

Lab2 Benchmark Results

Maximum number of connections that can be handled by the server before any connection drops: ~2500

Maximum number of requests per second (RPS) that can be sustained by the server when operating with maximum number of connections: 717.24/sec (mean)

Average response time or latency per request: 1394ms

99 percentile response time or latency per request: 3450ms

Utilization of CPU, memory, disk IO, and network when max performance is sustained (dstat):

----total-cpu-usage----							-----memory-usage-----				-dsk/total-		-net/total-			
usr	sys	idl	wai	hiq	siq		used	buff	cach	free		read	writ		recv	send
0	0	99	0	0	0		410M	136M	225M	222M		11k	117k		0	0
0	0	100	0	0	0		410M	136M	225M	222M		0	0		260B	1206B
0	0	100	0	0	0		410M	136M	225M	222M		0	0		104B	460B
47	8	37	0	0	7		412M	136M	228M	217M		8192B	0		967k	1321k
78	17	0	0	0	5		414M	137M	231M	211M		0	0		788k	2028k
48	4	45	0	0	2		415M	137M	233M	207M		0	0		181k	1114k
35	7	57	0	0	1		416M	137M	235M	204M		0	0		222k	905k
0	0	100	0	0	0		416M	137M	235M	204M		0	0		52B	358B
0	0	100	0	0	0		416M	137M	235M	204M		0	0		104B	460B
0	0	95	5	0	0		417M	137M	235M	204M		0	34M		52B	358B
0	0	100	0	0	0		417M	137M	235M	204M		0	0		52B	366B
0	0	100	0	0	0		416M	137M	235M	204M		0	0		104B	460B

Full AB Run Results:

"""

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Benchmarking ec2-34-237-5-126.compute-1.amazonaws.com (be patient)

Completed 250 requests

Completed 500 requests

Completed 750 requests

Completed 1000 requests

Completed 1250 requests

Completed 1500 requests

Completed 1750 requests

Completed 2000 requests

Completed 2250 requests

Completed 2500 requests

Finished 2500 requests

Server Software:

Server Hostname: ec2-34-237-5-126.compute-1.amazonaws.com

Server Port: 80

Document Path: /?keywords=helloworld+foo+bar

Document Length: 1560 bytes

Concurrency Level: 2500

Time taken for tests: 3.486 seconds
Complete requests: 2500
Failed requests: 0
Total transferred: 4430000 bytes
HTML transferred: 3900000 bytes
Requests per second: 717.24 [#/sec] (mean)
Time per request: 3485.570 [ms] (mean)
Time per request: 1.394 [ms] (mean, across all concurrent requests)
Transfer rate: 1241.17 [Kbytes/sec] received

Connection Times (ms)

	min	mean[+/-sd]	median	max
Connect:	0	159 285.6	99	1048
Processing:	111	1210 1055.1	985	3330
Waiting:	111	1210 1055.1	985	3330
Total:	134	1369 1081.2	1394	3466

Percentage of the requests served within a certain time (ms)

50%	1394
66%	1801
75%	2094
80%	2563
90%	3029
95%	3180
98%	3426
99%	3450
100%	3466 (longest request)

"""