Lab3 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: 689.56/sec (mean)

Average response time or latency per request: 1.450ms

99 percentile response time or latency per request: 3584ms

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

	-tota	al-c	ou-us	sage-			-memory-	-usage-		-dsk/t	cotal	-net/t	otal-
usr	sys	idl	wai	hiq	siq	used	buff	cach	free	read	writ	recv	send
0	0	100	0	0	0	154M	105M	367M	366M	1155B	4051B	0	0
0	0	100	0	0	0	154M	105M	367M	366M	0	0	260B	1206B
0	0	100	0	0	0	154M	105M	367M	366M	0	0	104B	460B
0	1	99	0	0	0	154M	105M	367M	366M	0	0	104B	460B
0	0	100	0	0	0	154M	105M	367M	366M	0	0	104B	460B
0	1	99	0	0	0	154M	105M	367M	366M	0	0	24k	29k
72	12	8	0	0	8	157M	106M	369M	360M	0	0	876k	566k
83	10	2	0	0	5	159M	106M	373M	355M	8192B	0	619k	549k
60	10	26	0	0	4	161M	106M	375M	350M	0	0	205k	373k
17	2	80	0	0	1	162M	106M	376M	348M	0	0	52k	105k
3	2	94	0	0	1	162M	106M	376M	348M	0	0	63k	63k
1	0	98	1	0	0	162M	106M	376M	348M	0	8072k	52B	358B
0	0	100	0	0	0	162M	106M	376M	348M	0	0	104B	460B
0	0	100	0	0	0	162M	106M	376M	348M	0	0	104B	460B
0	1	99	0	0	0	162M	106M	376M	348M	0	0	104B	460B
0	0	100	0	0	0	162M	106M	376M	348M	0	0	104B	460B
0	1	99	0	0	0	162M	106M	376M	348M	0	0	104B	460B

Full AB Run Results:

This is ApacheBench, Version 2.3 <\$Revision: 1706008 \$>

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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: /search?keywords=toronto

Document Length: 0 bytes

Concurrency Level: 2500

Time taken for tests: 3.625 seconds

Complete requests: 2500

Failed requests: 0

Non-2xx responses: 2500

Total transferred: 762500 bytes HTML transferred: 0 bytes

Requests per second: 689.56 [#/sec] (mean) Time per request: 3625.495 [ms] (mean)

Time per request: 1.450 [ms] (mean, across all concurrent requests)

Transfer rate: 205.39 [Kbytes/sec] received

Connection Times (ms)

min mean[+/-sd] median max Connect: 0 341 409.5 203 1188 Processing: 125 1207 984.6 989 3315 Waiting: 125 1207 984.7 989 3315 Total: 144 1548 1043.4 1614 3609

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

50% 1614

66% 2074

75% 2311

80% 2475

90% 3020

95% 3316

98% 3447

99% 3584

100% 3609 (longest request)