Gatling Documentation Try Gatling Enterprise

RecordedSimulation

Global Details

Max Limit Performance Test Analysis

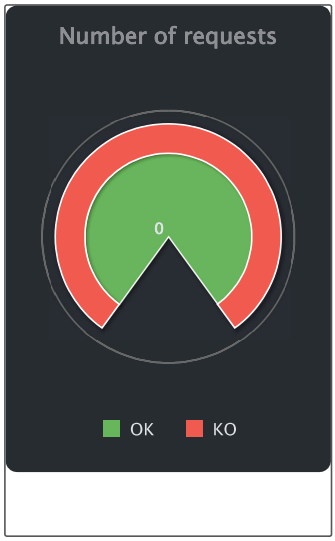
This **Max Limit** test gradually increased the load in order to identify the maximum system capacity before service degradation occurs.

Up to the saturation point, the application maintained stable response times, with successful requests showing acceptable latency (p95 ≈ 2 seconds).

As the request rate approached ~6.6K requests per second, the failure rate increased significantly, and extreme response times appeared at the tail.

This behavior indicates that while the application logic remained responsive, many requests failed before being fully processed.

The system reached a **hard infrastructure limit** (Tomcat / OS), where connection backlogs, thread pools, or network limits were exhausted, resulting in **connection refused** and **connection timeout** errors.



Gatling Version

Version: 3.10.4

Released: 2024-02-19

Run Information

Date: 2026-01-19 18:59:21 GMT

Duration: 11m 16s

Description: —

Assertions

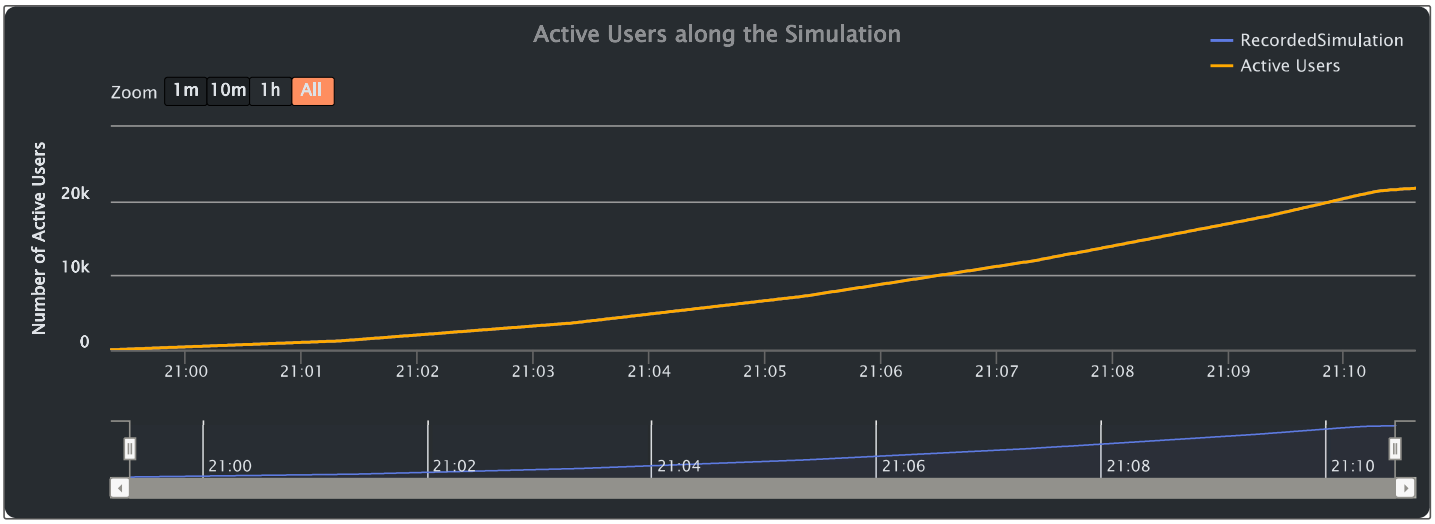
Assertion	Status
Global: percentage of failed events is less than 1.0	**KO**
Global: 95th percentile of response time is less than 2000.0	**OK**

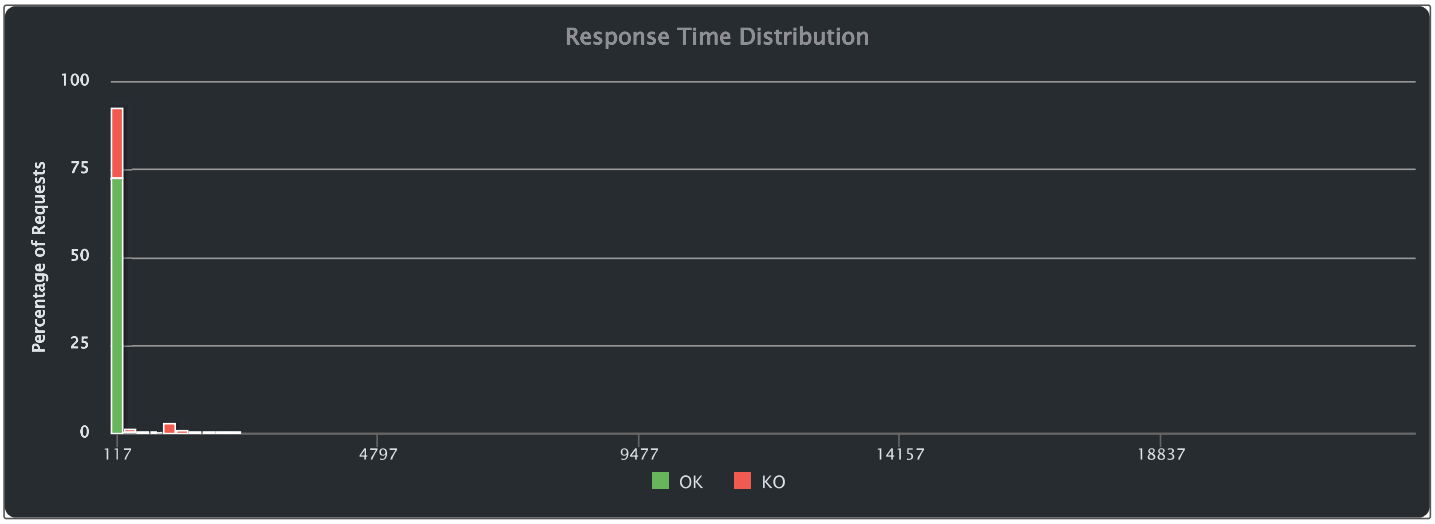
Expand all groups Collapse all groups

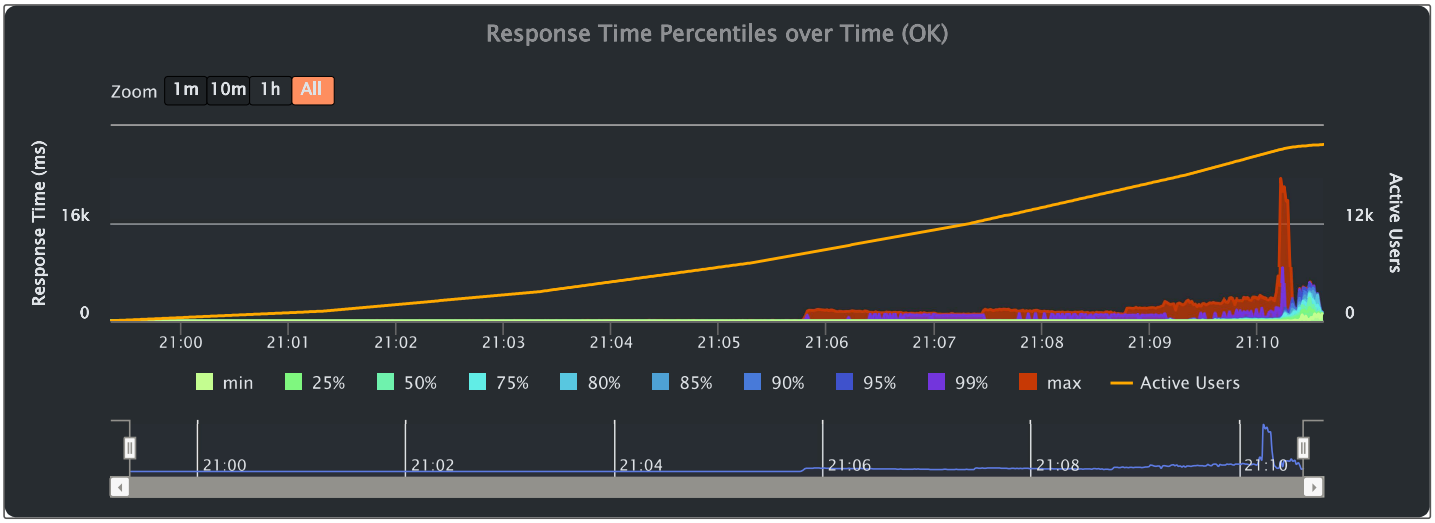
Requests	Executions					Response Time (ms)							
	Total	OK	KO	% KO	Cnt/s	Min	50th pct	75th pct	95th pct	99th pct	Max	Mean	Std Dev
All Requests	**4474950**	**3305437**	**1169513**	**26%**	6609.97	0	7	20	1013	2020	23400	113	497
request_0	**4474950**	**3305437**	**1169513**	**26%**	6609.97	0	7	20	1013	2020	23400	113	497

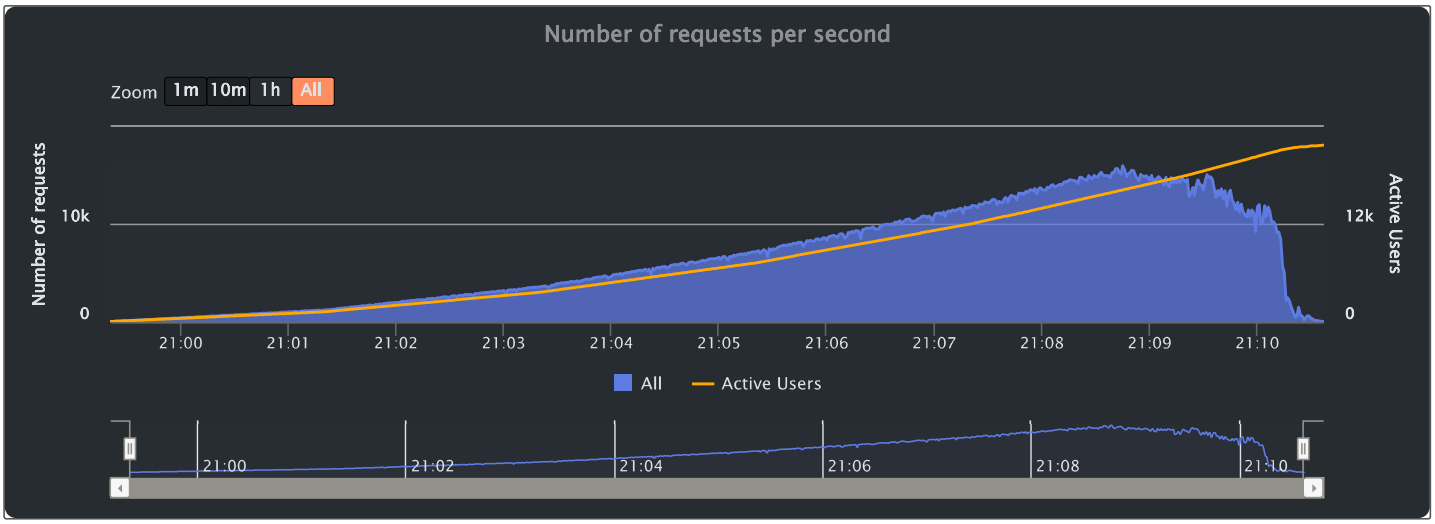
Errors

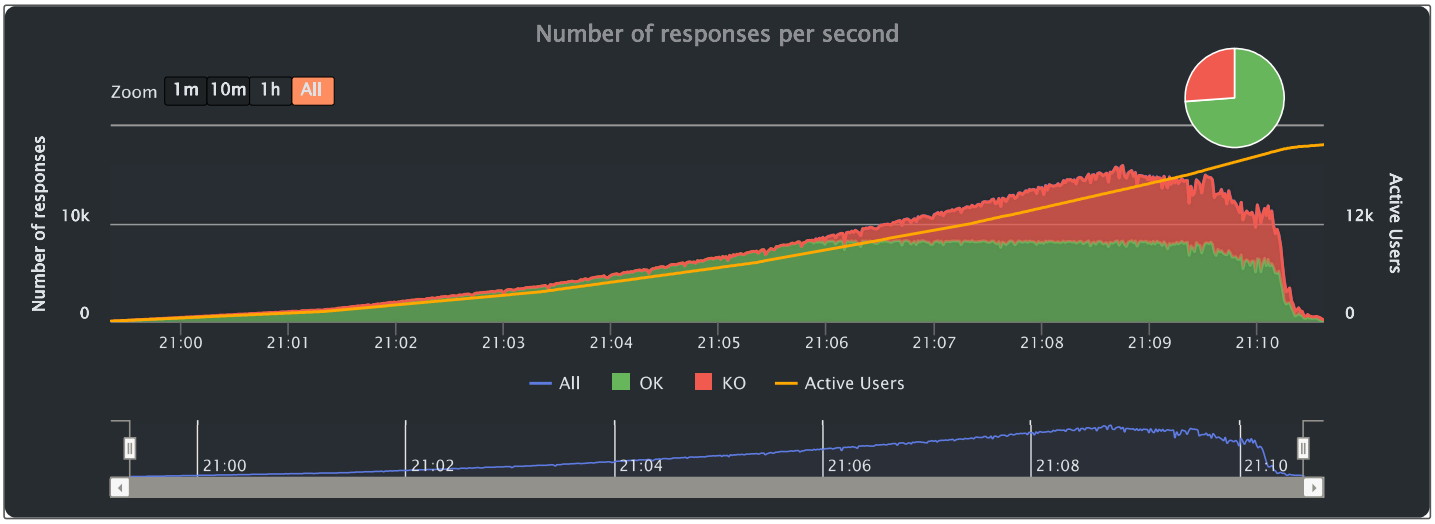
Error	Count	Percentage
j.n.ConnectException: Connection refused: getsockopt	**1095026**	**93.631 %**
j.n.ConnectException: Connection timed out: getsockopt	**74487**	**6.369 %**


Active Users along the Simulation
RecordedSimulation
Active Users
Zoom
1m
10m
1h
All
Number of Active Users
20k
10k
0
21:00
21:01
21:02
21:03
21:04
21:05
21:06
21:07
21:08
21:09
21:10


Response Time Distribution
Percentage of Requests
100
75
50
25
0
117
4797
9477
14157
18837
OK
KO


Response Time Percentiles over Time (OK)
Zoom
1m
10m
1h
All
Response Time (ms)
16k
0
Active Users
12k
0
21:00
21:01
21:02
21:03
21:04
21:05
21:06
21:07
21:08
21:09
21:10
min
25%
50%
75%
80%
85%
90%
95%
99%
max
Active Users


Number of requests per second
Zoom
1m
10m
1h
All
Number of requests
10k
0
Active Users
12k
0
21:00
21:01
21:02
21:03
21:04
21:05
21:06
21:07
21:08
21:09
21:10
All
Active Users


Number of responses per second
Zoom
1m
10m
1h
All
Number of responses
10k
0
Active Users
12k
0
21:00
21:01
21:02
21:03
21:04
21:05
21:06
21:07
21:08
21:09
21:10
All
OK
KO
Active Users

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Global Details

Stats

Executions

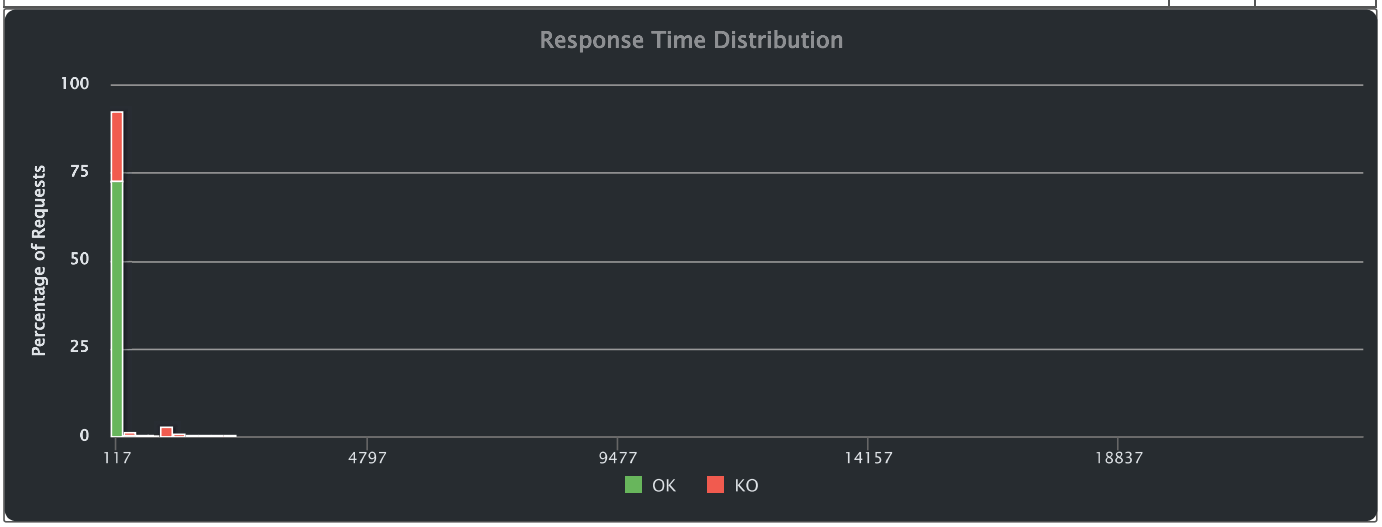
	Total	OK	KO
Total count	4474950	3305437	1169513
Mean count/s	6609.97	4882.477	1727.493

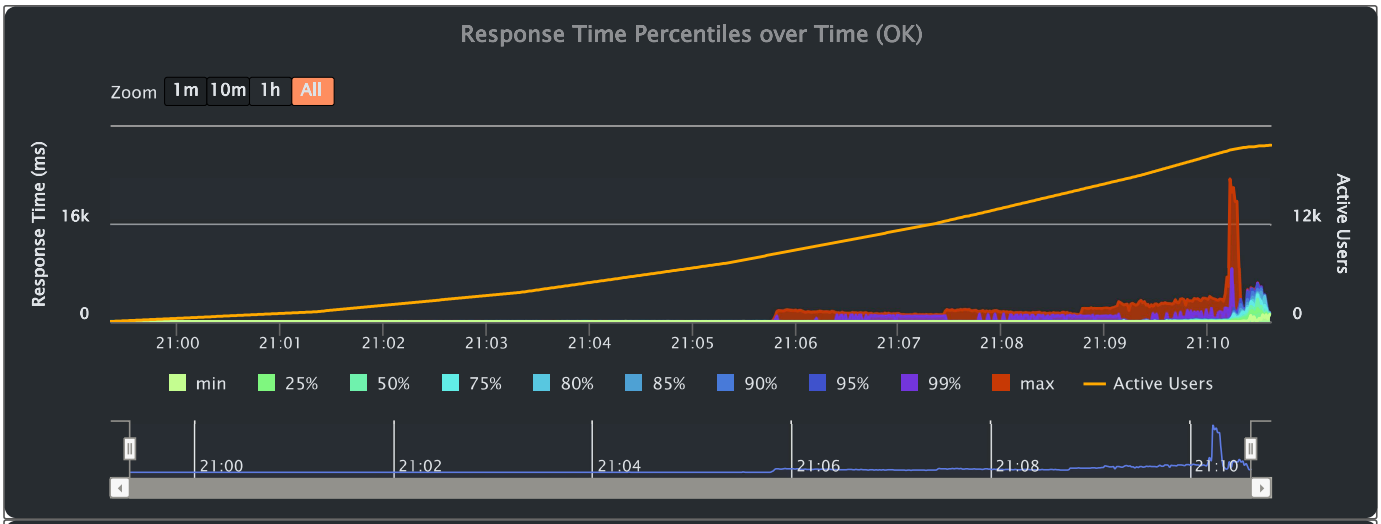
Response Time (ms)

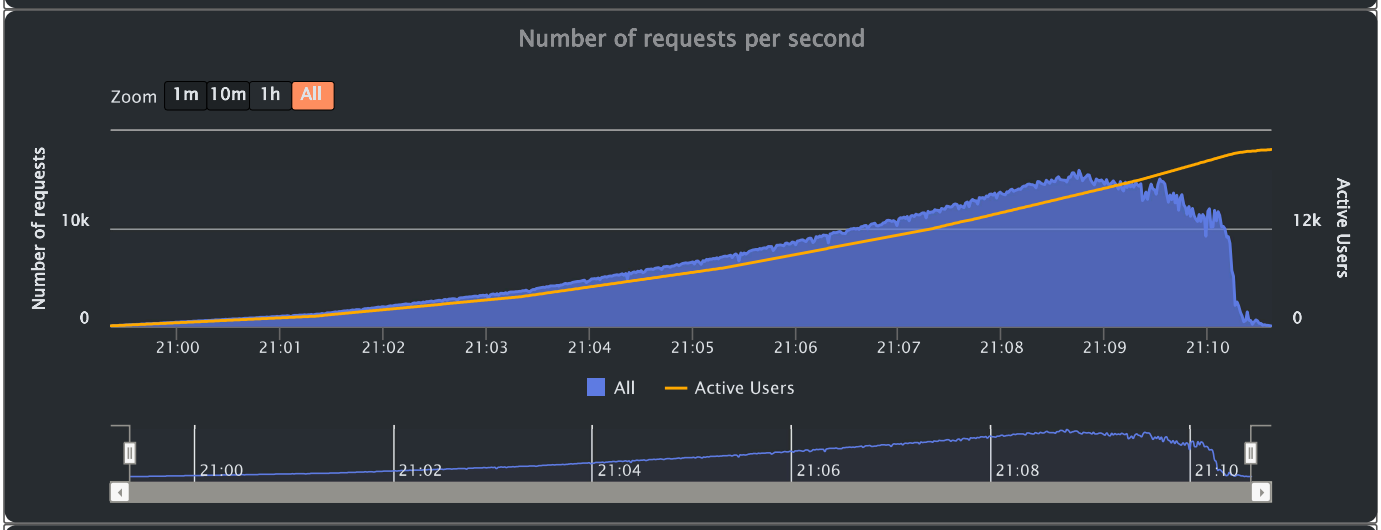
	Total	OK	KO
Min	0	0	0
50th percentile	7	5	23
75th percentile	20	12	162
95th percentile	1013	93	1616
99th percentile	2020	494	2779
Max	23400	23400	21082
Mean	113	30	346
Standard Deviation	497	175	885

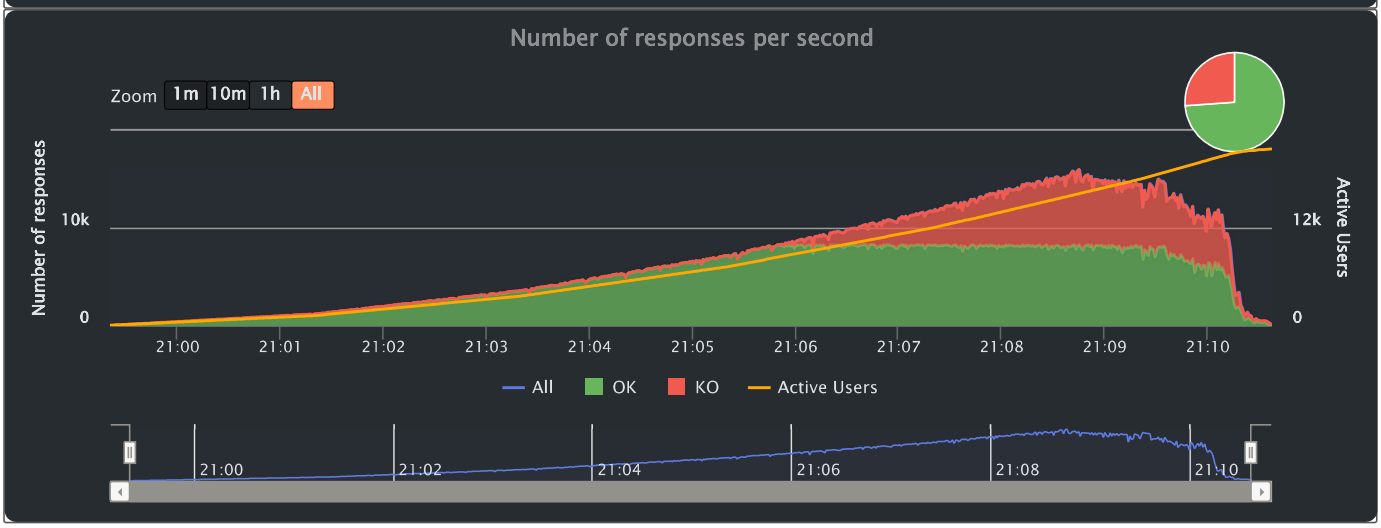
Errors

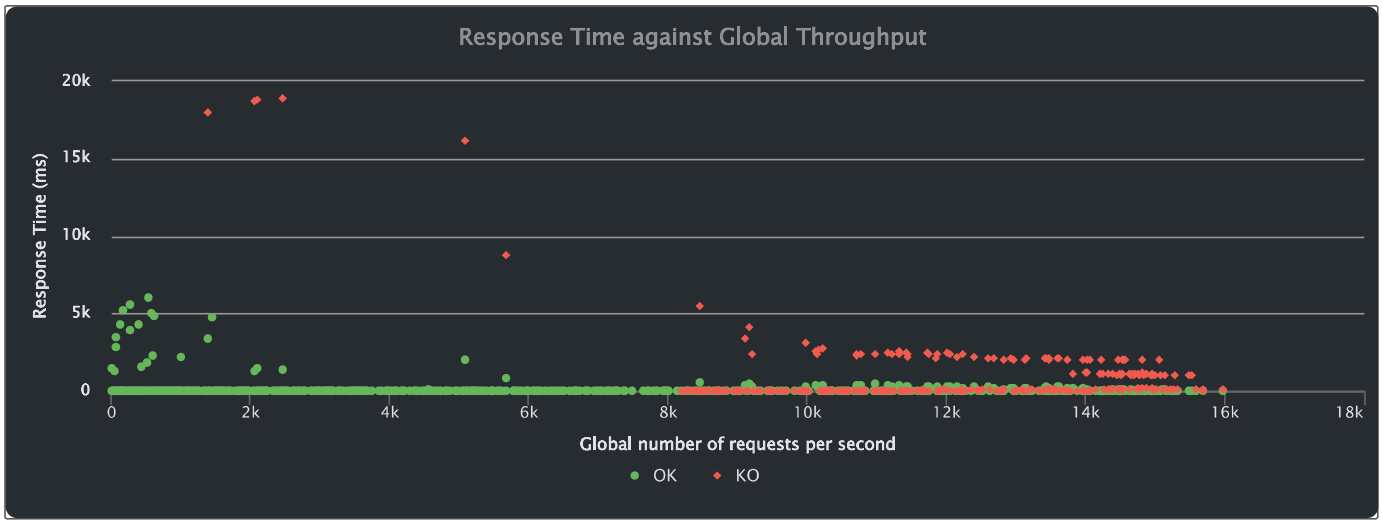
Error	Count	Percentage
j.n.ConnectException: Connection refused: getsockopt	1095026	93.631 %
j.n.ConnectException: Connection timed out: getsockopt	74487	6.369 %




Response Time Percentiles over Time (OK)
Zoom 1m 10m 1h All
Response Time (ms)
16k
0
Active Users
12k
0
21:00 21:01 21:02 21:03 21:04 21:05 21:06 21:07 21:08 21:09 21:10
min 25% 50% 75% 80% 85% 90% 95% 99% max Active Users
21:00 21:02 21:04 21:06 21:08 21:10


Number of requests per second
Zoom 1m 10m 1h All
Number of requests
10k
0
Active Users
12k
0
21:00 21:01 21:02 21:03 21:04 21:05 21:06 21:07 21:08 21:09 21:10
All Active Users
21:00 21:02 21:04 21:06 21:08 21:10


Number of responses per second
Zoom 1m 10m 1h All
Number of responses
10k
0
Active Users
12k
0
21:00 21:01 21:02 21:03 21:04 21:05 21:06 21:07 21:08 21:09 21:10
All OK KO Active Users
21:00 21:02 21:04 21:06 21:08 21:10


Response Time against Global Throughput
Response Time (ms)
20k
15k
10k
5k
0
0
2k
4k
6k
8k
10k
12k
14k
16k
18k
Global number of requests per second
OK
KO