

Result

[HTTP TEST]

Openfaas

```
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 537.93ms 94.01ms 844.09ms 73.03%
  Req/Sec 49.35 35.79 242.00 70.90%
55300 requests in 1.00m, 34.78MB read
Non-2xx or 3xx responses: 55300
Requests/sec: 920.19
Transfer/sec: 592.65KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://openfaas.halden.top/function/http-test
Running 1m test @ https://openfaas.halden.top/function/http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 468.98ms 75.19ms 994.37ms 66.76%
  Req/Sec 54.63 33.86 242.00 63.31%
63463 requests in 1.00m, 39.91MB read
Non-2xx or 3xx responses: 63463
Requests/sec: 1056.01
Transfer/sec: 680.11KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://openfaas.halden.top/function/http-test
Running 1m test @ https://openfaas.halden.top/function/http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 509.57ms 118.83ms 1.21s 83.92%
  Req/Sec 49.59 25.52 212.00 69.37%
58530 requests in 1.00m, 36.81MB read
Non-2xx or 3xx responses: 58530
Requests/sec: 973.89
Transfer/sec: 627.24KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://openfaas.halden.top/function/http-test
Running 1m test @ https://openfaas.halden.top/function/http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 466.72ms 77.21ms 960.84ms 69.58%
  Req/Sec 54.11 28.74 242.00 72.70%
63865 requests in 1.00m, 40.17MB read
Non-2xx or 3xx responses: 63865
Requests/sec: 1062.68
Transfer/sec: 684.40KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://openfaas.halden.top/function/http-test
Running 1m test @ https://openfaas.halden.top/function/http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 489.33ms 74.74ms 1.62s 73.38%
  Req/Sec 54.50 38.59 284.00 73.28%
60935 requests in 1.00m, 38.33MB read
Non-2xx or 3xx responses: 60935
Requests/sec: 1013.94
Transfer/sec: 653.03KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://openfaas.halden.top/function/http-test
Running 1m test @ https://openfaas.halden.top/function/http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 498.15ms 89.56ms 1.58s 72.99%
  Req/Sec 51.50 31.92 242.00 76.30%
59961 requests in 1.00m, 37.71MB read
Non-2xx or 3xx responses: 59961
Requests/sec: 997.99
Transfer/sec: 642.73KB
```

Azure Functions

```
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
Running 1m test @ https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 240.34ms 242.89ms 1.99s 88.75%
  Req/Sec 129.08 41.56 450.00 69.30%
151961 requests in 1.00m, 15.53MB read
Socket errors: connect 0, read 0, write 0, timeout 59
Non-2xx or 3xx responses: 151961
Requests/sec: 2528.64
Transfer/sec: 264.54KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
Running 1m test @ https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 185.63ms 199.68ms 1.53s 86.76%
  Req/Sec 179.86 55.13 540.00 69.77%
212159 requests in 1.00m, 20.04MB read
Non-2xx or 3xx responses: 212159
Requests/sec: 3530.50
Transfer/sec: 341.45KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
Running 1m test @ https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 211.24ms 255.47ms 1.96s 85.14%
  Req/Sec 192.19 67.42 790.00 67.61%
226099 requests in 1.00m, 21.35MB read
Non-2xx or 3xx responses: 226099
Requests/sec: 3762.45
Transfer/sec: 363.75KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
Running 1m test @ https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 195.35ms 240.33ms 2.00s 84.45%
  Req/Sec 206.95 81.84 565.00 67.15%
243545 requests in 1.00m, 22.99MB read
Socket errors: connect 0, read 0, write 0, timeout 221
Non-2xx or 3xx responses: 243545
Requests/sec: 4052.31
Transfer/sec: 391.78KB
root@yfliu:/home/jasondennis12138/wrk# ./wrk -c 500 -t 20 -d 60 -s test.lua https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
Running 1m test @ https://performance-test-01.azurewebsites.net/api/HttpTrigger-http-test
20 threads and 500 connections
Thread Stats Avg Stdev Max +/- Stdev
  Latency 150.62ms 165.25ms 1.56s 87.10%
  Req/Sec 219.91 56.73 700.00 68.01%
258701 requests in 1.00m, 24.42MB read
Non-2xx or 3xx responses: 258701
Requests/sec: 4304.62
Transfer/sec: 416.17KB
```

Results

	1st	2ed	3th	4th	5th	Average
Azure Functions Throughput (RPS)	2528.64	3530.50	3762.45	4052.31	4304.62	3635.704
OpenFaas Throughput (RPS)	1056.01	973.89	1062.68	1013.94	997.99	1020.902

Matrix multiplication

OpenFaas

PerformanceTest / New Request

Save

POST

https://openfaas.halden.top/function/martix-test?size=400&generation=20

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description		Bulk Edit
<input checked="" type="checkbox"/>	size	400			
<input checked="" type="checkbox"/>	generation	20			
	Key	Value	Description		

Body

Cookies

Headers (13)

Test Results

Status: 200 OK

Time: 7.05 s

Size: 740 B

Save Response

Pretty

Raw

Preview

Visualize

Text

1

```
[{"code=0, desc=163.7ms"}]
```

Azure Function

PerformanceTest / averageMatrixMultiplicationTest

Save

POST

https://performance-test-01.azurewebsites.net/api/HttpTrigger-average-matrix-multiplication-test?generation=20&size=400

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description		Bulk Edit
<input checked="" type="checkbox"/>	generation	20			
<input checked="" type="checkbox"/>	size	400			
	Key	Value	Description		

Body

Cookies

Headers (4)

Test Results

Status: 200 OKTime: 1 m 37.62 sSize: 179 BSave Response

Pretty

Raw

Preview

Visualize

Text

1

2

3

4

"code": 0,

"desc": "2338.9ms"

Result

	Size	Generation	Time Used(ms)
OpenFaas	400	20	163.7
Azure Function	400	20	2338.9

Kafka consume Test

Azure Function

POST New

POST random

POST average

POST Kafka

POST file

POST New

POST New

GET New

No Environment

PerformanceTest / Kafka

Save

POST

https://performance-test-01.azurewebsites.net/api/HttpTrigger-kafka-consume-test?totalMessage=100000

Send

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettingsCookies

Query Params

	Key	Value	Description		Bulk Edit
<input checked="" type="checkbox"/>	totalMessage	100000			
	Key	Value	Description		

BodyCookiesHeaders (4)Test Results

Status: 200 OKTime: 2 m 11.52 sSize: 226 BSave Response

PrettyRawPreviewVisualizeText

```
1 {
2   "code": 0,
3   "desc": "Total time taken to consume 100000 messages is 131173ms"
4 }
```

RunnerTrash

OpenFaas

POST NewPOST randomPOST averagePOST KafkaPOST filePOST NewPOST NewGET New

No Environment

PerformanceTest / Kafka

Save

POSThttps://openfaas.halden.top/function/kafka-test?totalMessages=100000

Send

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettingsCookies

Query Params

	Key	Value	Description		Bulk Edit
<input checked="" type="checkbox"/>	totalMessages	100000			
	Key	Value	Description		

BodyCookiesHeaders (5)Test Results

Status: 200 OKTime: 6.49 sSize: 237 BSave Response

PrettyRawPreviewVisualizeJSON

1

2

3

4

"code": 0,

"desc": "Total time taken to consume 100000 messages is 5931ms"

Result

	Message Consumed	Time Used(ms)
OpenFaas	100000	5931
Azure Function	100000	131173