

**GCP** 

Google Cloud

**Google Cloud** 

**Functions** 







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# Serverless Computing with Google Cloud Functions



#### Course Overview



### Udemy Tips





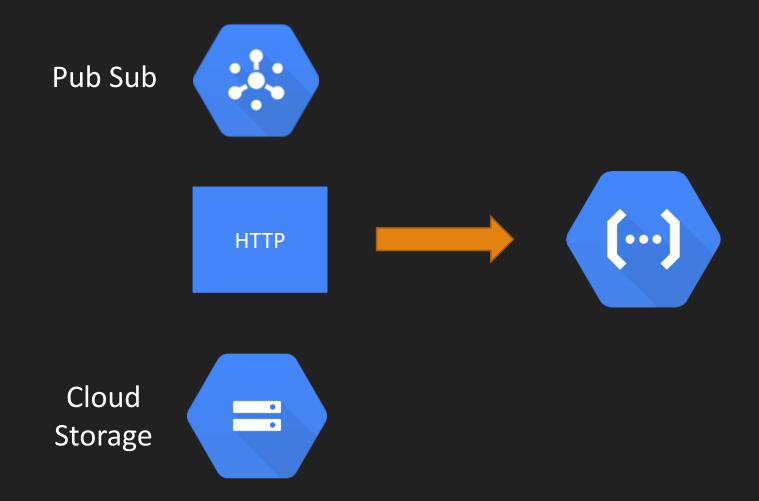


- Function as a service offering
- Single purpose microservice
- Serverless
  - No server maintenance require
  - GCP will take care Software update, New Runtime, Patch
- Like Azure Function, AWS Lambda
- Event Driven Computing
- To host web application Cloud Function is not good Option
- Function can be invoked by
  - Http based call
  - Create Object in GCS
  - Message receive in Cloud Pub/Sub Topic



- Auto scaling
- Runtime support Java, Python, node, Go
- Pricing Model Pay as you go
  - First 2 million is free
  - > after that, \$0.40 per million request
- Pricing depend on memory & compute also
- Each Function execution is independent
- Function execution has timeout
  - Default is 1 min, max 540 Sec (9 Minutes)







## Google Cloud Free Trial Account



#### Create GCP Project



# Deploy first GCF to Google Cloud



http

Webhook







Send Message





Trigger



```
/student
/name
/age PubSub

Firestore
```



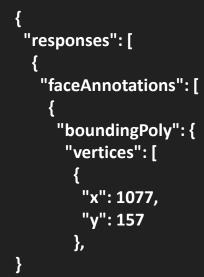












Cloud Storage Create Object

Detect Face Coordinates

**Cloud Storage** 







Cloud PubSub









Real-time Firebase database Create



BigQuery Bigtable Spanner Cloud SQL



#### THANK YOU

