NO LATENCY

Cloud Functions

- Cloud Functions is **a serverless execution environment for building and connecting cloud services**
- With Cloud Functions you write simple, single-purpose functions that are attached to events emitted from your cloud infrastructure and services
- Function as a Service (FaaS) which are http based or event driven
- Serverless computing framework which is scalable and stateless

Use-Cases

- **Microservices :** Implementing pieces of logic in microservice based architecture
- **Data processing :** Applying transformation logic after a file was uploaded to GCS Bucket or logs processing
- **IOT :** Process and ingest data in real time as and when IOT devices generate them

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Cloud Functions

Feature	Cloud Functions (1st gen)	Cloud Functions (2nd gen)
Image registry	Container Registry or Artifact Registry	Artifact Registry only
Request timeout	Up to 9 minutes	• Up to 60 minutes for HTTP-triggered functions • Up to 9 minutes for event-triggered functions
Instance size	Up to 8GB RAM with 2 vCPU	Up to 16GiB RAM with 4 vCPU
Concurrency	1 concurrent request per function instance	Up to 1000 concurrent requests per function instance
Traffic splitting	Not supported	Supported
Event types	Direct support for events from 7 sources	Support for any event type supported by Eventarc, including 90+ event sources via Cloud Audit Logs
CloudEvents	Supported only in Ruby, .NET, and PHP runtimes	Supported in all language runtimes

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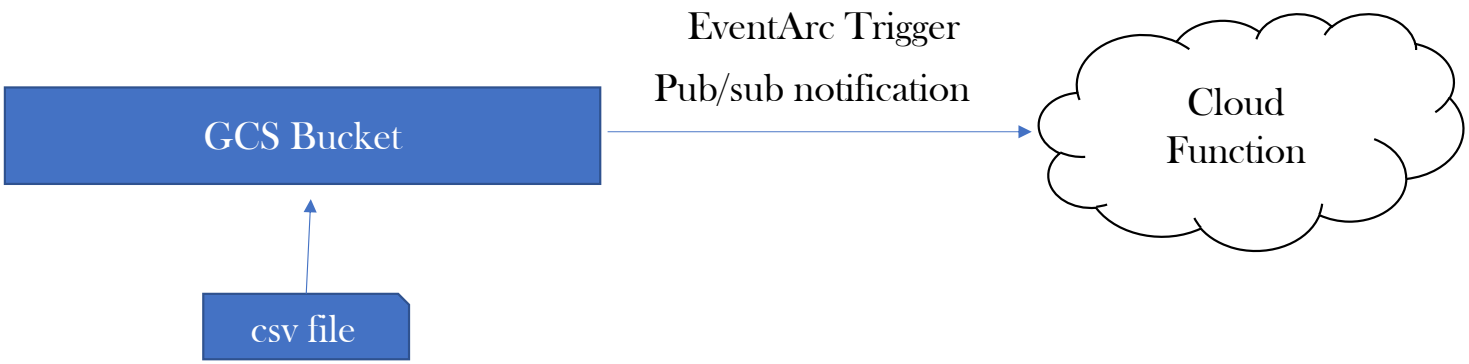
Cloud Functions



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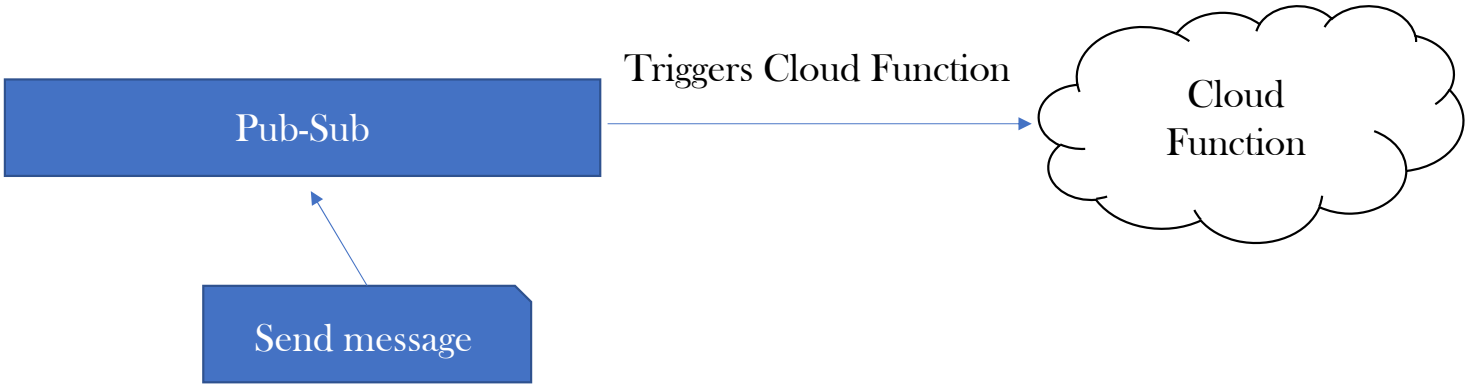
Cloud Functions



Cloud Functions – Scaling Parameters

--min-instances :

--max-instances

--memory

-- concurrency