Analysis Report

Consecutive Full GC

Our analysis tells that Full GCs are consecutively running in your application. It might cause intermittent OutOfMemoryErrors or degradation in response time or high CPU consumption or even make application unresponsive.

Read our recommendations to resolve consecutive Full GCs

JVM Heap Size

Allocated Size: : 491 mb

Peak Size: : 393 mb

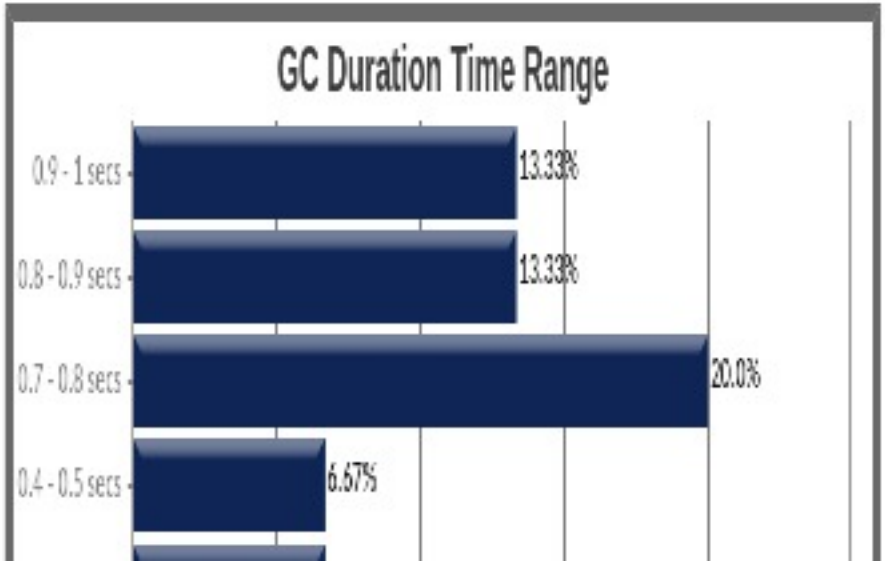
Key Performance Indicators

Important section of the report. To learn more about KPIs, click here!

1 Throughput: : 97.39%

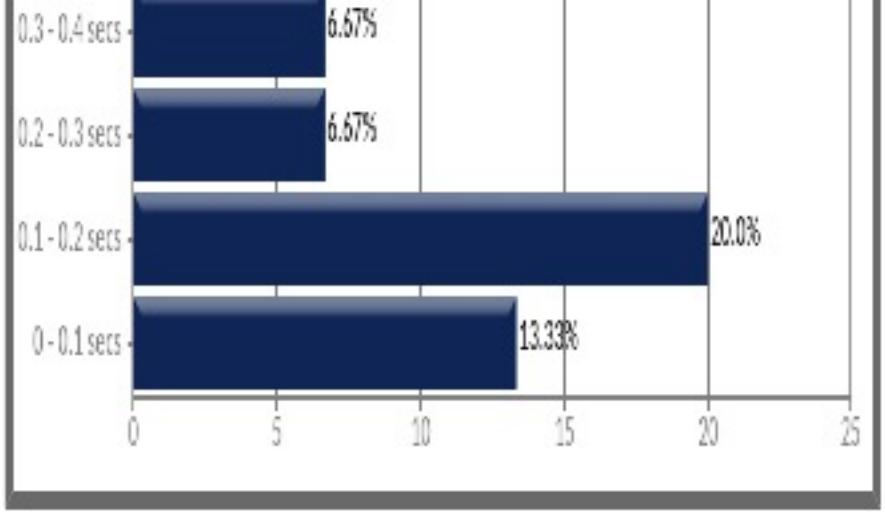
2 Latency:

Avg Pause GC Time	501 ms
Max Pause GC Time	932 ms



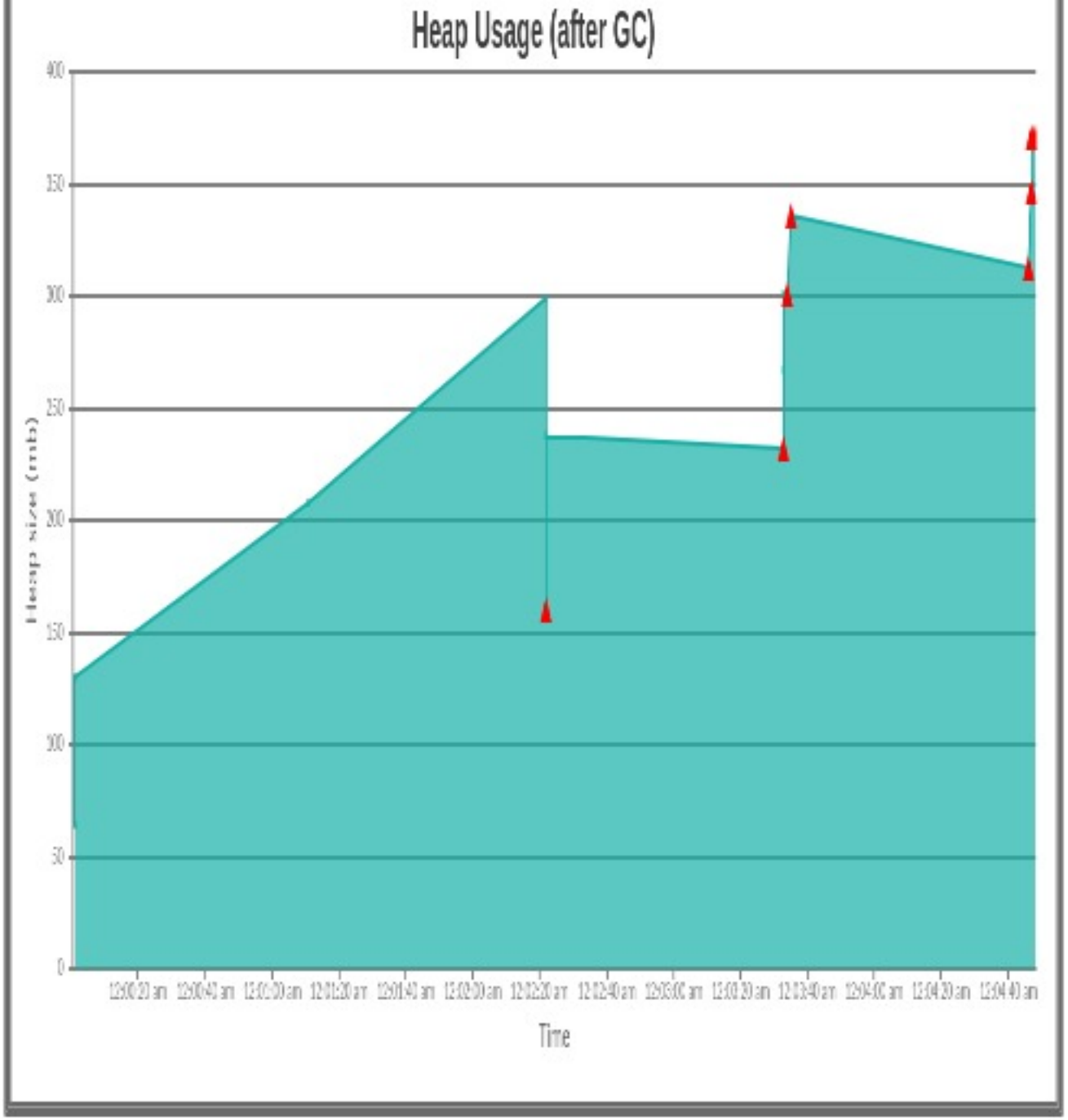
GC Pause Duration Time Range

Duration (secs)	No. of GCs	Percentage
0 - 0.1	2	13.333%
0.1 - 0.2	3	33.333%
0.2 - 0.3	1	40.0%
0.3 - 0.4	1	46.667%
0.4 - 0.5	1	53.333%
0.7 - 0.8	3	73.333%
0.8 - 0.9	2	86.667%
0.9 - 1	2	100.0%

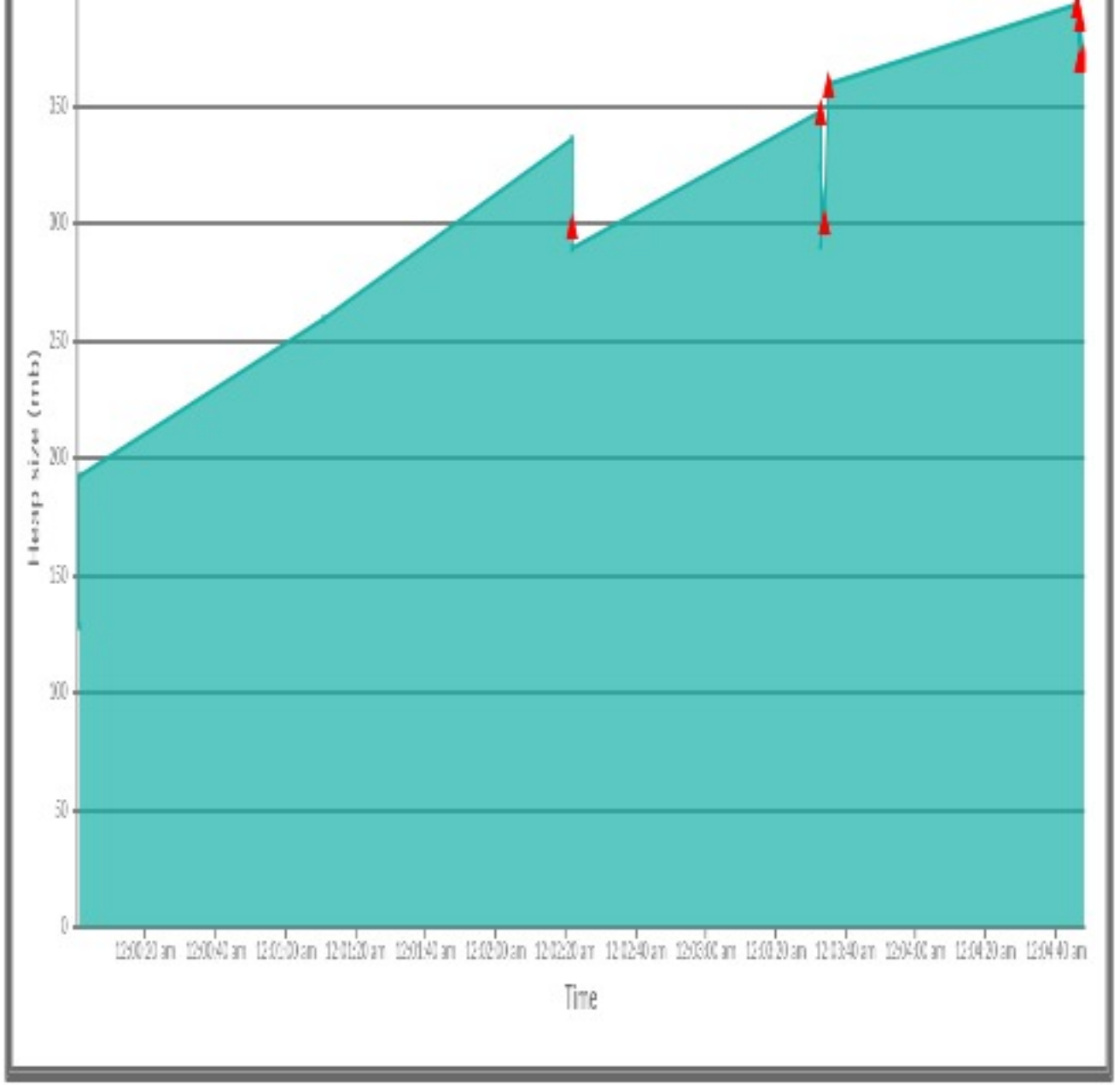


Interactive Graphs

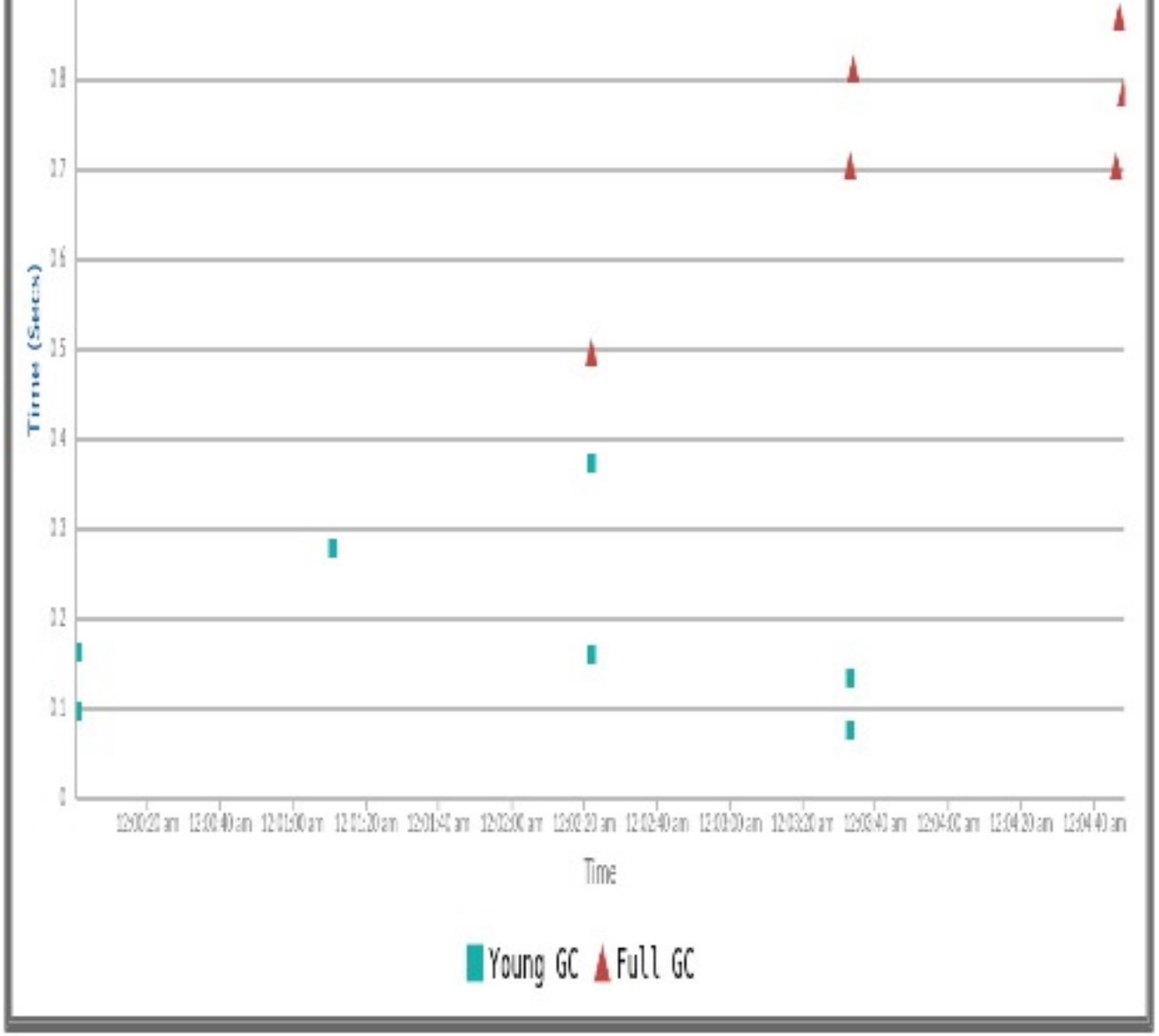
(All graphs are zoomable)

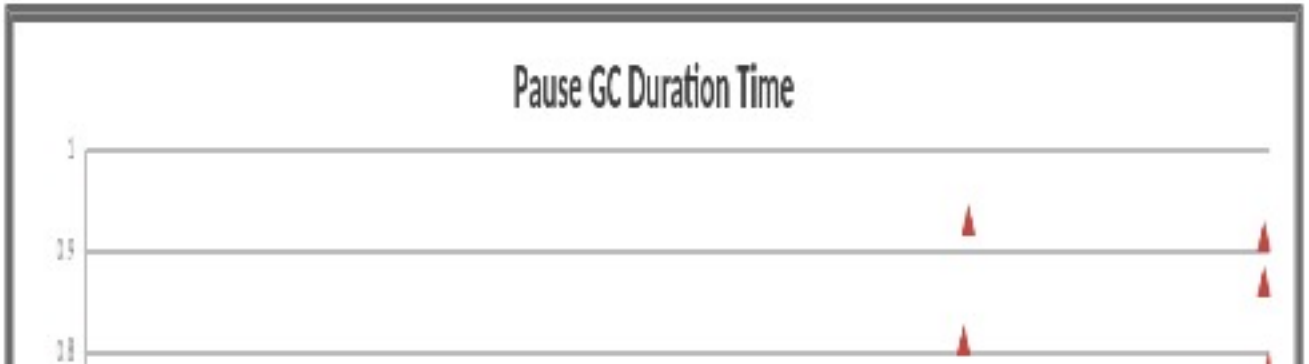

Heap Usage (after GC)
400
350
300
250
200
150
100
50
0
Heap size (mb)
12:00:20 am
12:00:40 am
12:01:00 am
12:01:20 am
12:01:40 am
12:02:00 am
12:02:20 am
12:02:40 am
12:03:00 am
12:03:20 am
12:03:40 am
12:04:00 am
12:04:20 am
12:04:40 am
Time

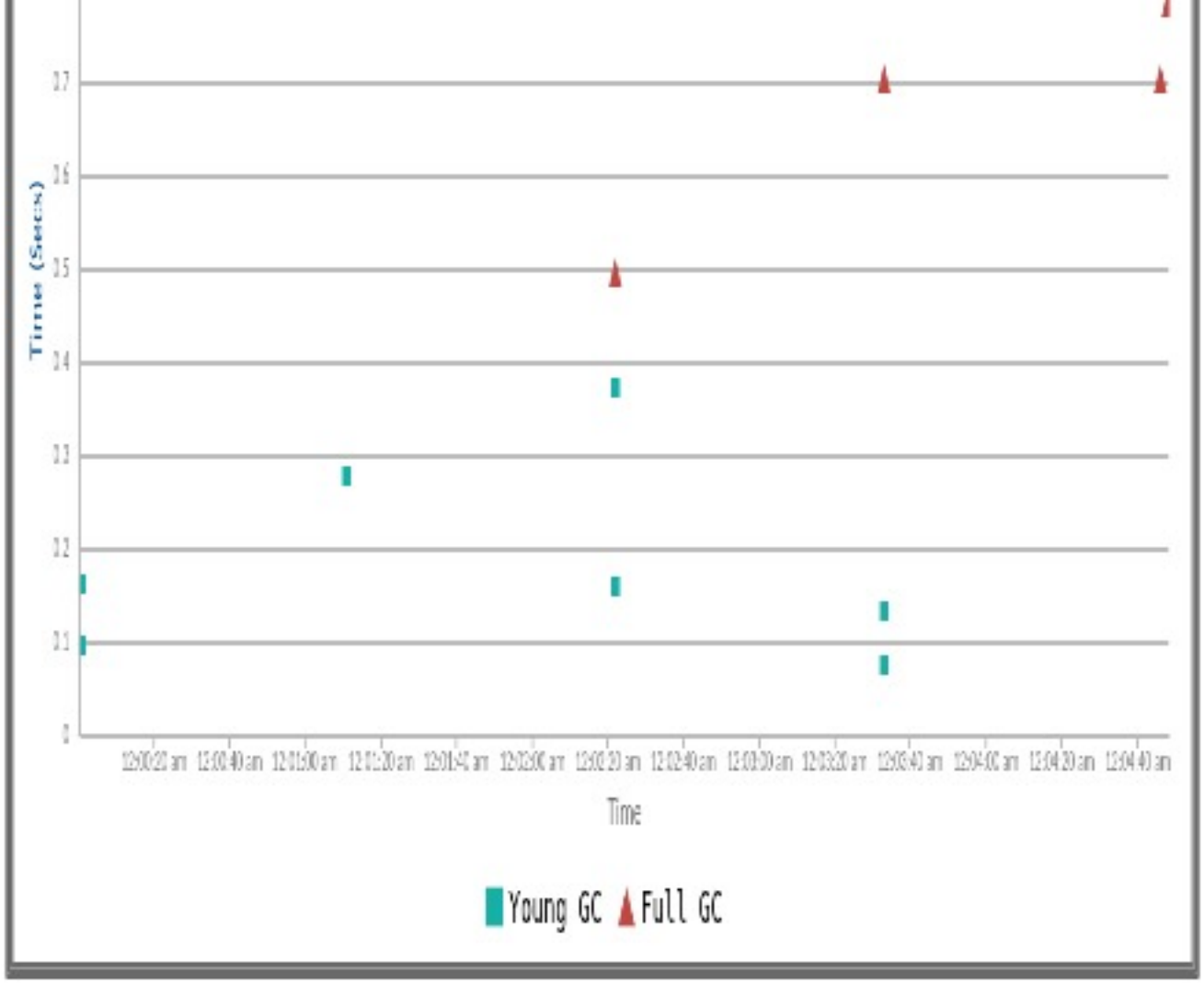

Heap Usage (before GC)
400

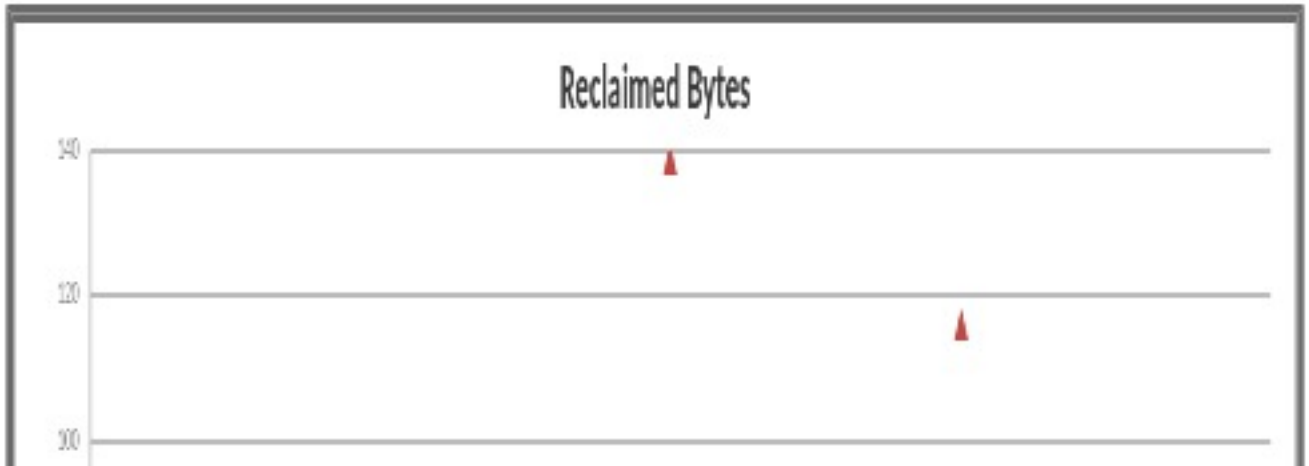

Heap size (mb)
350
300
250
200
150
100
50
0
12:00:20 am
12:00:40 am
12:01:00 am
12:01:20 am
12:01:40 am
12:02:00 am
12:02:20 am
12:02:40 am
12:03:00 am
12:03:20 am
12:03:40 am
12:04:00 am
12:04:20 am
12:04:40 am
Time

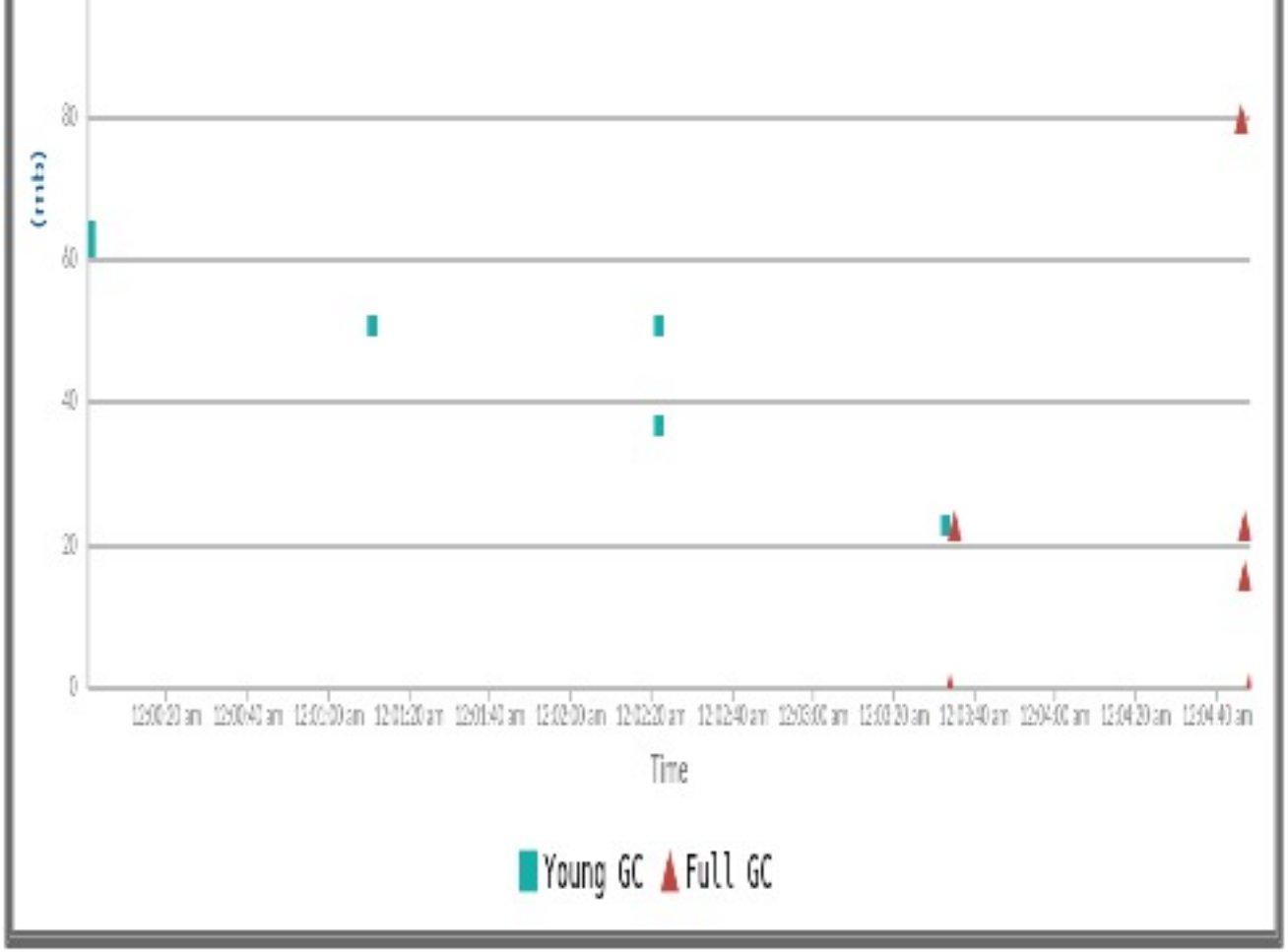

GC Duration Time
1
2.5


Time (Secs)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
12:00:22 am
12:00:40 am
12:01:00 am
12:01:20 am
12:01:40 am
12:02:00 am
12:02:20 am
12:02:40 am
12:03:00 am
12:03:20 am
12:03:40 am
12:04:00 am
12:04:20 am
12:04:40 am
Time
Young GC
Full GC

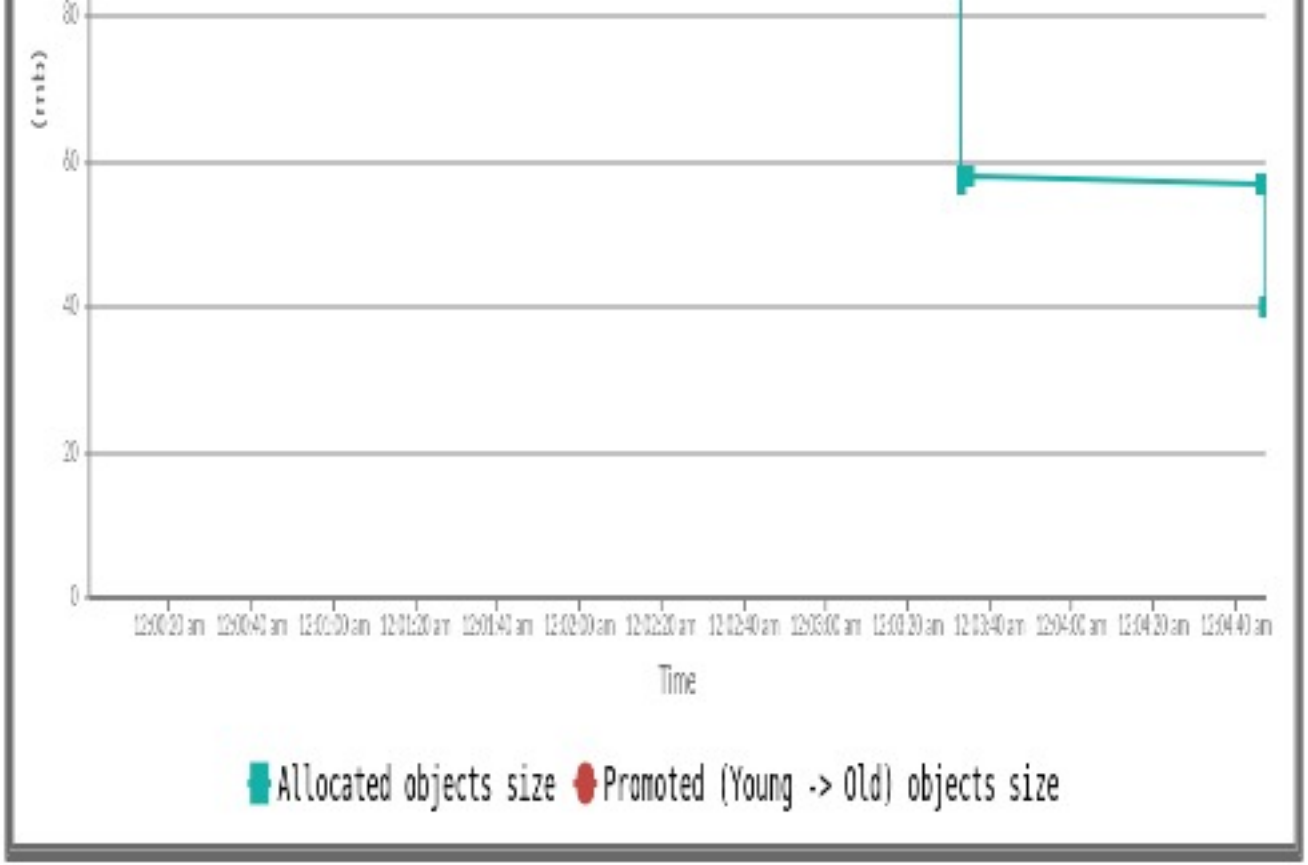

Pause GC Duration Time
1
0.9
0.8


Time (Secs)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
12:00:20 am
12:00:40 am
12:01:00 am
12:01:20 am
12:01:40 am
12:02:00 am
12:02:20 am
12:02:40 am
12:03:00 am
12:03:20 am
12:03:40 am
12:04:00 am
12:04:20 am
12:04:40 am
Time
Young GC
Full GC

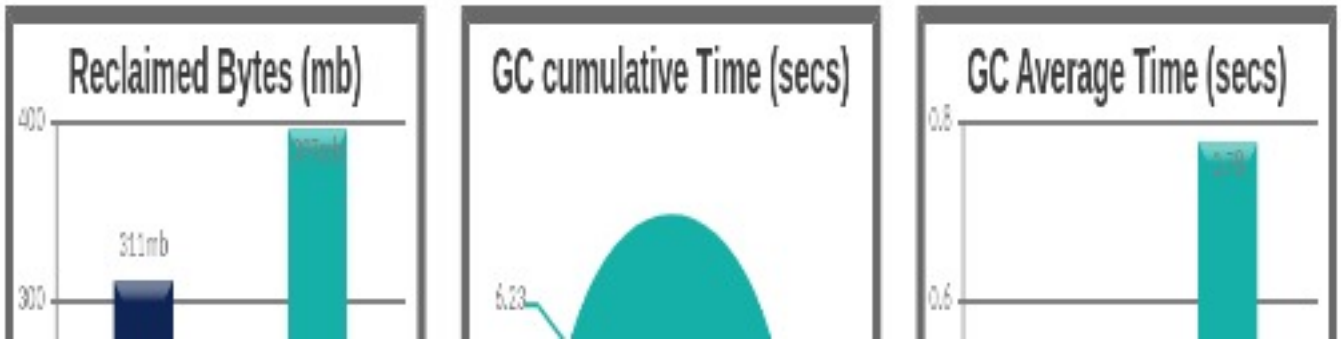

Reclaimed Bytes
140
120
100

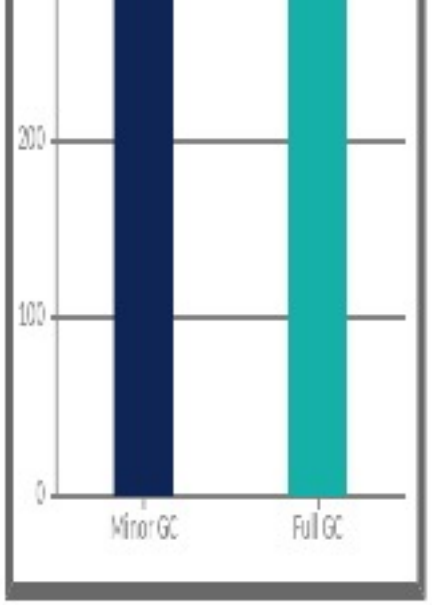

80
60
40
20
0
Time
Young GC
Full GC

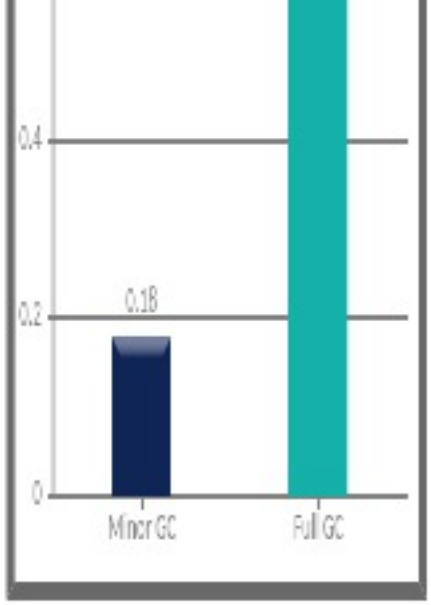

Allocation & Promotion
140
120
100



GC Statistics







Total GC stats

Total GC count	15
Total reclaimed bytes	708 mb
Total GC time	7 sec 511 ms
Avg GC time	501 ms
GC avg time std dev	319 ms
GC min/max time	76 ms / 932 ms
GC interval avg time	20 sec 555 ms

Minor GC stats

Minor GC count	7
Minor GC reclaimed	311 mb
Minor GC total time	1 sec 285 ms
Minor GC avg time	184 ms
Minor GC avg time std dev	95 ms
Minor GC min/max time	76 ms / 374 ms
Minor GC Interval avg	35 sec 450 ms

Full GC stats

Full GC Count	8
Full GC reclaimed	397 mb
Full GC total time	6 sec 225 ms
Full GC avg time	778 ms
Full GC avg time std dev	134 ms
Full GC min/max time	496 ms / 932 ms
Full GC Interval avg	20 sec 887 ms

GC Pause Statistics

Pause Count	15
Pause total time	7 sec 511 ms
Pause avg time	501 ms
Pause avg time std dev	0.0
Pause min/max time	76 ms / 932 ms

Object Stats

(These are perfect micro-metrics to include in your performance reports)

Total created bytes	1.05 gb
Total promoted bytes	n/a
Avg creation rate	3.75 mb/sec
Avg promotion rate	n/a

Memory Leak

No major memory leaks.

(**Note:** there are 8 flavours of OutOfMemoryErrors. With GC Logs you can diagnose only 5 flavours of them(Java heap space, GC overhead limit exceeded, Requested array size exceeds VM limit, Permgen space, Metaspace). So in other words, your application could be still suffering from memory leaks, but need other tools to diagnose them, not just GC Logs.)

Long Pause

None.

Safe Point Duration

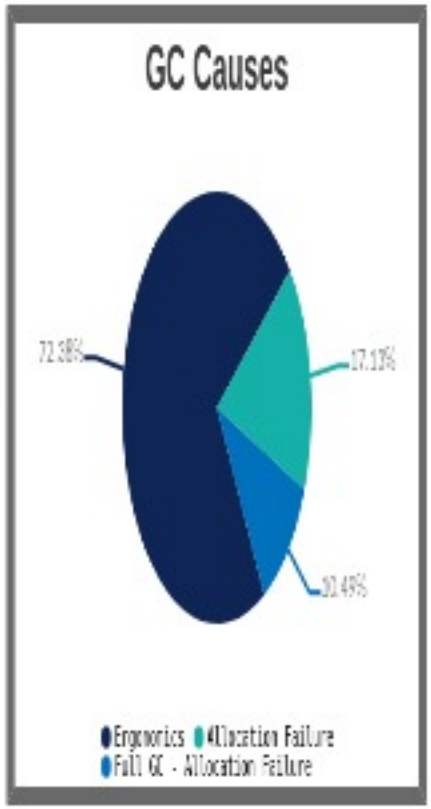
(To learn more about SafePoint duration, click here)

Not Reported in the log.

GC Causes

(What events caused the GCs, how much time it consumed?)

Cause	Count	Avg Time	Max Time	Total Time	Time %
Ergonomics	7	777 ms	932 ms	5 sec 437 ms	72.39%
Allocation Failure	7	184 ms	374 ms	1 sec 286 ms	17.13%
Full GC - Allocation Failure	1	788 ms	788 ms	788 ms	10.49%
Total	15	n/a	n/a	7 sec 511 ms	100.01%



Tenuring Summary

Not reported in the log.

Command Line Flags

Not reported in the log.