
gVisor:	Secure container runtime
Istio:	Connect and secure services
Knative:	Serverless framework for Kubernetes
Kubeflow:	ML toolkit for Kubernetes
Kubernetes:	Management of containerized applications
OpenCensus:	Cloud native observability framework
TensorFlow:	ML framework

ADDITIONAL RESOURCES

Google Cloud Home Page:	https://cloud.google.com
Google Cloud Blog:	https://cloud.google.com/blog
GCP Medium Publication:	https://medium.com/google-cloud
Apigee Blog:	https://apigee.com/about/blog
Firebase Blog:	https://firebase.googleblog.com
G Suite Developers Blog:	https://gsuite-developers.googleblog.com
Google Cloud Certifications:	https://cloud.google.com/certification
Google Cloud System Status:	https://status.cloud.google.com
Google Cloud Training:	https://cloud.google.com/training
Google Developers Blog:	https://developers.googleblog.com
Google Maps Platform Blog:	https://mapsplatform.googleblog.com
Google Open Source Blog:	https://opensource.googleblog.com
Google Security Blog:	https://security.googleblog.com
Kaggle Home Page:	https://www.kaggle.com
Kubernetes Blog:	https://kubernetes.io/blog
Regions and Network Map:	https://cloud.google.com/about/locations



Google Cloud

DEVELOPER'S CHEAT SHEET

v2019.7.17

Created by the Google Developer Relations Team
Maintained at <https://github.com/gregsramblings/google-cloud-4-words>

Feedback? [@gregsramblings](https://twitter.com/gregsramblings)

COMPUTE

App Engine:	Managed app platform
Cloud Functions:	Event-driven serverless functions
Cloud Run:	Serverless for containerized applications
Compute Engine:	VMs, GPUs, TPUs, Disks
Kubernetes Engine (GKE):	Managed Kubernetes/containers
GKE On-Prem:	Run GKE clusters anywhere
Anthos:	Enterprise hybrid/multi-cloud platform

STORAGE

Cloud Storage:	Object storage and serving
Nearline:	Archival occasional access storage
Coldline:	Archival rare access storage
Persistent Disk:	VM-attached disks
Cloud Filestore:	Managed NFS server

DATABASES

Cloud Bigtable:	Petabyte-scale, low-latency, non-relational
Cloud Datastore:	Horizontally scalable document DB
Cloud Firestore:	Strongly-consistent serverless document DB
Cloud Memorystore:	Managed Redis
Cloud Spanner:	Horizontally scalable relational DB
Cloud SQL:	Managed MySQL and PostgreSQL

DATA AND ANALYTICS

BigQuery:	Data warehouse/analytics
BigQuery BI Engine:	In-memory analytics engine
BigQuery ML:	BigQuery model training/serving

DATA AND ANALYTICS (CONT.)

Cloud Composer:	Managed workflow orchestration service
Cloud Data Fusion:	Graphically manage data pipelines
Cloud Dataflow:	Stream/batch data processing
Cloud Datalab:	Managed Jupyter notebook
Cloud Dataprep:	Visual data wrangling
Cloud Dataproc:	Managed Spark and Hadoop
Cloud Pub/Sub:	Global real-time messaging
Data Catalog:	Metadata management service
Data Studio:	Collaborative data exploration/dashboarding
Genomics:	Managed genomics platform

AI AND MACHINE LEARNING

AI Hub:	Hosted AI component sharing
I Platform:	Managed platform for ML
AI Platform Data Labeling:	Data labeling by humans
AI Platform Deep Learning VMs:	Preconfigured VMs for deep learning
AI Platform Notebooks:	Managed JupyterLab notebook instances
AI Platform Training:	Parallel and distributed training
AI Platform Predictions:	Autoscaled model serving
AutoML Natural Language:	Custom text models
AutoML Tables:	Custom structured data models
AutoML Translation:	Custom domain-specific translation
AutoML Video Intelligence:	Custom video annotation models
AutoML Vision:	Custom image models
Cloud AI Building Blocks:	Hosted AI component repository
Cloud Natural Language API:	Text parsing and analysis
Cloud Speech-To-Text API:	Convert audio to text
Cloud Talent Solutions API:	Job search with ML
Cloud Text-To-Speech API:	Convert text to audio
Cloud Translation API:	Language detection and translation
Cloud Video Intelligence API:	Scene-level video annotation
Cloud Vision API:	Image recognition and classification
Cloud TPU:	Hardware acceleration for ML
Dialogflow Enterprise Edition:	Create conversational interfaces
Document Understanding AI:	Analyze, classify, search documents
Recommendations AI:	Create custom recommendations
Vision Product Search:	Visual search for products

NETWORKING

Carrier Peering:	Peer through a carrier
Direct Peering:	Peer with GCP
Dedicated Interconnect:	Dedicated private network connection
Partner Interconnect:	Connect on-prem network to VPC

NETWORKING (CONT.)

Cloud Armor:	DDoS protection and WAF
Cloud CDN:	Content delivery network
Cloud DNS:	Programmable DNS serving
Cloud Load Balancing:	Multi-region load distribution
Cloud NAT:	Network address translation service
IPsec VPN:	Virtual private network connection
Network Service Tiers:	Price vs performance tiering
Network Telemetry:	Network telemetry service
Traffic Director:	Service mesh traffic management
Google Cloud Service Mesh:	Service-aware network management
Virtual Private Cloud:	Software defined networking

IOT

Cloud IoT Core	Device management and ingest data
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IDENTITY AND SECURITY

Access Transparency:	Audit cloud provider access
Binary Authorization:	Kubernetes deploy-time security
Cloud Audit Logs:	Audit trails for GCP
Cloud Data Loss Prevention API:	Classify and redact sensitive data
Cloud HSM:	Hardware security module service
Cloud IAM:	Resource access control
Cloud Identity:	Manage users, devices & apps
Cloud Identity-Aware Proxy:	Identity-based app sign in
Cloud Key Management Service:	Hosted key management service
Cloud Resource Manager:	Cloud project metadata management
Cloud Security Scanner:	App engine security scanner
Cloud Security Command Center:	Asset inventory, discovery, search, management
Context-aware Access:	End-user attribute-based access control
Event Threat Detection:	Scans for suspicious activity
Security Key Enforcement:	Two-step key verification
Shielded VMs:	Hardened VMs
Titan Security Key:	Two-factor authentication (2FA) device
VPC Service Controls:	VPC constrain data
Cloud Identity-Aware Proxy	Identity-based App Signin
Cloud Key Management Service	Hosted Key Management Service
Cloud Resource Manager	Cloud Project Metadata Management
Cloud Security Command Center	Asset inventory, discovery, search, management
Cloud Security Scanner	App Engine Security Scanner
Security Key Enforcement	Two-step Key Verification
Shielded VMs	Hardened VMs
Titan Security Key	Two-factor Authentication (2FA) Device

MANAGEMENT TOOLS

Cloud APIs:	APIs for cloud services
Cloud Billing:	Billing and cost management tools
Cloud Billing API:	Programmatically manage GCP billing
Cloud Console:	Web-based management console
Cloud Deployment Manager:	Templated infrastructure deployment
Cloud Mobile App:	iOS/Android GCP manager app
Cloud Shell:	Browser-based terminal/CLI
Stackdriver Debugger:	Live production debugging
Stackdriver Error Reporting:	App error reporting
Stackdriver Logging:	Centralized logging
Stackdriver Monitoring:	Infrastructure and application monitoring
Stackdriver Profiler:	CPU and heap profiling
Stackdriver Transparent SLIs:	Monitor GCP services
Stackdriver Trace:	App performance insights

DEVELOPER TOOLS

Cloud SDK:	CLI for GCP
Cloud Build:	Continuous integration/delivery platform
Cloud Code:	Kubernetes application IDE tools
Cloud Source Repositories:	Hosted private git repos
Cloud Scheduler:	Managed cron job service
Cloud Tasks:	Asynchronous task execution
Cloud Tools for IntelliJ:	IntelliJ GCP tool
Cloud Tools for PowerShell:	PowerShell GCP tools
Cloud Tools for Visual Studio:	Visual Studio GCP tools
Cloud Tools for Eclipse:	Eclipse GCP tools
Container Registry:	Private container registry/storage
Gradle App Engine Plugin:	Gradle App Engine plugin
Maven App Engine Plugin:	Maven App Engine plugin

MIGRATION TO GCP

Cloud Data Transfer:	Data migration tools/CLI
Google Transfer Appliance:	Rentable data transport box
Cloud Storage Transfer Service:	Cloud to cloud transfers
BigQuery Data Transfer Service:	Bulk import analytics data
Migrate from Amazon Redshift:	Migrate from Redshift to BigQuery
Migrate from Teradata:	Migrate from Teradata to BigQuery
Migrate for Anthos:	Migrate VMs to GKE containers
Migrate for Compute Engine:	Compute Engine migration tools
VM Migration:	VM migration tools