

How to run apps:

App 1:

App 1 is already created as a Cloud Function

To configure “gcloud functions deploy DS561Project3App1 --gen2 --runtime=python312 --region=us-central1 --source=. --entry-point=(function name of choice) --trigger-http --allow-unauthenticated” while in the folder of your desired python code and requirements.txt file.

Here are ways of invoking App 1:

Client:

- a) Input in terminal “python http-client.py -d ds561project3app1-7o7cte2aba-uc.a.run.app -b /bu-ds561-bding_bu_edu -w files -n (number of requests) -s”

curl:

- a) 404
 - i) In a linux terminal input:
curl
https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/bu-ds561-bding_bu_edu/files/(Out of bounds file index such as 99999).html
- b) 501
 - i) In a linux terminal input:
curl -X (any non-GET method such as POST)
https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/bu-ds561-bding_bu_edu/files/
 - ii) From what I understand, TRACE is blocked on Google Cloud projects, resulting in a 404.

Browser:

Go to:

https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/bu-ds561-bding_bu_edu/files/(valid file index).html

To send requests other than GET requests, use the in browser developer tools.

App 2:

Prerequisite installations: google-cloud-pubsub

To run, use the command “python DS561App2.py” in the directory that the file is in.

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Due 10/7/24

Screenshots:

Cloud logs showing 404 and 501 errors using curl:

DS561Project3App1 [Cloud Run function](#) (Deployed at Oct 6, 2024, 2:44:33 PM) URL: <https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1> [View in Cloud Run](#) [ds561project3app1](#)

METRICS DETAILS SOURCE VARIABLES TRIGGER PERMISSIONS LOGS TESTING

Logs Severity Warning Filter Search all fields and values

SEVERITY	TIMESTAMP	SUMMARY
>	2024-10-06 14:49:07.334 EDT	GET 500 326 B 100 ms Chrome 127 https://ds561project3app1-7o7cte2aba-uc.a.run.app/
>	2024-10-06 14:49:07.443 EDT	Traceback (most recent call last): File "/layers/google.python.pip/pip/lib/python3.12/site-packages/flask/app.py", line 2190, in wsgi_app response = self.full_dispatch_request()
>	2024-10-06 15:26:59.141 EDT	POST 501 146 B 2 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1
>	2024-10-06 15:28:51.362 EDT	POST 501 146 B 15 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1
>	2024-10-06 15:29:50.915 EDT	GET 404 138 B 478 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/bu-ds561-bding_bu_edu/files/99999.html
>	2024-10-06 15:37:12.286 EDT	GET 404 138 B 175 ms Firefox 130 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/bu-ds561-bding_bu_edu/files/99999.html
>	2024-10-06 15:38:11.562 EDT	GET 404 138 B 170 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/bu-ds561-bding_bu_edu/files/99999.html
>	2024-10-06 15:38:29.774 EDT	GET 500 326 B 90 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1
>	2024-10-06 15:38:29.810 EDT	Traceback (most recent call last): File "/layers/google.python.pip/pip/lib/python3.12/site-packages/flask/app.py", line 2190, in wsgi_app response = self.full_dispatch_request()
>	2024-10-06 15:38:36.859 EDT	GET 500 326 B 13 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/
>	2024-10-06 15:38:36.874 EDT	Traceback (most recent call last): File "/layers/google.python.pip/pip/lib/python3.12/site-packages/flask/app.py", line 2190, in wsgi_app response = self.full_dispatch_request()
>	2024-10-06 15:38:49.945 EDT	GET 404 138 B 118 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/bu-ds561-bding_bu_edu/files/99999.html
>	2024-10-06 15:39:02.059 EDT	POST 501 146 B 2 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1
>	2024-10-06 15:40:58.581 EDT	GET 404 138 B 176 ms curl/8.5.0 https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1/bu-ds561-bding_bu_edu/files/99999.html

(i) No newer entries found matching current filter.

Cloud logs showing 400 permission denied error:

DS561Project3App1 [Cloud Run function](#) (Deployed at Oct 6, 2024, 3:28:08 PM) URL: <https://us-central1-ds561-project-435318.cloudfunctions.net/DS561Project3App1> [View in Cloud Run](#) [ds561project3app1](#)

METRICS DETAILS SOURCE VARIABLES TRIGGER PERMISSIONS LOGS TESTING

Logs Severity Default Filter Search all fields and values

SEVERITY	TIMESTAMP	SUMMARY
>	2024-10-07 17:59:39.067 EDT	checking if request is a GET request
>	2024-10-07 17:59:39.431 EDT	GET 200 24.33 KB 171 ms Unknown https://ds561project3app1-7o7cte2aba-uc.a.run.app/bu-ds561-bding_bu_edu/files/9288.html
>	2024-10-07 17:59:39.434 EDT	COUNTRY Thailand
>	2024-10-07 17:59:39.434 EDT	checking if request is a GET request
>	2024-10-07 17:59:39.833 EDT	GET 200 47.04 KB 351 ms Unknown https://ds561project3app1-7o7cte2aba-uc.a.run.app/bu-ds561-bding_bu_edu/files/7359.html
>	2024-10-07 17:59:39.857 EDT	COUNTRY Chile
>	2024-10-07 17:59:39.857 EDT	checking if request is a GET request
>	2024-10-07 17:59:40.277 EDT	GET 200 20.46 KB 200 ms Unknown https://ds561project3app1-7o7cte2aba-uc.a.run.app/bu-ds561-bding_bu_edu/files/1970.html
>	2024-10-07 17:59:40.281 EDT	COUNTRY Tunisia
>	2024-10-07 17:59:40.281 EDT	checking if request is a GET request
>	2024-10-07 17:59:40.562 EDT	GET 200 24.82 KB 214 ms Unknown https://ds561project3app1-7o7cte2aba-uc.a.run.app/bu-ds561-bding_bu_edu/files/4544.html
>	2024-10-07 17:59:40.565 EDT	COUNTRY Guinea-Bissau
>	2024-10-07 17:59:40.565 EDT	checking if request is a GET request
>	2024-10-07 17:59:40.827 EDT	GET 400 141 B 2 ms Unknown https://ds561project3app1-7o7cte2aba-uc.a.run.app/bu-ds561-bding_bu_edu/files/6824.html
>	2024-10-07 17:59:40.829 EDT	COUNTRY Libya
>	2024-10-07 17:59:40.829 EDT	Request sent from forbidden country Libya
>	2024-10-07 17:59:40.830 EDT	GET 200 3.55 KB 197 ms Unknown https://ds561project3app1-7o7cte2aba-uc.a.run.app/bu-ds561-bding_bu_edu/files/314.html
>	2024-10-07 17:59:40.877 EDT	COUNTRY Ethiopia
>	2024-10-07 17:59:40.877 EDT	checking if request is a GET request
>	2024-10-07 17:59:41.298 EDT	GET 200 114.22 KB 182 ms Unknown https://ds561project3app1-7o7cte2aba-uc.a.run.app/bu-ds561-bding_bu_edu/files/6361.html
>	2024-10-07 17:59:41.301 EDT	COUNTRY Ukraine
>	2024-10-07 17:59:41.301 EDT	checking if request is a GET request

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Errors using Firefox Developer Tools (Browser):

← → ↺

https://us-central1-ds561-project-435318.cloudfunctions.net/D5561Project3App1/bu-ds561-bding_bu_edu/files/1.html

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Inspector Console Debugger Network Style Editor Performance Memory Storage Accessibility Application

Filter URLs

New Request Search Blocking Status Method Domain File Initiator Type Transferred Size Queued

PATCH	https://us-central1-ds561-pr...	200	GET	us-central1-ds561-project-435318.c...	1.html	document	html	94.54 kB	94.56 kB	Queued
URL Parameters			GET	us-central1-ds561-project-435318.c...	favicon.ico	FaviconLoader.sys.mic:175 (img)	html	cached	272 B	Request Timing
<input checked="" type="checkbox"/> name value		201	HEAD	us-central1-ds561-project-435318.c...	D5561Project3App1	NetUtil.sys.mis:146 (img)	html	275 B	0 B	Blocked: 0ms
Headers		201	POST	us-central1-ds561-project-435318.c...	D5561Project3App1	NetUtil.sys.mis:146 (img)	html	293 B	22 B	0ms DNS Fail
<input checked="" type="checkbox"/> name value		201	DELETE	us-central1-ds561-project-435318.c...	D5561Project3App1	NetUtil.sys.mis:146 (img)	html	293 B	22 B	0ms
Body		201	PUT	us-central1-ds561-project-435318.c...	D5561Project3App1	NetUtil.sys.mis:146 (img)	html	293 B	22 B	Connecti
payload		201	OPTIONS	us-central1-ds561-project-435318.c...	D5561Project3App1	NetUtil.sys.mis:146 (img)	html	297 B	22 B	0ms
		201	TRACE	us-central1-ds561-project-435318.c...	D5561Project3App1	NetUtil.sys.mis:146 (img)	html	1.79 kB	1.61 kB	TLS Setup
		201	PATCH	us-central1-ds561-project-435318.c...	D5561Project3App1	NetUtil.sys.mis:146 (img)	html	293 B	22 B	Sending...