

K6 PERFORMANCE TEST REPORT

Ø=Üª STRESS TEST

FAILED

Generated: 28/1/2026, 10:51:14

Test Date: 28/1/2026, 10:44:13

P95 1m 0s	P99 1m 0s	Error Rate 68.74%	RPS 2.57
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Executive Summary

Overall Health Score: 15/100 (Critical)

Test Result: SOME THRESHOLDS FAILED

Threshold Results

Metric	Threshold	Status
http_req_duration	p(99)<60000	FAIL
http_req_failed	rate<0.05	FAIL
rejected_semaphore	count<1e9	PASS
shortcircuit	count<1e9	PASS

Quick Statistics

Total Requests	1078
Failed Requests	741
Error Rate	68.74%
Test Duration	7m 0s
Max VUs	101
Avg Response Time	18.08s
P95 Response Time	1m 0s
P99 Response Time	1m 0s
Requests/Second	2.57

Metrics Glossary

This section explains all performance metrics used in this report. Understanding these metrics is essential for interpreting the test results correctly.

Response Time Percentiles

Percentiles show what percentage of requests completed faster than the given value. They are more meaningful than averages because they show the actual user experience distribution.

P50 (Median) - 50% of requests were faster than this value

P90 (90th Percentile) - 90% of requests were faster than this value

P95 (95th Percentile) - 95% of requests were faster than this value

P99 (99th Percentile) - 99% of requests were faster than this value

Throughput Metrics

RPS (Requests Per Second) - Number of requests the system processes per second

Iterations - Total number of complete test cycles executed

Error Metrics

Error Rate - Percentage of requests that failed

HTTP 500 Errors - Internal Server Error count

HTTP 503 Errors - Service Unavailable count

HTTP 504 Errors - Gateway Timeout count

Timeouts - Requests that exceeded the timeout threshold

K6 HTTP Metrics

HTTP Request Duration - Total time for the complete request-response cycle

HTTP Request Waiting (TTFB) - Time to First Byte - time waiting for server response

HTTP Connecting Time - Time spent establishing TCP connection

HTTP Blocked Time - Time spent waiting for a free connection slot

HTTP Sending Time - Time spent sending request data

HTTP Receiving Time - Time spent receiving response data

HTTP Request Failed - Rate of failed HTTP requests

HTTP Requests - Total count of HTTP requests made

Custom Application Metrics

Bad Responses - Total count of responses that failed validation

Rejected Semaphore - Requests rejected due to semaphore limits

Circuit Breaker Activations - Times the circuit breaker was triggered

Success Rate - Percentage of successful requests

Payload Size (Bytes) - Size of request payload in bytes

SOAP Processing Time - Server-side processing time for SOAP requests

Virtual Users (VUs)

Virtual Users simulate concurrent users making requests to your application. Each VU runs in parallel, executing the test script independently.

VUs (Current) - Number of active virtual users at this moment

VUs Max - Maximum number of virtual users during the test

About This Test: STRESS TEST

Objective

Find the system breaking point

Description

The Stress Test pushes the system beyond normal capacity to find its breaking point. Load is gradually increased until the system starts failing or degrading significantly.

This test answers: "What is our maximum capacity?" and "How does the system behave when overloaded?"

Note: This test is expected to eventually fail. The goal is to OBSERVE and MEASURE, not to pass.

When To Run This Test

- Periodically to understand capacity limits
- Before major traffic events (campaigns, launches)
- When planning infrastructure scaling
- After significant architecture changes

What This Test Identifies

- Maximum throughput capacity
- Breaking point (when errors start)
- Degradation pattern under extreme load
- Resource bottlenecks (CPU, memory, connections)
- System behavior during and after overload

How To Interpret Results

Observe: Look for the exact point where errors begin

Detailed Results

Response Time Statistics

Minimum	76ms
Maximum	1m 0s
Average	18.08s
Median (P50)	2.51s
P90	1m 0s
P95	1m 0s
P99	1m 0s

Custom Application Metrics

payload_bytes	Count: 1102, Sum: 6424660
payload_mb	Count: 1102, Sum: 6.13
success_rate	Count: 1078, Sum: 337
response_size_bytes	Count: 337, Sum: 90653
dropped_iterations	Count: 52, Sum: 52
bad_responses	Count: 741, Sum: 741
http_500	Count: 519, Sum: 519
rejected_semaphore	Count: 231, Sum: 231
shortcircuit	Count: 288, Sum: 288
http_504	Count: 222, Sum: 222

HTTP Status Code Distribution

2xx (Success)	-404
3xx (Redirect)	0
4xx (Client Error)	0
5xx (Server Error)	741
Timeout	0

Results Interpretation

Overall Assessment

Based on the test results, the system health score is
15/100 (Critical)

Threshold Analysis

Total Thresholds: 4
Passed: 2
Failed: 2

Recommendations

1. CRITICAL: Error rate exceeds 10%. Investigate error causes immediately.
2. P95 response time exceeds 10 seconds. Consider performance optimization.

Technical Details

Test Configuration

Test Type	stress
Source File	stress-latest.json
Test Date	28/1/2026, 10:44:13
Total Duration	7m 0s
Max Virtual Users	101
Total Iterations	1078

Execution Environment

Report Generated	28/1/2026, 10:51:14
Generator	K6 Performance Testing Framework
Report Version	1.0.0

