

Assignment 4

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<https://github.com/harshithatk33/CloudComputing-Storagebucket-PageRankAlgorithm>

The commands used to execute the whole assignment has been added In the Readme file under Assignment4 folder.

First App API Link: <http://34.28.125.248:8080/<file>>

The Startup script which is used has been added to the github repository and the VM is running the same.

The screenshot displays the Google Cloud Platform console interface. The left sidebar shows the navigation menu with categories like Compute Engine, Storage, and Marketplace. The main content area is titled 'VM instances' and includes a table of active instances. A notification at the top suggests switching to zonal DNS. Below the table, there are several 'Related actions' such as 'Explore Backup and DR', 'View billing report', and 'Monitor VMs'.

Status	Name	Zone	Internal IP	External IP	Connect
Running	htk-assignment4-client-vm	us-central1-a	10.128.0.9	34.42.111.12	SSH
Running	htk-assignment4-consumer-vm	us-central1-a	10.128.0.8	34.122.123.49	SSH
Running	htk-assignment4-publisher-vm	us-central1-a	10.128.0.7	34.28.125.248	SSH
Running	instance-1	us-central1-a	10.128.0.10	35.239.210.207	SSH

← → ↻ 34.28.125.248:8080/200.html

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Network

New Request	Search	Blocking	Status	Method	Domain	File	Initiator	Type	Transferred	Size	Time
GET	URL		200	GET	34.28.125.248:8080	200.html	document	html	102.16 kB	102 kB	2255 ms
URL Parameters			404	GET	34.28.125.248:8080	favicon.ico	FaviconLoader.sys.mst...	html	174 B	14 B	2079 ms

URL Parameters

name	value
name	value

Headers

name	value
name	value

Body

payload

Clear Send

2 requests | 102.01 kB / 102.33 kB transferred | Finish: 4.26 s | DOMContentLoaded: 2.26 s | load: 2.27 s

Network

New Request	Search	Blocking	Status	Method	Domain	File	Initiator	Type	Transferred	Size	Time
POST	http://34.28.125.248:8080/200.html		200	POST	34.28.125.248:8080	200.html	document	html	102.16 kB	102 kB	2255 ms
URL Parameters			404	GET	34.28.125.248:8080	favicon.ico	FaviconLoader.sys.mst...	html	174 B	14 B	2079 ms
Headers			503	POST	34.28.125.248:8080	200.html	NetUtil.sys.mst...	html	185 B	19 B	19 ms

URL Parameters

name	value
name	value

Headers

Host	34.28.125.248:8080
Accept-Encoding	gzip, deflate
Connection	keep-alive
Upgrade-L	1
User-Agent	Mozilla/5.0 (Macintosh; Intel Mac OS X...
Accept	text/html,application/xhtml+xml,application/javascript;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language	en-US,en;q=0.5
name	value

Clear Send

3 requests | 102.03 kB / 102.34 kB transferred | Finish: 8.46 s | DOMContentLoaded: 2.20 s | load: 2.20 s

POST http://34.28.125.248:8080/200.html

Status: 503 NOT IMPLEMENTED

Version: HTTP/1.1

Transferred: 185 B (19 B size)

DNS Resolution: System

Response Headers (165 B)

Connection	close
Content-Length	19
Content-Type	text/html; charset=utf-8
Date	Thu, 19 Oct 2023 02:46:17 GMT
Server	gunicorn

Request Headers (462 B)

Accept	text/html,application/xhtml+xml,application/javascript;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Encoding	gzip, deflate

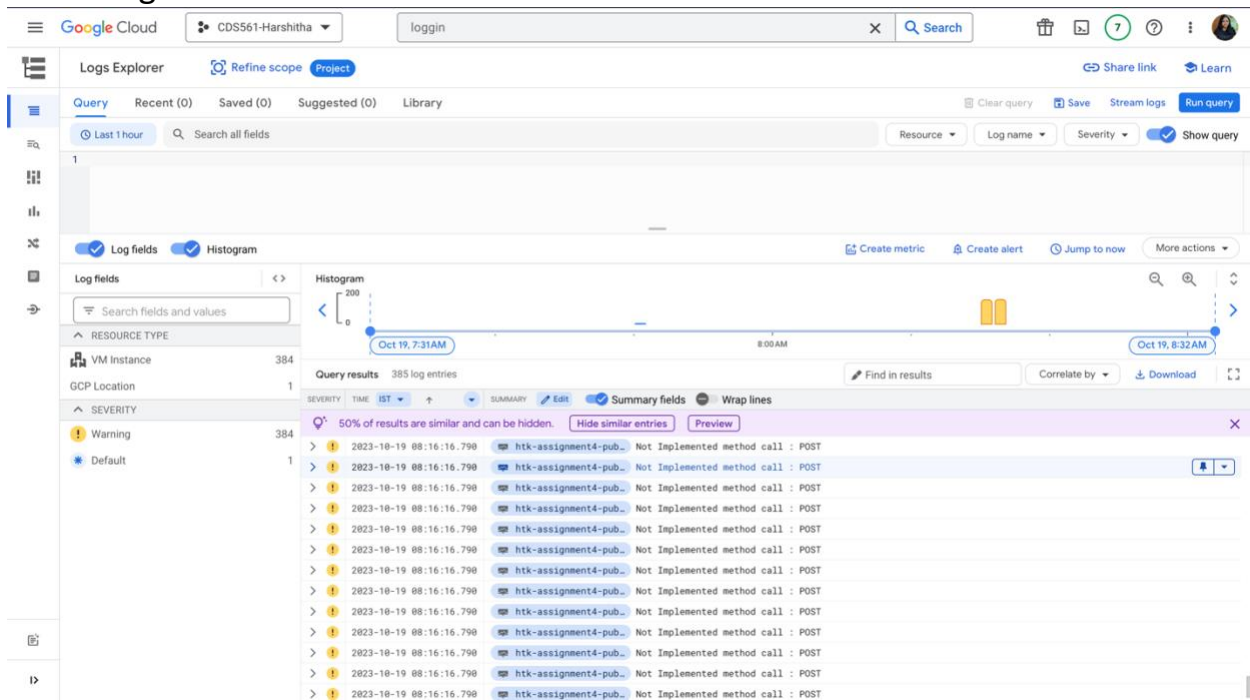
Consumer App Output:

```

htk@htk-assignment4-consumer-vm:~$ python3 consumer.py
Listening for messages on projects/quiet-sanctuary-399818/subscriptions/cds561_Assignment3-sub..
Received the message from pub : b'{"country": "Iran", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Cuba", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Iran", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Iraq", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Cuba", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Iran", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Iraq", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Cuba", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "North Korea", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Sudan", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Cuba", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Myanmar", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Sudan", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Iran", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Sudan", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Syria", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Zimbabwe", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Syria", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Syria", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Zimbabwe", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Iran", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Received the message from pub : b'{"country": "Cuba", "request": "GET", "args": "ImmutableMultiDict({})", "data": "b'\\"\\'\\', "message": "Request from an unauthorized country"}'.
Listening for messages on projects/quiet-sanctuary-399818/subscriptions/cds561_Assignment3-sub..

```

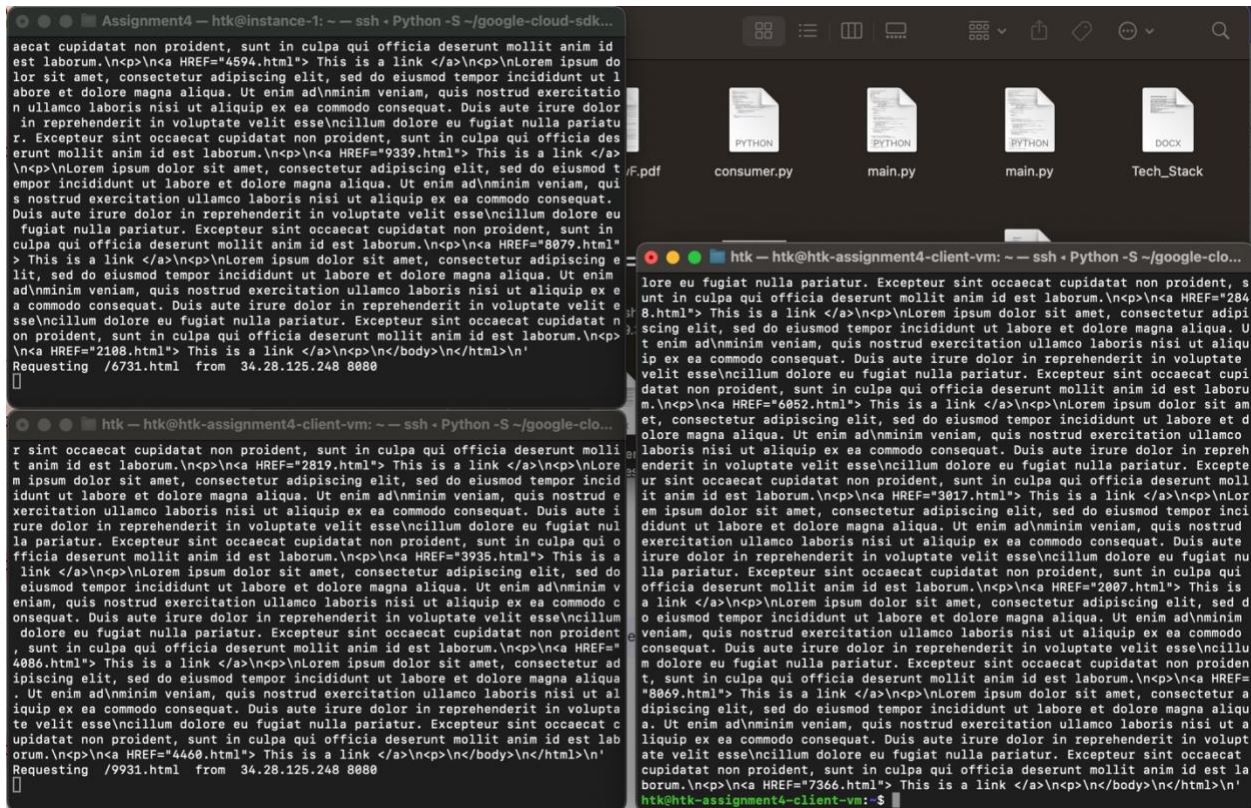
Cloud Logs:



Stress Test:

Ran three parallel client calls to the server.

Approx Run Time: ~34 min.



Cost:

