



# Google Cloud Product Flashcards

Study Cards for the  
Google Cloud Digital Leader Exam

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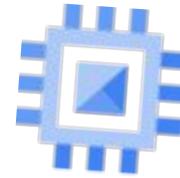
Build and deploy apps on a fully managed, highly scalable platform without having to manage the underlying infrastructure.



# App Engine

**Compute**  
Platform as a Service

Create and deploy scalable,  
high-performance VMs. There are two  
versions, standard and flexible.



# Compute Engine

Compute  
Virtual Machines

Reliably, efficiently, and securely deploy  
and scale containerized applications on  
Kubernetes.



# Google Kubernetes Engine (GKE)

**Compute/Containers**  
Containers as a Service (CaaS)

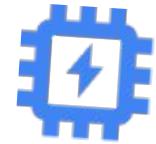
Providing hardware to run specialized  
workloads with low latency on Google  
Cloud.



# Bare Metal Solution

Compute

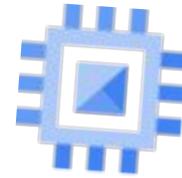
Add GPUs (graphics processing unit) to your workloads for machine learning, scientific computing, and 3D visualization.



# Cloud GPUs

Compute

Help meet compliance, licensing, and management needs by keeping your instances physically separated with dedicated hardware.



## Sole-tenant nodes

**Compute**  
Dedicated Virtual Machines

Migrate and run your VMware  
workloads natively on Google Cloud.



# Google Cloud VMware Engine

*Compute*

Migrate servers and VMs from  
on-premises or another cloud to  
Compute Engine.



# Migrate for Compute Engine

**Compute**  
Dedicated Virtual Machines

Deploy affordable, short-lived compute instances suitable for batch jobs and fault-tolerant workloads.



# Preemptible VMs

Compute

Deploy hardened virtual machines on  
Google Cloud.



# Shielded VMs

Compute

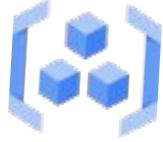
Run your code with zero server management with this scalable, pay-as-you-go functions-as-a-service (FaaS) offering.



# Cloud Functions

**Compute**  
Functions as a Service

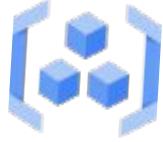
Store, manage, and secure your  
container images. Deploy only trusted  
containers on GKE.



# Container Registry

**Containers**  
Developer Tools

Considered as the next generation of container registry. A fully-managed service with support for both container images and non-container artifacts.



# Artifact Registry

**Containers**  
Developer Tools

Continuously build, test, and deploy  
containers using the Google Cloud  
infrastructure.



# Cloud Build

Containers  
CI/CD

Take advantage of containers  
preconfigured with data science  
frameworks, libraries, and tools.  
Efficiently run batch jobs using  
Kubernetes.



# Deep Learning Containers

**Containers**  
AI Container Management

Deploy pre built containerized apps.

# Kubernetes applications on Google Cloud Marketplace

**Containers**  
Pre built containers



Serverless, highly scalable, and  
cost-effective multi-cloud data  
warehouse designed for business  
agility. **Built-in ML.**



# BigQuery

**Database/Data Analytics**  
Serverless Data Warehouse

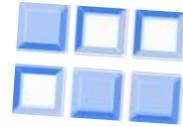
Run large analytical and operational workloads using this fully managed, scalable NoSQL database service.



# Cloud Bigtable

**Database**  
NoSQL: Key-value

A highly scalable NoSQL database for  
your web and mobile applications.



# Datastore

**Database**  
NoSQL: Indexed

Manage relational data for MySQL,  
PostgreSQL, and SQL Server for  
workloads under 30TB.



# CloudSQL

Database  
RDBM

Easily develop rich applications using a fully managed, scalable, and serverless document database for both web and mobile apps. **Key feature: Able to store and sync data in realtime.**



# Firestore

**Database**  
NoSQL Document Data Storage

Reduce latency with scalable, secure,  
and highly available in-memory service.



# Memorystore

**Database**  
In-memory Data Store

Fully managed relational database with massive scale, strong consistency worldwide, and up to 99.999% availability.



# Cloud Spanner

**Database**  
RDCMs for Global Reach.

Deploy open-source data and analytics  
(batch) processing services (Apache  
Hadoop, Apache Spark, etc.) with  
improved efficiency and security.



# Dataproc

**Data Analytics**  
Open Source Processing

Unify stream and batch data processing  
that's **serverless**, fast (real-time), and  
cost-effective.



# Dataflow

**Data Analytics**  
Serverless Data Processing

Business intelligence software and big data analytics platform that helps you explore, analyze and share real-time business analytics easily.



# Looker

**Data Analytics**  
Business Intelligence

Quickly build and manage data  
pipelines using fully managed,  
**code-free data integration with a  
graphical interface.**



# Cloud Data Fusion

**Data Analytics**  
Data Integration

Discover and understand your data  
using a fully managed and scalable data  
discovery and metadata management  
service.



# Cloud Catalog

**Data Analytics**  
Data Discovery & Metadata Management

Create, schedule, monitor, and manage  
workflows using a fully managed  
orchestration service built on Apache  
Airflow.



# Cloud Composer

**Data Analytics**  
Workflow Orchestration

Streaming analytics and data integration pipelines to ingest and distribute data. It is equally effective as a messaging- oriented middleware for service integration or as a queue to parallelize tasks.



# Pub/Sub

Data Analytics  
Messaging

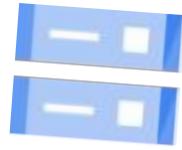
**Intelligent** data service for visually exploring, cleaning, and **preparing** structured and unstructured data for analysis, reporting, and machine learning.



# Dataprep

**Data Analytics**  
Intelligent Data Preparation

Store any amount of data and retrieve it as often as you'd like, using Google Cloud's object storage offering. Comes in four different types, Standard, Nearline, Coldline and Archive.



# Cloud Storage

**Storage**  
File Storage

Store data from VM instances running  
in Compute Engine or GKE, Google  
Cloud's state-of-the-art block storage  
offering.



# Persistent Disk

**Storage**  
Block Storage

High-performance, fully managed file  
storage.





# Filestore

**Storage**  
File Storage

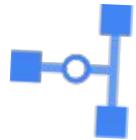
Help protect your services against DoS  
and web attacks.



# Cloud Armor

**Networking**  
Web Application Firewall

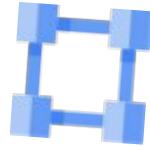
Cloud Virtual Private  
Network. Securely extend your  
on-premises network to Google's  
network through an IPsec VPN tunnel.



# Cloud VPN

**Networking**  
Virtual Private Network

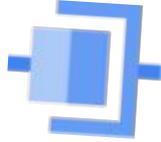
Virtual Private Cloud (VPC) is a logically isolated section of the Google Cloud Network where you can launch Google Cloud resources. You choose a range of IPs using the CIDR Range.



# Cloud VPC

**Networking**  
Virtual Private Cloud

Low latency, high availability  
connections that enable you to reliably  
transfer data between your  
on-premises and Google Cloud Virtual  
Private Cloud (VPC) networks.



# Cloud Interconnect

**Networking**  
Virtual Networks

Fully managed service that allows you  
to easily and securely connect, manage,  
and ingest data from millions of globally  
dispersed devices.



# IoT Core

**Internet of Things (IoT)**  
Device Management

Develop, secure, deploy, and monitor your APIs everywhere. Expensive, but has many advanced features including, analytics, monetization, Apigee Sense, Apigee Hybrid and Cloud Healthcare API.



# Apigee API Platform

**API Management**  
Expensive | Feature Heavy API Gateway

Develop, deploy, and manage APIs on Google Cloud. Cheap and simple, good integrations with App Engine.



# Cloud Endpoints

**API Management**  
Cheap | Feature Light API Gateway

Create a lightweight portal that  
enables developers and API teams,  
using a turnkey self-service platform.



# Developer Portal

**API Management**  
Feature of Cloud Endpoint

Cloud Monitoring provides visibility into the performance, availability, and overall health of cloud-powered applications.



# Cloud Monitoring

Operations  
Monitoring

Investigate bad code behavior in  
production for applications.



# Cloud Debugger

**Operations**  
Application Debugger

Infrastructure as Code deployment service that automates the creation and management of Google Cloud resources.



# Cloud Deployment Manager

IaC  
Infrastructure as Code

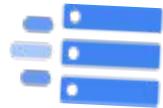
Modern application management platform used for managing hybrid architectures that span from Google Cloud to another public cloud (AWS and Azure) or on-premise data centers running VMWare.



# Anthos

**Application Management Platform**  
Infrastructure as Code

Migrating open-source relational databases like SQL. Serverless, easy, minimal downtime migrations to Cloud SQL.



# Database Migration Service (DMS)

**Migration**  
SQL Database Migration

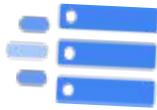
Automate scheduled data movement  
into BigQuery using a fully managed  
data import service.



# BigQuery Data Transfer Service

**Migration**  
Data Migration to Analytics Service

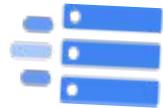
Migrate servers and VMs from  
on-premises or another cloud to  
Compute Engine.



# Migration for Compute Engine

**Migration**  
VM or Server Migration

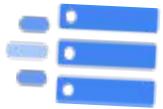
Migrate VMs from on-premises or other clouds directly into containers in GKE.



# Migrate of Anthos

**Migration**  
Container Migration

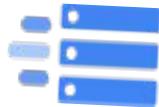
Transfer data between cloud storage services such as AWS S3 and Cloud Storage.



# Cloud Storage Transfer Service

**Migration**  
Virtual Storage Migration

Ship large volumes of data to Google Cloud using rackable storage or large physical drives.



# Transfer Appliance

**Migration**  
Physical Storage Migration

Build, deploy, and scale ML models faster, with pre-trained and custom tooling within a unified artificial intelligence platform.



# Vertex AI

**Artificial Intelligence**  
End to End AI Tool

Open-source software library for  
machine learning and artificial  
intelligence.





# Tensorflow

**Artificial Intelligence**

Deep Learning/Machine Learning Framework

Custom machine learning models with  
minimal effort and machine learning  
expertise.



# AutoML

**Artificial Intelligence**  
Pre-created and easy to use ML.

Enables your entire team to automatically build and deploy state-of-the-art machine learning models on **structured data** at massively increased speed and scale.



# AutoML Tables

**Artificial Intelligence**

Easy to use ML with structured data.

Derive insights from your images in the  
cloud or at the edge with use  
pre-trained models to detect emotion,  
understand text, and more.



# Vision AI

**Artificial Intelligence**  
ML for image prediction and detection.

Precise video analysis that recognize  
over 20,000 objects, places, and  
actions in video.



# Video AI

**Artificial Intelligence**  
ML for video analysis