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DEVELOPERS & PRACTITIONERS

Where should I run my stuff? Choosing a Google Cloud compute option

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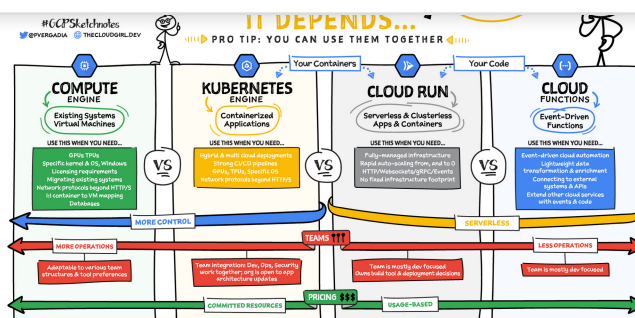Lead Developer Advocate, Google

Brian Dorsey
Developer Advocate

July 19, 2021

Where should you run your workload? It depends... Choosing the right infrastructure options to run your

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What are these services?

- **Compute Engine** - Virtual machines. You reserve a configuration of CPU, memory, disk, and GPUs, and decide what OS and additional software to run.

- **Kubernetes Engine** - Managed Kubernetes clusters. Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications. You create a cluster and configure which containers to run; Kubernetes keeps them running and manages scaling, updates and connectivity.

- **Cloud Run** - A fully managed serverless platform that runs individual containers. You give code or a container to Cloud Run, and it hosts and auto scales as needed to respond to web and other events.

- **App Engine** - A fully managed serverless platform for complete web applications. App Engine handles the networking, application scaling, and database scaling. You write a web application in one of the supported languages, deploy to App Engine, and it handles scaling, updating versions, and so on.

- **Cloud Functions** - Event-driven serverless functions. You write individual function code and Cloud Functions calls your function when events happen (for example, HTTP, Pub/Sub, and Cloud Storage changes, among others).