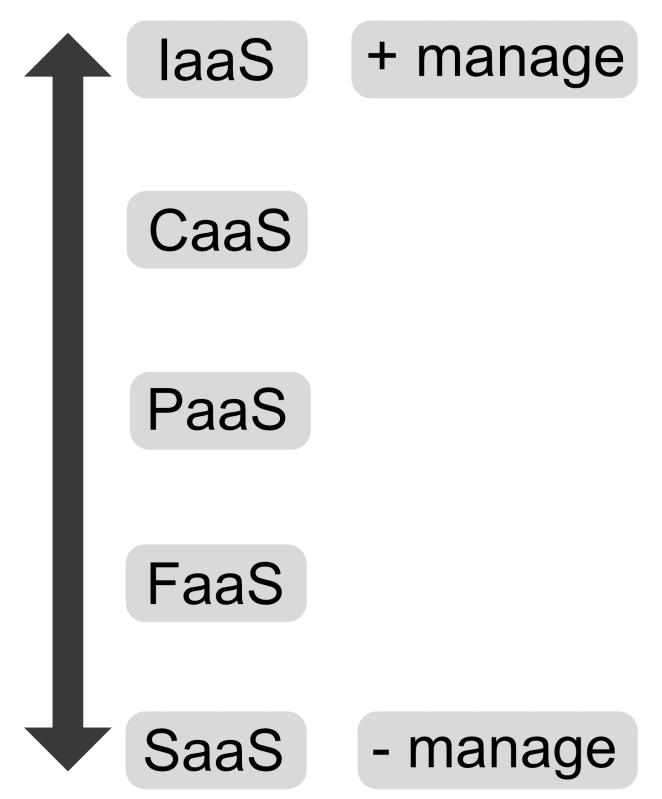
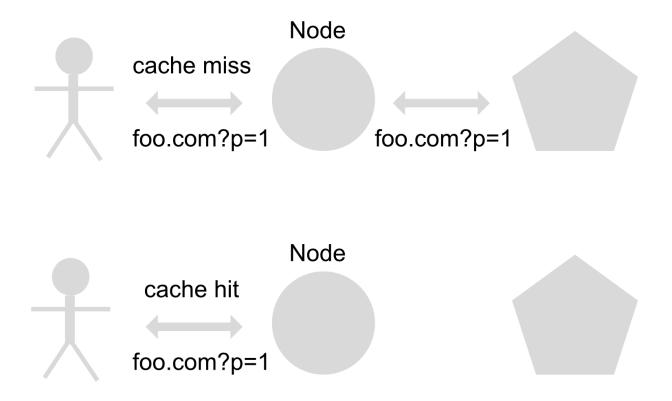
Chapter 1: Google Cloud Platform Developer Fundamentals

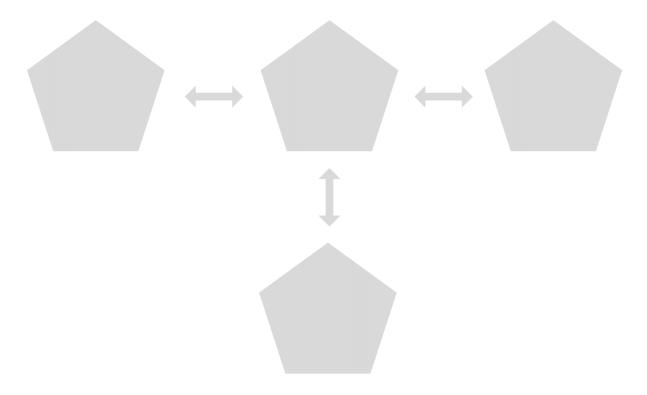


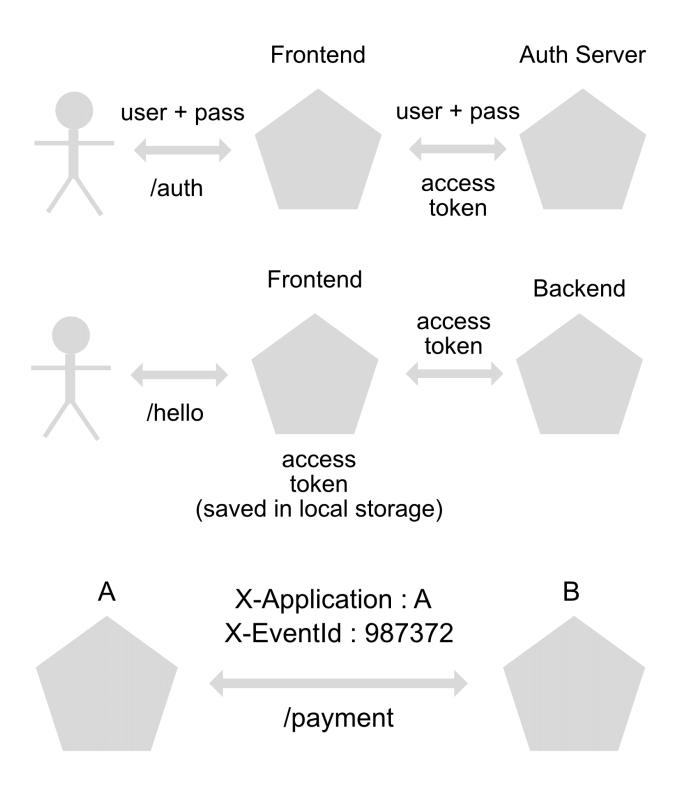


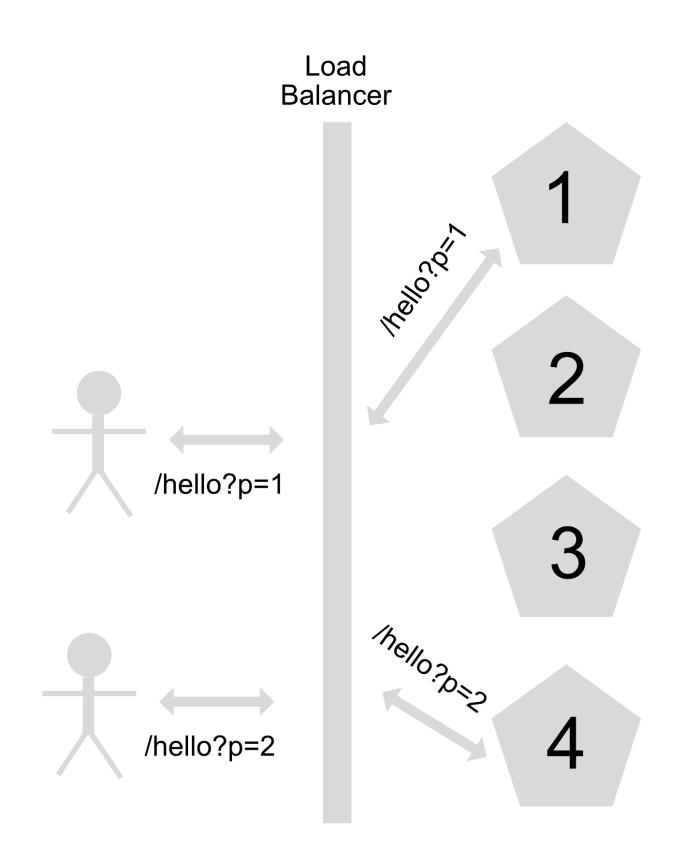
monolith pattern

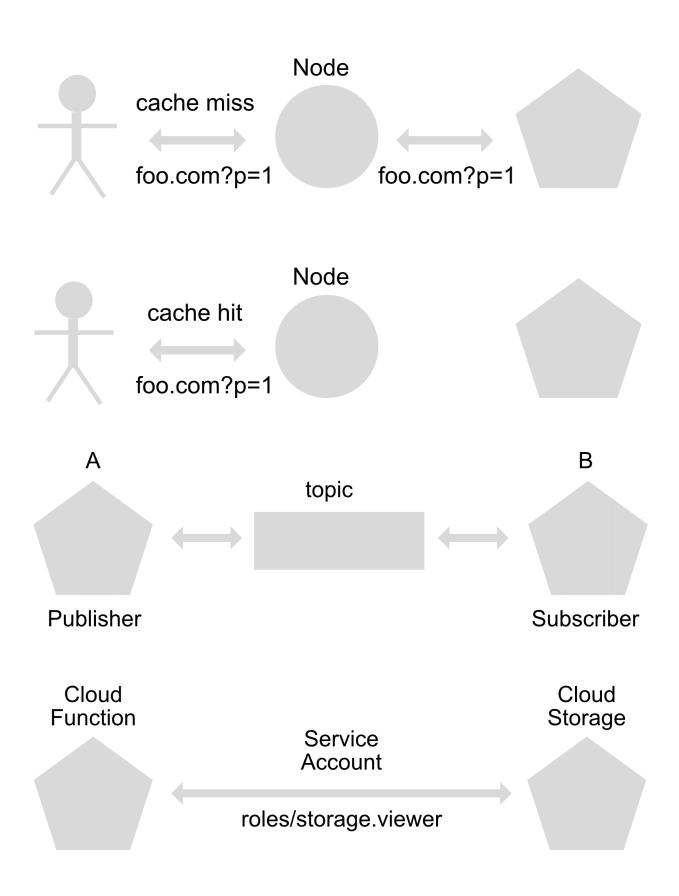


microservice pattern

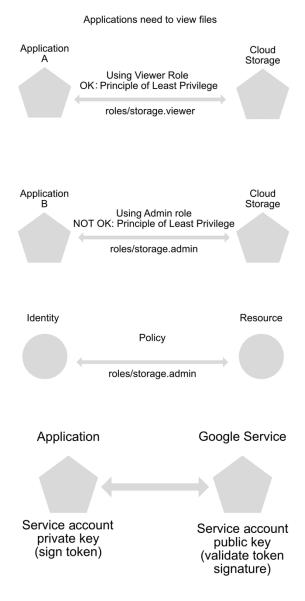


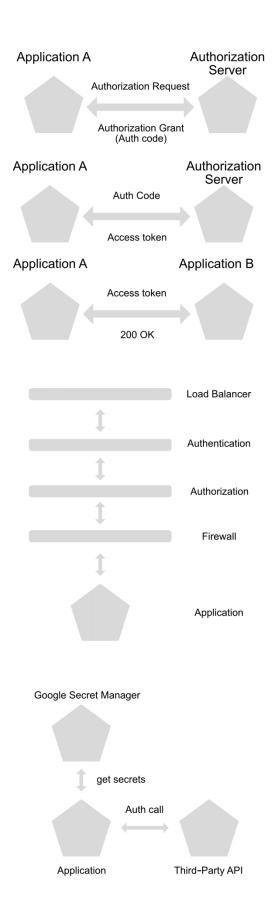


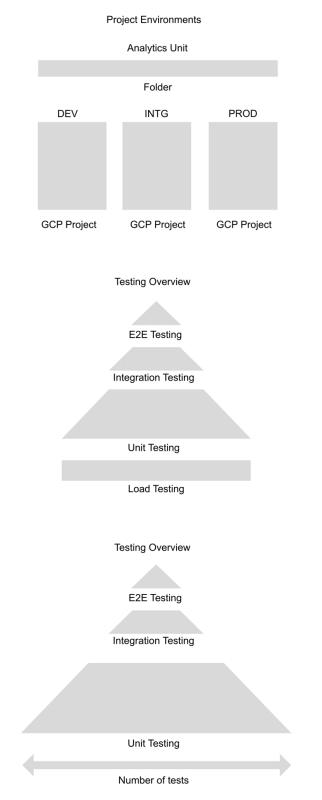




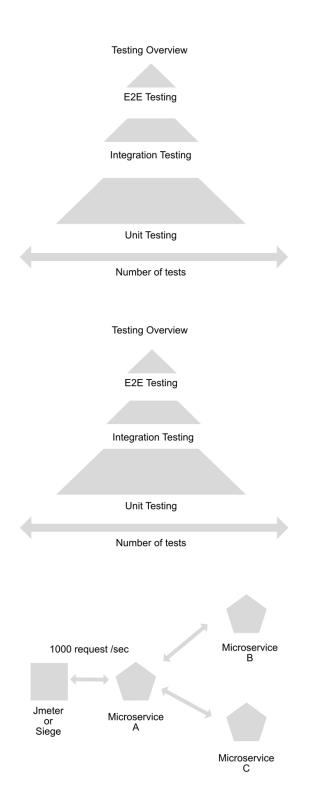


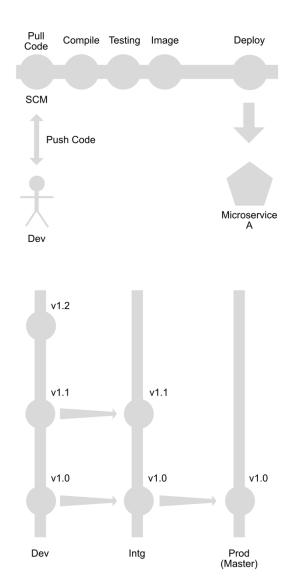


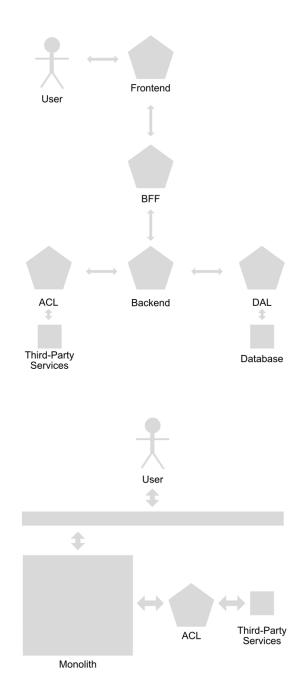




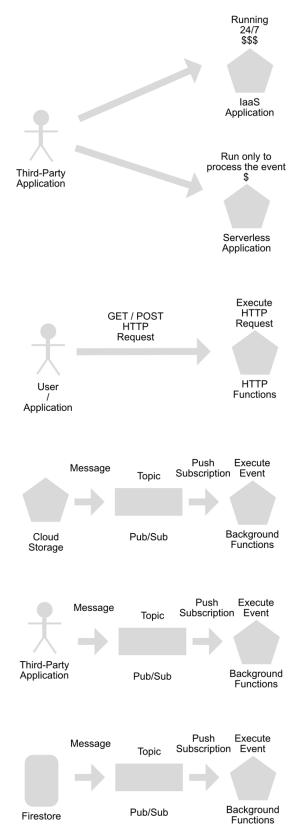
Chapter 3: Application Modernization Using Google Cloud

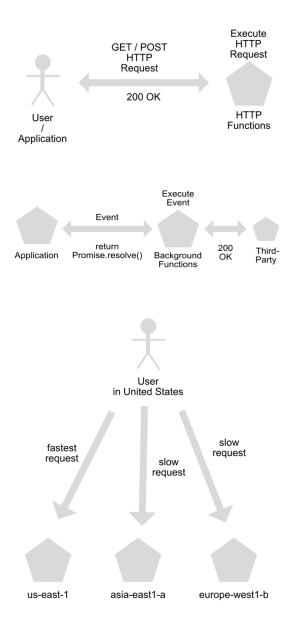


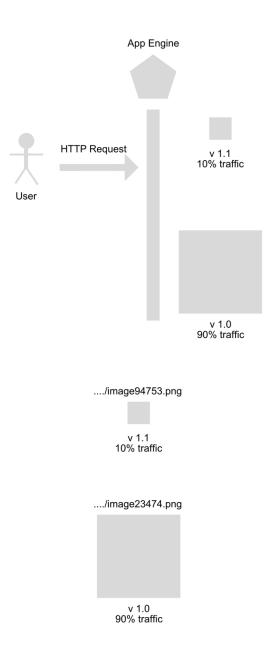


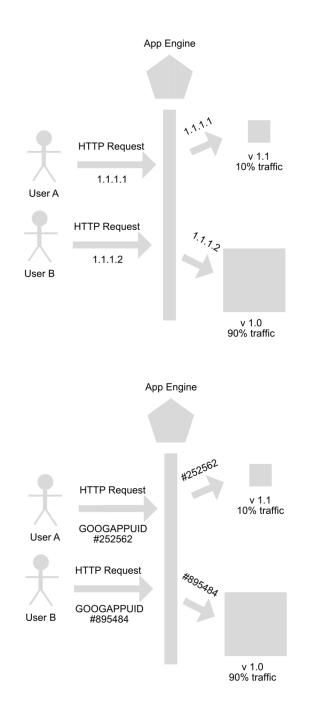


Chapter 4: Using Cloud Functions and Google App Engine

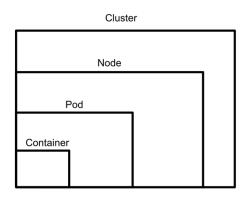








Chapter 5: Virtual Machines and Container Applications on Google Cloud Platform



Firewall ② Add tags and firewall rules to allow specific network traffic from the Internet
Allow HTTP traffic

J	/110/11	•		•			unio	
1	Allow	ŀ	ł	Т	ΤI	PS	traffic	

Management, security, disks, networking, sole tenancy

You will be billed for this instance. Compute Engine pricing [2]

Create Cancel

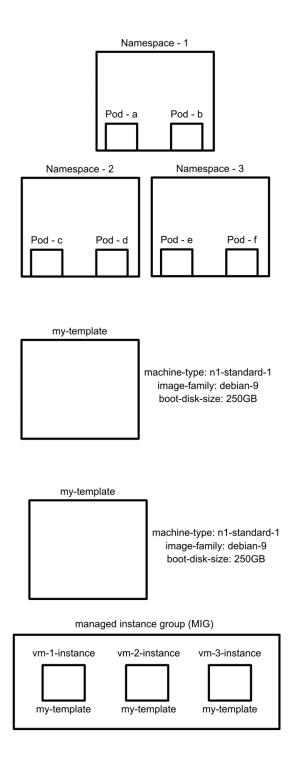
Equivalent REST or command line

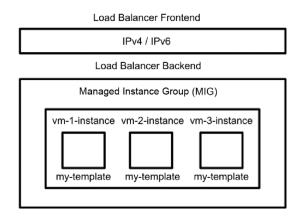
Automation

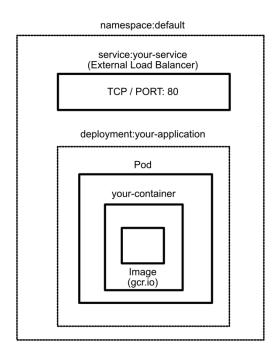
Startup script (Optional)

You can choose to specify a startup script that will run when your instance boots up or restarts. Startup scripts can be used to install software and updates, and to ensure that services are running within the virtual machine. Learn more

#!/bin/bash





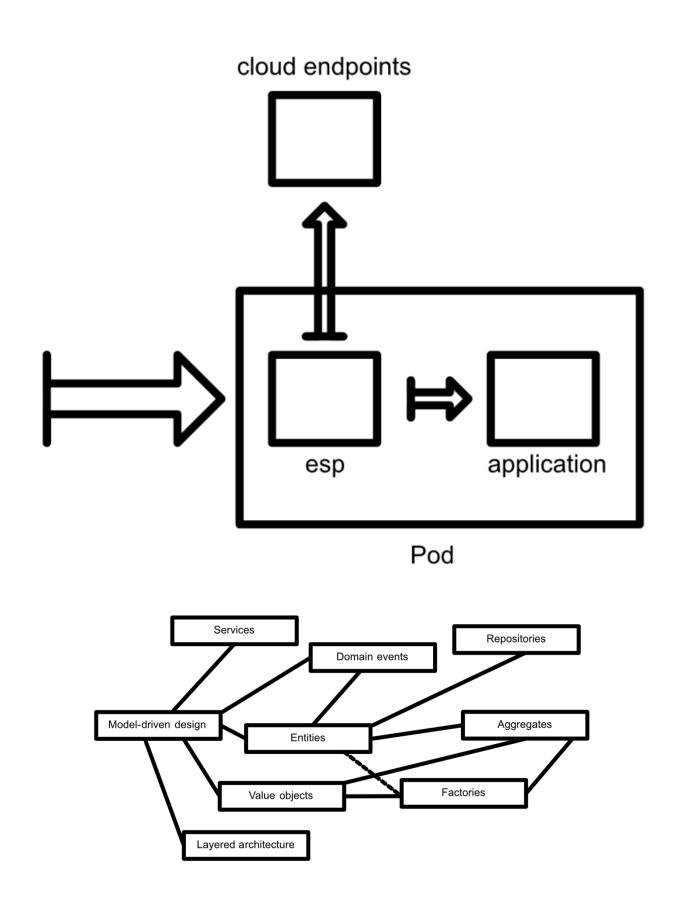


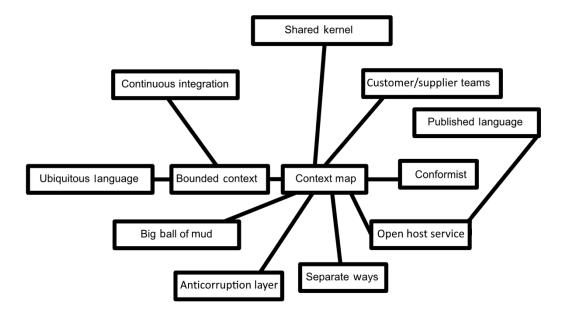
Chapter 6: Managing APIs on Google Cloud Platform

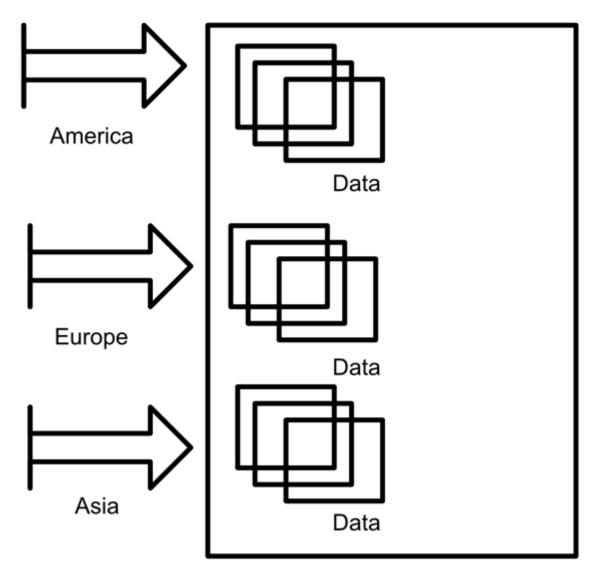
PetStore

pet	Show/Hide List Operations Expand Operations
GET /api/pet	
POST /api/pet	
DELETE /api/pet/{id}	
рит /api/pet/{id}	
[BASE URL: , API VERSION: V1]	

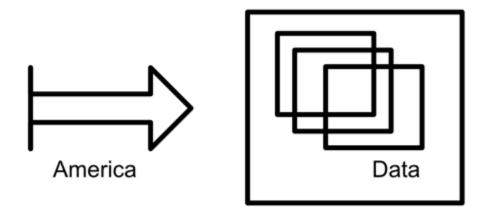
\varTheta Swa	agger Editor. File • Edit • Generate Server • Generate Client •		
	lgger: "2.0"		
	lescription: "This is a sample server Petstore server. You can find out more about Swagger at http://swagger.io or on [irc.freenode.net, #swagger](http://swagger.io/irc/). For this sample , you can use the api key 'special-key' to test the authorization filters."	[Base URL: petstore.swagger.io/v2]	
5 t 6 t 7 c	rension: "1.0.0" iitle: "Swagger Petstore" eemsOFService: "http://swagger.io/terms/" ontact:	This is a sample server Petstore server. You can find out more about Swagger at http://swagger.lo or on irc.freenode.net.#swagger.lo to test the author filters.	zation
8 9 - 1	email: "apiteam@swagger.io" .icense:	Terms of service	
10 11	name: "Apache 2.0" url: "http://www.apache.org/licenses/LICENSE-2.0.html"	Contact the developer	
12 hos	t: "petstore.swagger.io"	Apache 2.0 Find out more about Swagger	
13 bas 14 taa	sePath: "/v2" js:	Find out more about Swagger	
	ame: "pet" lescription: "Everything about your Pets"		
17 e 18 19 20 - r 21 c	xternalDocs: description: "Find out more" unl: "http://swagger.io" ame: "store" escription: "Access to Petstore orders"	Schemes Authorize	a
23 c 24 - e 25 26	name: "user" lescription: "Operations about user" xternalDocs: description: "Find out more about our store" url: "http://swaager.io"	pet Everything about your Pets Find out more: http://swagger.io	~
27 sch 28 - " 29 - "	'https"	POST /pet Add a new pet to the store	•
32 -	/pet: post:	PUT /pet Update an existing pet	
33 34 35	tags: - "pet" summary: "Add a new pet to the store"	GET /pet/findByStatus Finds Pets by status	-
36 37 38 39	description: "" operationId: "addPet" consumes:	CET /pet/findByTags Finds Pets by tags	-



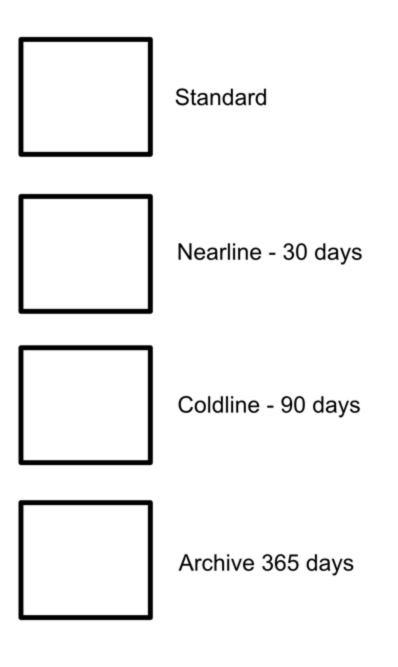




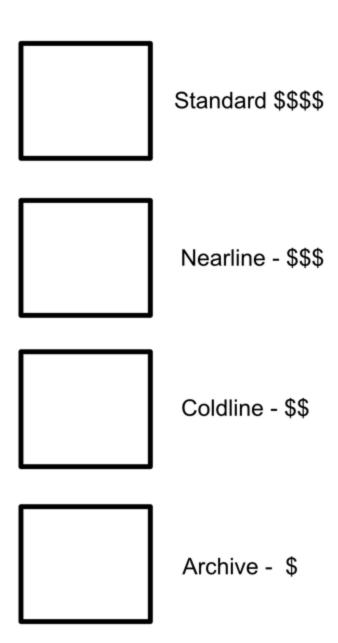
Chapter 7: Handling Unstructured Data



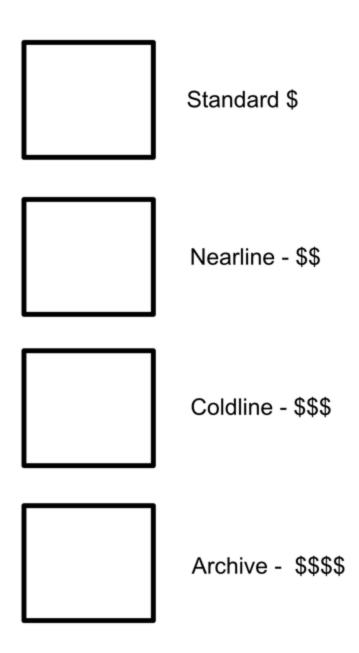
America



Storage costs



Retrieval costs



Standard - Hot data

S

Availability: region: 99.9% multi-region: 99.95% dual-region: 99.95% storage cost: \$\$\$\$ retrieval cost: \$

Use cases: Good for frequently accessed data. Websites, streaming videos and mobile apps.

Nearline - 30 days

Availability: region: 99% multi-region: 99.9% dual-region: 99.9%



storage cost: \$\$\$ retrieval cost: \$\$

Use cases: Data backup and long-tail multimedia content. Coldline - 90 days



Availability: region: 99% multi-region: 99.9% dual-region: 99.9% storage cost: \$\$ retrieval cost: \$\$\$



Archive 365 days

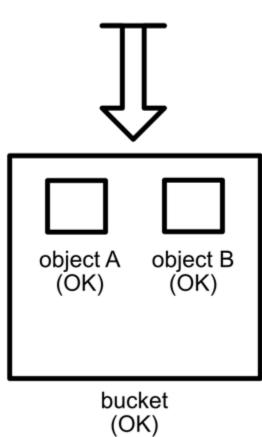


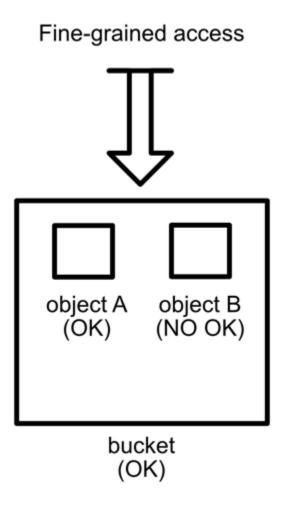
Availability: region: 99% multi-region: 99.9% dual-region: 9i9.9%

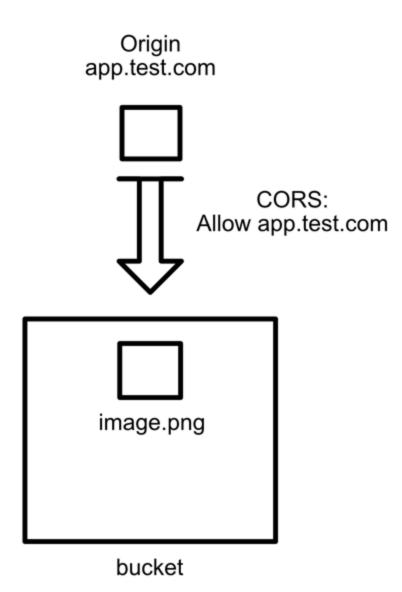
storage cost: \$ retrieval cost: \$\$\$\$

Use cases: Regulatory archives.

Uniform access







Chapter 8: Databases and Event Messages in Google Cloud

Clients

id: 1 name: Sebastian state_id: 2 city_id: 3

States

id: 2 name: California

Cities

id: 3 name: San Francisco state_id: 2 Clients

{

name: Sebastian state: California city: San Francisco

}

← Create a MySQL instance

Choose region and zonal availability

In case of outage, no failover. Not recommended for production.

permanent, while zone can be changed any time.

Instance info		
my-db-instance		
Use lowercase letters, numbers, and hyphens. Start with a	etter.	
Password *		
•••••	Ø	GENERATE
Set a password for the root user. Learn more		
No password		
Database version *		
MySQL 8.0		•

For better performance, keep your data close to the services that need it. Region is

Region us-central1 (lowa) DB Version MySQL 8.0 1 vCPU vCPUs Memory 3.75 GB Storage 100 GB Network throughput (MB/s) 250 of 2,000 Disk throughput (MB/s) Read: 48.0 of 240.0 0 Write: 48.0 of 72.0 IOPS 😮 Read: 3,000 of 15,000 Write: 3,000 of 4,500 Connections Public IP Backup Automated Availability Single zone Point-in-time recovery Enabled

Summary

Automatic failover to another zone within your selected region. Recommended for production instances. Increases cost. Enables binary logs (required for replication) and automatic backups. Make sure your storage can support at least 7 days of logs.

O Multiple zones (Highly available)

Region

us-central1 (Iowa)

Single zone

✓ SPECIFY ZONES

Customize your instance

You can also customize instance configurations later

✓ SHOW CONFIGURATION OPTIONS

CREATE INSTANCE CANCEL

	SQL	Overviev	v 🧪	EDIT	🛓 IMPORT	🏦 EX	PORT	U REST	ART	STO	Pi	DELETE	
	ARY INSTANCE	All instance	es > my-db-i	nstance									
	Overview	🛛 my-d	b-instanc	е									
	Connections	MySQL 5.7											
	Users		Chart metric CPU utilization	1	•								
]	Databases												
	Backups		1 hour 6 hou	ırs 1 da	iy 7 days 3	0 days							1
	Replicas												ε
	Operations				A 11-1		h l = 6 = 14h						6
					A NO d	ata is availa	able for th	e selected	ume tran	ne.			4
													2

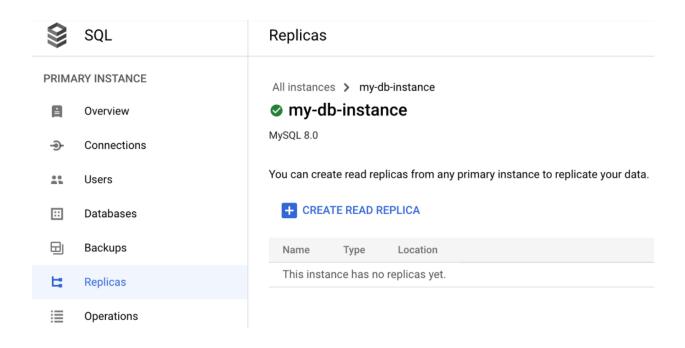
•

\otimes	SQL	Connections					
PRIM/	ARY INSTANCE Overview Connections	All instances > my-db-instance my-db-instance MySQL 8.0					
**	Users	Networking					
	Databases	Choose a network path for connecting to this instance. For extra security, consider the Cloud SQL proxy. Learn more					
⊟	Backups	Private IP					
븝	Replicas	Requires additional APIs and permissions, which may require your system admin. Can't be disabled once enabled. Learn more					
	Operations	Public IP Authorize a network or use <u>Cloud SQL Proxy</u> to connect to this instance. Learn more You have not authorized any external networks to connect to your Cloud SQL instance. External applications can still connect to the instance through the Cloud SQL Proxy. Learn more					
		Authorized networks					
		ADD NETWORK					
		SAVE DISCARD CHANGES					

♦	SQL	Users	
PRIMA	ARY INSTANCE	All instances 🖒 m	ny-db-instance
	Overview	🛯 my-db-inst	tance
-D-	Connections	MySQL 8.0	
	Users	User accounts enable	users and applications to connect to your instance. Learn more
	Databases	+ ADD USER AC	CCOUNT
▣	Backups	User name 🔺	Host name
片	Replicas	root	% (any host)
≣	Operations		

♦	SQL	Databases								
PRIMA	ARY INSTANCE	All instances > my-db-in	stance							
Ē	Overview	my-db-instance								
-D-	Connections	MySQL 8.0								
::	Users	+ CREATE DATABASE								
	Databases	Name 🛧	Collation	Character set	Туре					
	Backups	information_schema	utf8_general_ci	utf8	System					
片	Replicas	mysql	utf8_general_ci	utf8	System					
-	Nophodo	performance_schema	utf8mb4_0900_ai_ci	utf8mb4	System					
	Operations	sys	utf8mb4_0900_ai_ci	utf8mb4	User					

≫	SQL	Backups					
PRIMA	ARY INSTANCE	All instances 🔉 my-db-instan	ce				
	Overview	my-db-instance					
-D-	Connections	MySQL 5.7					
**	Users	Settings 🧪 EDIT					
::	Databases	Automated backups	Enabled				
	Backups	Backups window	1:00 PM - 5:00	PM (UTC-4)			
	Buokupo	Automated backups retained	7				
片	Replicas	Point-in-time recovery	Enabled				
:=	Operations	Days of logs retained	7				
.=		CREATE BACKUP Filter Filter backups	Multi-region: us				0
Ē	Release Notes	Created 😰 🤟	Туре	Location	Description		
<1		 Jun 30, 2021, 11:49:31 AM 	On- demand	Region: us- central1	Taking a backup after instance creation	Restore	÷



≫	SQL	Operations		
PRIMA	RY INSTANCE	All instances > my-db-instance		
日	Overview	ø my-db-instance		
⇒	Connections	MySQL 8.0		
**	Users	A log of operations your database instance is currently running and has completed. Learn more		
	Databases	Creation Time	Туре	Status
	Barlana	Mar 22, 2021, 7:41:45 PM	Backup	Backup finished
▣	Backups	Mar 22, 2021, 7:37:17 PM	Create	Create finished
片	Replicas			
i	Operations			

Native mode

Enable all of Cloud Firestore's features, with offline support and real-time synchronization.

SELECT NATIVE MODE

Datastore mode

Leverage Cloud Datastore's system behavior on top of Cloud Firestore's powerful storage layer.

SELECT DATASTORE MODE

API	Firestore	Datastore
Scalability	Automatically scales to millions of concurrent clients	Automatically scales to millions of writes per second
App engine support	Not supported in the App Engine standard Python 2.7 and PHP 5.5 runtimes	All runtimes
Max writes per second	10,000	No limit
Real-time updates	~	×
Mobile/web client libraries with offline data persistence	~	×

~	Firestore	Data Cloud Firestore in		Native mode 💡 Database location: nam5 (us-central)
۹	Data	/ > myCollection > QyhJICDZjASSjmJrERZz		
Ð	Indexes	Root	myCollection =	QyhJICDZjASSjmJrERZz
企	Import/Export	+ START COLLECTION	+ ADD DOCUMENT	+ START COLLECTION
th	Usage	imyCollection	QyhJICDZjASSjmJrERZz >	+ ADD FIELD myField: "myValue"
0	Security Rules	test		

Filter for documents in 'myCollection'

Add filters

Choose a field to filter by

myField

Add a condition (optional)

Only show documents where the specified field is...

/ \	- A 10 10 10 10 10 10 10	10.00
(==)	equal	to
()	cquui	.0

String

myValue

Б

Sort results

\cap	Ascending	ordor
\cup	Ascending	oruer

O Descending order

Preview query code

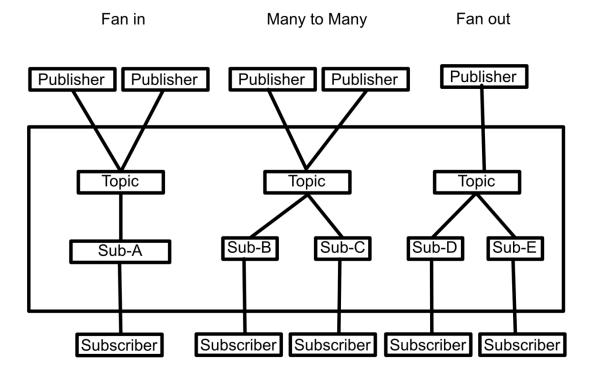
```
.collection("myCollection")
    .where("myField", "==", "myValue")
```

APPLY CLEAR FILTER CANCEL

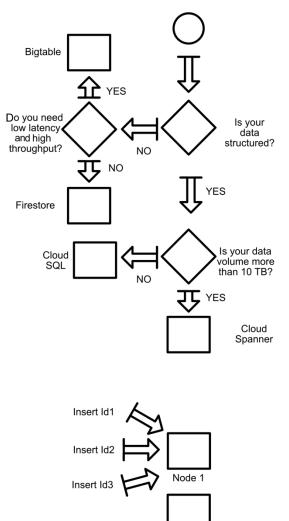
	Firestore	Indexes	COMPOSITE	SINGLE FIELD	Database location: nam5 (us-central)
۹	Data	Composite indexes s	upport queries that mat	ch across multiple fields by indexing com	nbinations of fields in a collection. Learn more
Ð	Indexes	Composite in	dexes + CR	EATE INDEX	
£	Import/Export	= Filter Filte	r		0
th	Usage	-		elds	Query scope
0	Security Rules	_ my	Collection	myField: ASC myFieldTwo: ASC	Collection

	Firestore	Import/Export
۹	Data	Move data between Firestore projects and GCS here, or using gcloud . Export regularly,
ß	Indexes	and before major updates, to back up your data and safeguard against error. Learn more
đ	Import/Export	L IMPORT L EXPORT
th	Usage	
۲	Security Rules	Recent imports and exports You'll see the most recent ongoing and completed imports and exports here.
		Filter Filter operations
		● Started ↓ Type Collection groups Bucket Size Completed
		You haven't moved any data recently.

?	Firestore	Usage Last refreshed Jun 17, 2021 at 12:09:40 PM GM	17-4	
۹	Data		Vrites	Deletes
B	Indexes	12 0)	0
企	Import/Export	First 50,000 free. Fi	First 20,000 free.	First 20,000 free.
ih.	Usage			
0	Security Rules	Usage over time READS WRITES DELETES Reads - cumulative All times are in Pacific Time	•	Current 24-hour period 20
<1		UTC-7 2:00 AM 4:00 AM 6:00 AM 8:00 AM	10:00 AM 12:00 PM 2:00 PM 4:00 PM	6:00 PM 8:00 PM 10:00 PM Jun 18



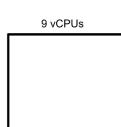
Chapter 9: Data Management and Database Strategies

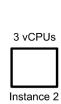






Instance 1

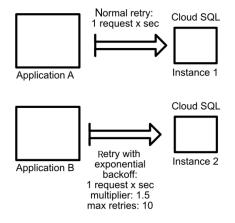


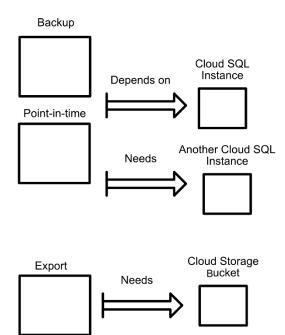


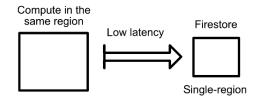
Instance 1

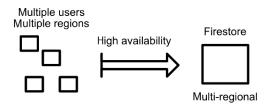




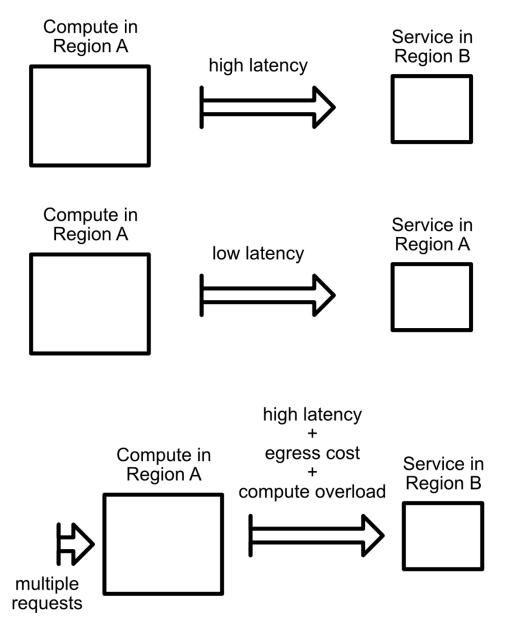


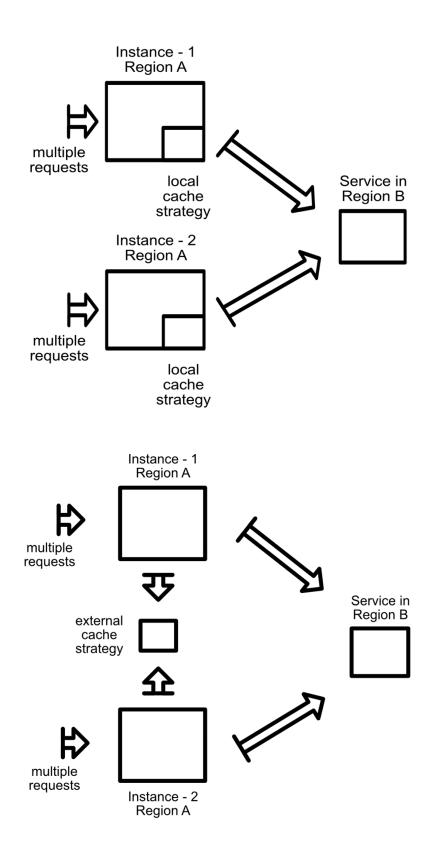




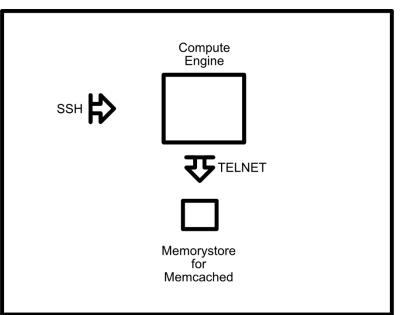


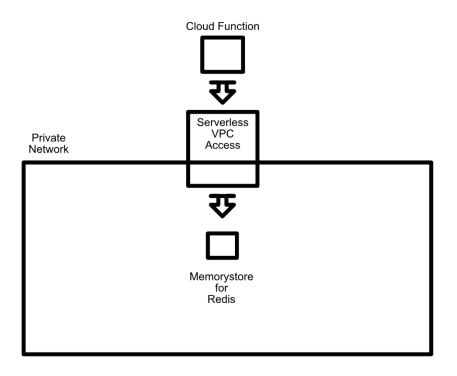
Chapter 10: Optimizing Applications with Caching Strategies on Google Cloud Platform



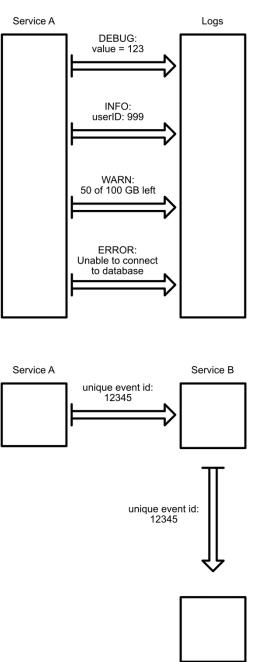








Chapter 11: Logging on Google Cloud Platform



Service C

ogs Sto	rage	CREATE LOGS BUC	KET 🤶 CREATE U	JSAGE ALERT	DELETE	
Current to	otal volume			Previous mo	onth volume	Projected volume by EOM
72.43 Mi	iB			0 B		116.76 MiB
Since the f	irst of this month.	See total usage by resour	rce type	Total for mon	th of March. See bill	By end of the month
ogs buc	kets					
						Ø
ogs buc		Description	Retention period	Region	Status	0
ogs buc ╤ Filter	Filter	Description Default bucket	Retention period 30 days	Region global	Status Unlocked	0

Query builder Recent (1)	Saved (0) Suggested (0)		Save Stream logs Run query
Resource v Log name v	Severity ~		
<pre>1 resource.labels.function</pre>	me="cloud-logging-test"		
Log fields	Histogram		
Search fields and values RESOURCE TYPE	- 2		Π
Cloud Function	10 L.		
SEVERITY	(Apr 19, 9:40 AM)	10:00 AM	10:30 AM (Apr 19, 10:41 AM)
i) Notice	7		
Debug	Query results []		Jump to now Actions - Configure
Default	SEVERITY TIMESTAMP CLT - SUMMA	RY	
Dendar		d-logging-test User not found	
	<pre></pre>	Z" ogs/cloud-logging-test"	fields (Copy to clipboard) (e Copy
	> 0 2021-04-19 10:33:29.665 CLT clou	d-logging-test xxps7tq0n68y 😤 Function execution to	ok 107 ms, finished with status code:
	> i 2021-04-19 10:38:40.053 CLT IAM	cloudfunctions.googleapis.com _	
	> (i 2021-04-19 10:39:29.442 CLT IAM	cloudfunctions.googleapis.com _	

Messages

Click Pull to view messages and temporarily delay message delivery to other subscribers. 0

Select Enable ACK messages and then click ACK next to the message to permanently prevent message delivery to other subscribers. Only a few messages will be pulled at a time. Click Pull again to retrieve more messages from the backlog. Use this option cautiously in production environments. If you miss the acknowledgement deadline (10 seconds), the message will be sent again if no other subscribers of this subscription acknowledged the message. Learn more

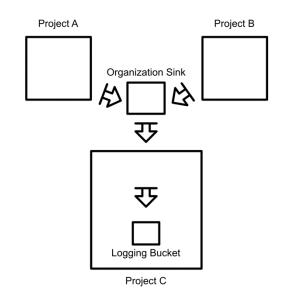
PULL Enable ack messages

Publish time	Attribute keys	Message body	Ack 🕇	
Apr 19, 2021, 12:52:51 PM	logging.googleapis.com/timestamp	{"insertId":"OLGsCiqHd1w9DXna.yRm.N","jsonPayload":	Deadline exceeded	``
Apr 19, 2021, 12:52:52 PM	logging.googleapis.com/timestamp	{"insertId":"WLGsCiqHd1w9DXna.yRm.N","jsonPayload"	Deadline exceeded	``
Apr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-1417c937-c6a7-4a82-a54c-72184d16662	Deadline exceeded	``
Apr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-d83ccdce-1912-4e80-940e-e682cc14a62	Deadline exceeded	•
Apr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-e300dc6f-3c2f-4cd9-8ef3-58b1b71cc136	Deadline exceeded	•
Apr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-de1fb446-e8bd-491e-9718-ef2cc5eedf90"	Deadline exceeded	•
Apr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-cbbce78a-3e14-4c44-9f34-ff58cc4f943e"	Deadline exceeded	•
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-1ee6df9f-87b7-4c0e-a647-ee36ec21eb53	Deadline exceeded	
Apr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-7e290973-5422-4f65-992d-0072213d017	Deadline exceeded	•
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-ca0696ca-f763-42e8-9a9b-7cb404d14f8b	Deadline exceeded	
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-119e0f32-17b0-4a8c-acdd-d6e8d590454	Deadline exceeded	•
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-c2e5585e-e707-48f2-876a-3a909287bf98	Deadline exceeded	•
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-0058287b-d5e9-427e-84f0-d0797bcbdb7	Deadline exceeded	•
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-76b8b1cf-a05a-4b72-b1a6-ffd6deca4c68	Deadline exceeded	
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-38336e86-3ff2-475d-89e5-a049c47aed14	Deadline exceeded	
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-3301be20-24bb-4df4-acd2-e6b438007c3	Deadline exceeded	
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId":"000000-a6f49f9d-c565-4387-8ed8-3046464f5189	Deadline exceeded	
pr 19, 2021, 12:52:55 PM	logging.googleapis.com/timestamp	{"insertId": "000000-481b75a4-0723-4fa4-bdf9-49de791f6feb	Deadline exceeded	

CLOSE

Explorer + ADD DATA	test 🝷 🗙	+ COMPOSE N	IEW QUERY	0	*UNSAVE	• ×						+ COMP	DSE NEW QUERY
	cloud_logging_t	test_202104			🕑 RUN	C MORE	- O	SCHEDULE -	e	SAVE -		This query will pro	cess 0 B when ru
C Type to search	Schema Details	Preview			1 SELEC	T * FROM		. 1	mydatase	t.cloud_log	gging_test_20210419` LIMIT	1888	
ewing pinned projects.	Field name	Туре	Mode										
	logName	STRING	NULLABLE										
mydataset	resource	RECORD	NULLABLE										
cloud_logging_test_(1)	resource. type	STRING	NULLABLE										
🖽 sink 🚦	resource. labels	RECORD	NULLABLE										
	resource.labels. func tion_name	STRING	NULLABLE										
:• :	resource.labels. proj ect_id	STRING	NULLABLE										
	resource.labels. regi on	STRING	NULLABLE	0	uery result	s	📩 SAVE	RESULTS	ᡬ EXP				
	textPayload	STRING	NULLABLE	-		-							
	jsonPayload	RECORD	NULLABLE		uery complete	(0.4 sec elaps	sed, 0 B proce	essed)					
	jsonPayload. value	STRING	NULLABLE	J	ob information	Results	JSON	Execution detai	ails				
	jsonPayload. event	STRING	NULLABLE	Row	logName				re	source.type	resource.labels.function_name	resource.labels.project_id	resource.labels
	jsonPayload. messa	STRING	NULLABLE	1	projects/		i/logs	/cloud-logging	g-test cle	oud_function	cloud-logging-test		us-central1
	ge			2	projects/		i/logs	/cloud-logging	g-test cli	oud_function	cloud-logging-test		us-central1
	timestamp	TIMESTAMP	NULLABLE	3	projects/		i/logs	/cloud-logging	g-test cla	oud_function	cloud-logging-test		us-central1
	receiveTimestamp	TIMESTAMP	NULLABLE	4	projects/		i/logs	cloud-logging	g-test cle	oud_function	cloud-logging-test		us-central1
	severity	STRING	NULLABLE										
	insertId	STRING	NULLABLE										
	httpRequest	RECORD	NULLABLE										

Logs Explorer Options - 🖸 REFINE SCOPE Proje	SHARE LINK	() 9:33:29 AM - 10:33:29 AM	PAGE LAYOUT	S LEARN
Query builder Recent (2) Saved (0) Suggested (0) Resource v Log name v Severity v		Save	Stream logs Run que	ery X
Resource v Log name v Severity v 1				



Dashbo	ards Overview	+ CREATE DASHBOARD	BIGTABLE KEY VISUALIZER	ODASHBOARD TEMPLATES [2]
Recent Da	shboards			
	/M Instances Google Cloud Platform			
∓ Filt	ter Filter Dashboards			0
1	Name			Туре 🕑
☆	BigQuery			Google Cloud Platform
☆	Cloud Pub/Sub			Google Cloud Platform
☆	Cloud Storage			Google Cloud Platform
☆	Disks			Google Cloud Platform
☆	Firewalls			Google Cloud Platform
☆	Infrastructure Summary			Google Cloud Platform
☆	VM Instances			Google Cloud Platform

Line chart 👻	S C MOSAIC GRID + ADD CHART CLONE CHART > JSON EDITOR	:
BASIC ADVANCED MQL Chart Title VM Instance - CPU utilization [MEAN]	Dashboard Editor Dashboard editor! Configure the size and position of the charts, gauges, scorecards, and text boxes that you add to your dashboard.	×
Resource type VM Instance • X @ Metric CPU utilization • X @	1 min interval (mean)	
ADD FILTER	10%	
How do you want to view that data?	5%	
Group by 🗸 🔮	UTC-4 11:30 AM 12:00 PM	
ADD ANOTHER METRIC		

Chapter 12: Cloud Monitoring, Tracing, and Debugging

Uptime checks	± +	CREATE UPTIME CHECK + 1 RECOMMENDED ALERT		ERT		
= Filter Enter propert	y name or value					0
Display Name 🕇	Asia Pacific	Europe	North America	South America	Policies	
uptime-check-test-2		Ø		S	1	:
Uptime checks	± +	· CREATE UI	PTIME CHECK	+ 1 RECOM	IMENDED AL	ERT
= Filter Enter propert	ty name or value					Ø
Display Name 🕇	Asia Pacific	Europe	North America	South America	Policies	
uptime-check-test-2	0	•	0	0	1	:

VIEW INCIDENT



Alert firing

Failure of uptime check_id uptime-checktest-2

An uptime check on test2-311919 monitoring-test is failing.

Summary

Start time April 27, 2021 at 11:06PM UTC (43 sec ago)

Project test2-311919

Policy uptime-check-test-2 uptime failure

Condition

Failure of uptime check_id uptime-check-test-2

Metric monitoring.googleapis.com/uptime_check/check_passed

Threshold above 1

Observed 6.000

VIEW INCIDENT

Alert recovered

Failure of uptime check_id uptime-checktest-2

The uptime check for test2-311919 monitoring-test has returned to a normal state.

Summary

Start time April 27, 2021 at 11:06PM UTC (~4 min, 30 sec ago)

Alert firing lasted 3 mins 57 secs

Project test2-311919

Policy uptime-check-test-2 uptime failure

Condition Failure of uptime check_id uptime-check-test-2

Metric

monitoring.googleapis.com/uptime_check/check_passed

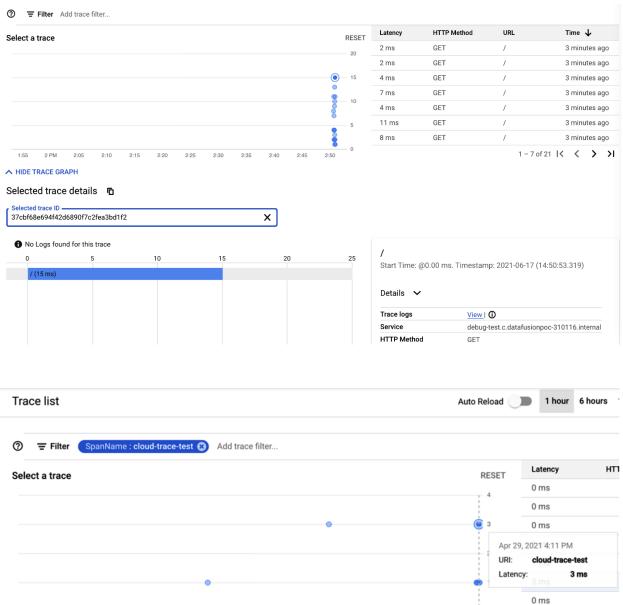
Threshold above 1

Observed 0.000

VIEW INCIDENT

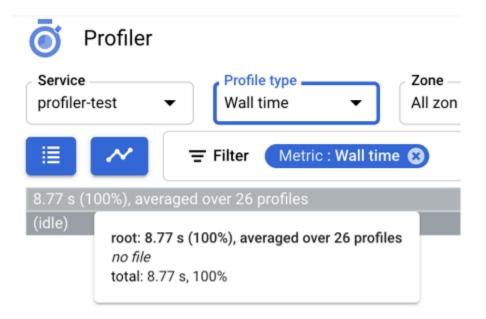
```
SNAPSHOT
                                                                              LOGPOINT
   Q Type a file name
      require('@google-cloud/debug-agent').start({
  1
                                                               File and Line *
  2
        serviceContext: {
                                                               index.js:15
  3
          service: 'debug-test',
          version: '1.0.1',
  4
  5
          enableCanary: false
                                                              Variables
  6
       }
                                                                                   2021-06-17 (13:33:24) -0400
  7
      });
                                                             Name
                                                                           Value
      const express = require('express')
  8
  9
      const app = express()
                                                              req
                                                                           IncomingMessage
 10
                                                                           ServerResponse
                                                              l res
      app.get('/', function (req, res) {
 11
 12
                                                                           Sebastian
                                                                name
 13
        var name = req.query.name;
 14
                                                              context
                                                                           global
        res.send('Hello ' + name);
 16
 17
      })
 18
19
      app.listen(80);
```

```
Q Type a file name
1
    require('@google-cloud/debug-agent').start({
      serviceContext: {
2
        service: 'debug-test',
3
 4
        version: '1.0.0',
5
        enableCanary: false,
6
      }
7
    });
8
9
     const express = require('express')
    const app = express()
10
11
12
    app.get('/', function (req, res) {
13
14
       var name = req.query.name;
                                                                        Log Level
                                                                                      CANCEL
                                                                                                 UPDATE
                                                                        Info
                                                                                 •
           if (true) logpoint("it works")
15
       res.send('Hello ' + name);
16
17
18
    })
19
20
     app.listen(80);
21
```



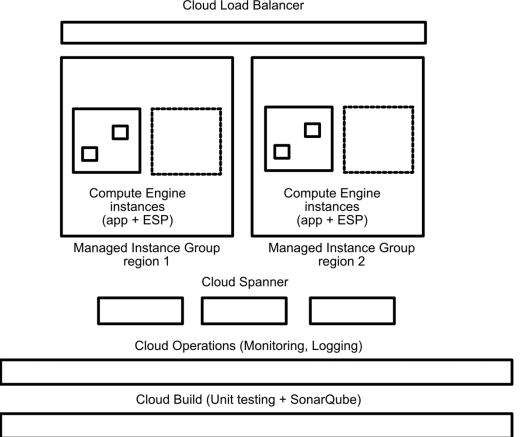


Ö Profiler		
Service profiler-test ▼	Profile type Wall time	Zone – All zon
	Filter Metric : Wall time	• 😣
8.77 s (100%), averaged	d over 26 profiles	
(idle) root: 8.77 s (<i>no file</i> total: 8.77 s,	(100%), averaged over 26 profile	s



Service profiler-test	Profile type Heap 🗸	Zone All zones
	∓ Filter Metric : space	ce 🙁 Add profile data f
7.948 MiB (100%), a	veraged over 28 profiles	

Chapter 13: HipLocal Sample Case Study Preparation



Cloud Load Balancer

Chapter 14: Questions and Answers

<mark>No Images</mark>