Google Compute Engine

COMPUTE SERVICES

This Module

Overview of the ke GCP Compute Services

Google Compute Engine
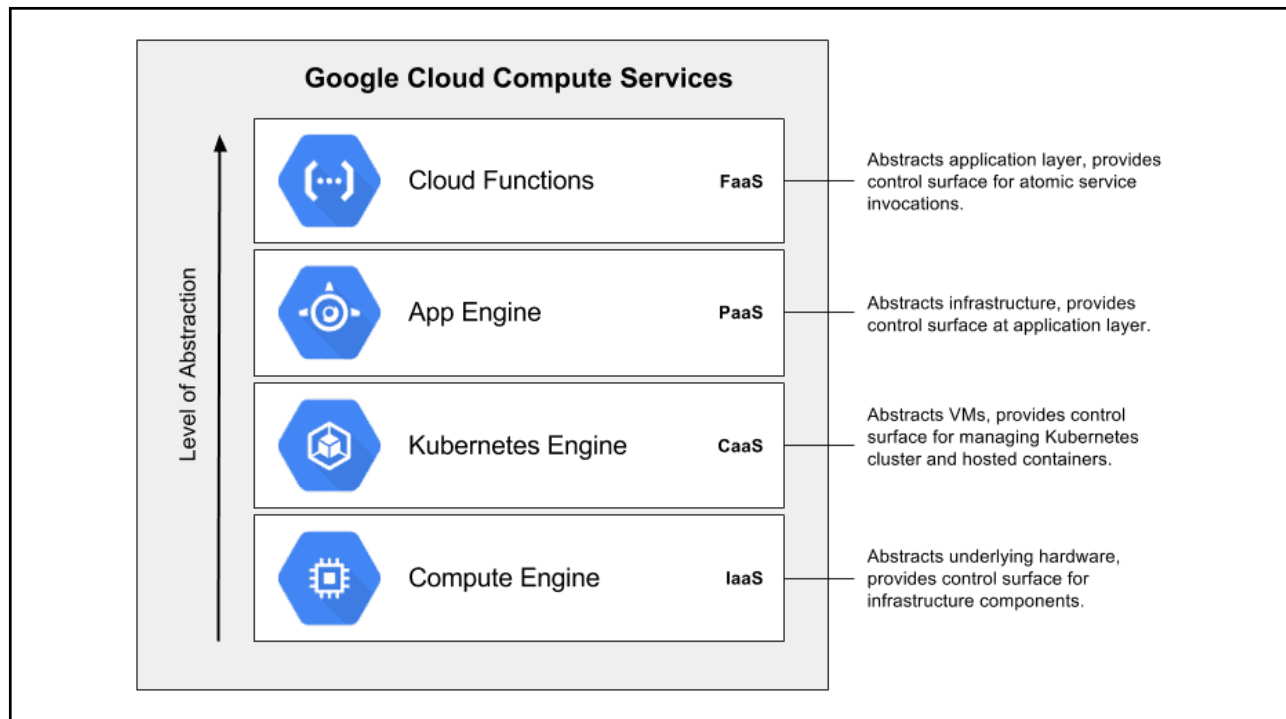
Google Kubernetes Engine

App Engine

Google Cloud Functions

The 4 key Compute Services

Google Compute Engine

Google Kubernetes Engine

Google App Engine
Google Cloud Functions

Google Cloud Compute Services

Cloud Functions	**FaaS**	Abstracts application layer, provides control surface for atomic service invocations.
App Engine	**PaaS**	Abstracts infrastructure, provides control surface at application layer.
Kubernetes Engine	**CaaS**	Abstracts VMs, provides control surface for managing Kubernetes cluster and hosted containers.
Compute Engine	**IaaS**	Abstracts underlying hardware, provides control surface for infrastructure components.

Level of Abstraction

Compute Engine

Virtual Machines
Compute Engine

- 1 - 96 processors
- .6 - 624 GB
- Disk limits
  - 65 TB Persistent
  - 3 TB SSD
  - 208 GB RAM
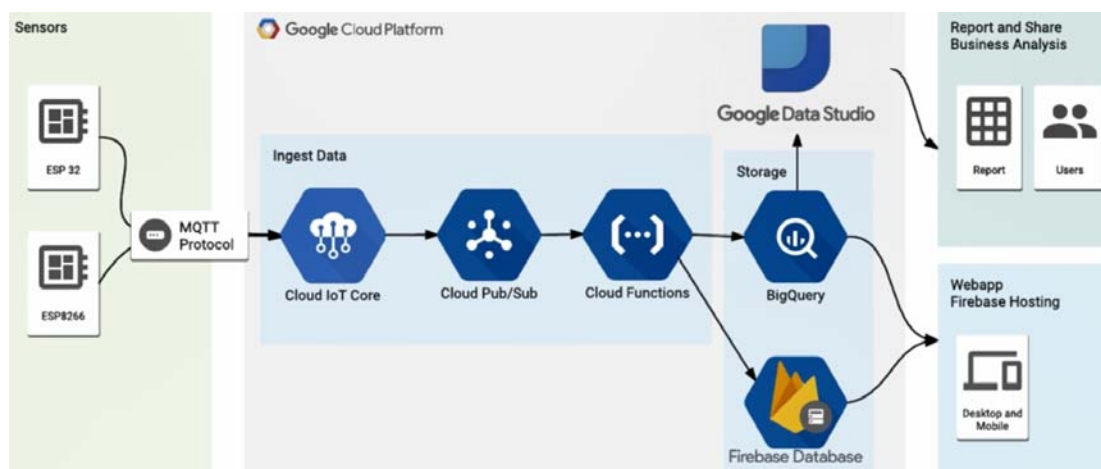- Preconfigured images
  - Can build your own
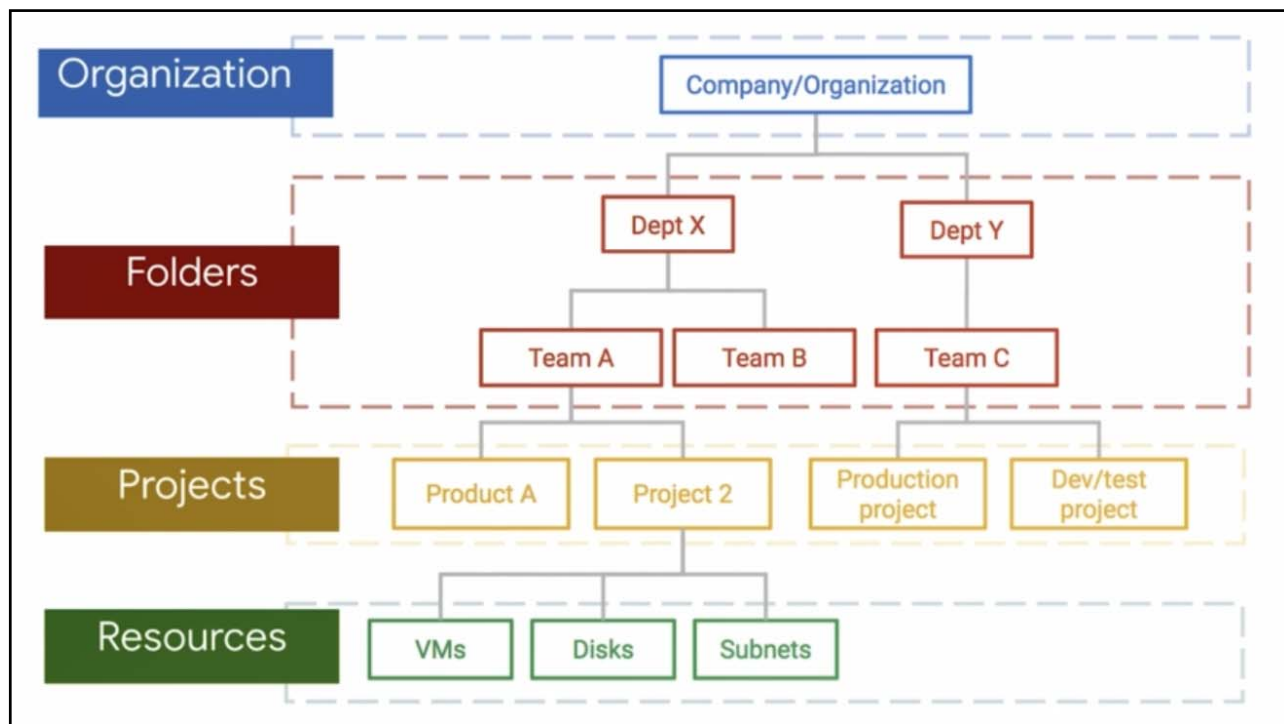

Kubernetes Engine

kubernetes

docker

Working with Google Kubernetes Engine

App Engine

Cloud Functions

Create New Project in GCP
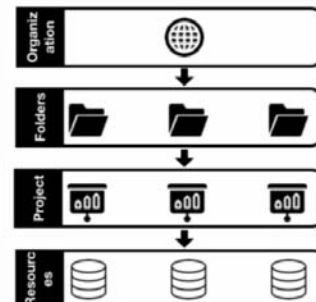
Summary

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