GCP Compute Service

GCP Computing Services

Virtual Machine , Container Engine, App Engine, Cloud Function

Google Cloud Platform

Computing Service

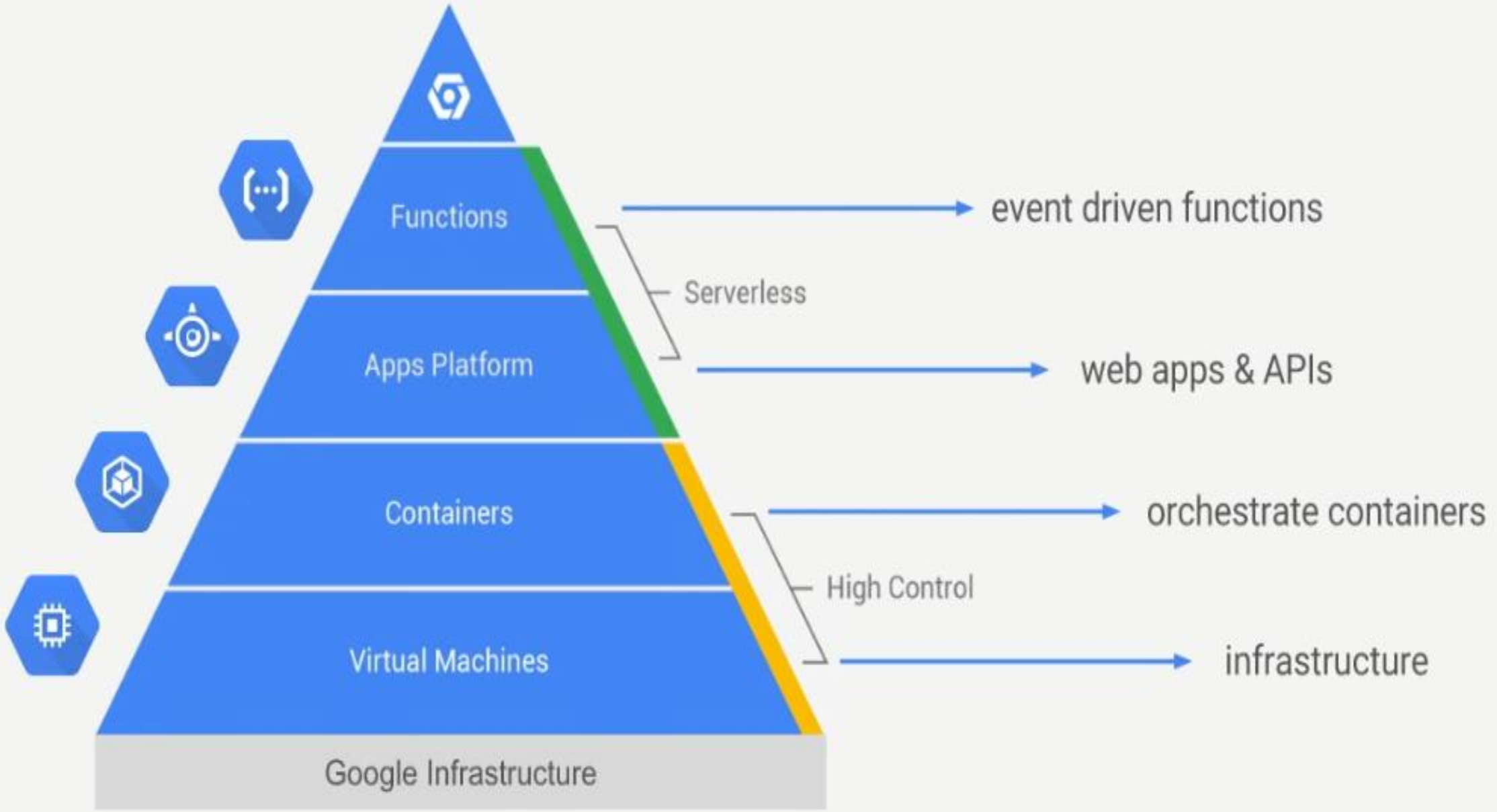
Google offers options for platform-as-a-service (PaaS), and infrastructure-as-a-service (IaaS)

Google App Engine

Google Container Engine

Google Compute Engine

Google Cloud Function


Functions
Apps Platform
Containers
Virtual Machines
Google Infrastructure
Serverless
High Control
event driven functions
web apps & APIs
orchestrate containers
infrastructure

Google Compute Engine – GCE

Scalable, High-Performance Virtual Machines

Google Compute Engine delivers virtual machines running in Google's innovative data centers and worldwide fiber network. Compute Engine's tooling and workflow support enable scaling from single instances to global, load-balanced cloud computing..

GCE : When you choose !

Req. Cant be easily containerized use existing VM images

Host Application without rewriting it

Control over infrastructure & direct access to Network/Other Compute Resources

Applications needs OS-level changes

Google Container Engine– GKE

Deploy, Manage, & Scale Containerized Applications

Google Container Engine is a powerful cluster manager and orchestration system for running your Docker containers. Container Engine schedules your containers into the cluster, keeps them healthy and manages them automatically based on requirements you define (e.g. CPU and Memory)

GKE : When you choose !

Applications should be containerized
which means you want to separate the app from the OS

Don’t have dependencies on a specific operating system

Secure, scalable way to manage containers in production

Google App Engine– GAE

A flexible, zero ops platform

Google App Engine is a platform for building **scalable web applications, mobile and IoT backends**. App Engine provides you with built-in services and APIs, such as NoSQL datastores, memcache, and a user authentication API, common to most applications.

GAE : When you choose !

Focus on writing code, and never want to touch a server, cluster, or infrastructure.

Build reliable and scalable serving app or component without doing it all yourself.

Developer velocity over infrastructure control

Minimize operational overhead.

Cloud Function

A serverless environment to build and connect cloud services

Cloud functions has made Cloud computing fully serverless models where logic can be spun up on-demand in response to events originating from anywhere.

With Cloud Functions, you can construct applications from bite-sized business logic billed to the nearest 100 milliseconds, only while your code is running.

Cloud Function : When you choose !

Event based Code-Business Logic execution

Do not want to run app when no one is using it.

Simple to implement with multiple end points

Absolutely no operations overhead

GCP Compute Service

Coming up Next..

Google Compute Engine