K6 PERFORMANCE TEST REPORT

Ø=Ý% SMOKE TEST

FAILED

Generated: 28/1/2026, 11:07:03
Test Date: 28/1/2026, 11:06:19

P95	P99	Error Rate	RPS
95ms	122ms	100.00%	5.45

Executive Summary

Overall Health Score: 45/100 (Poor)

Test Result: SOME THRESHOLDS FAILED

Threshold Results

Metric	Threshold	Status
http_req_duration	p(99)<3000	PASS
http_req_failed	rate<0.01	FAIL

Quick Statistics

Total Requests	82
Failed Requests	82
Error Rate	100.00%
Test Duration	15.04s
Max VUs	1
Avg Response Time	77ms
P95 Response Time	95ms
P99 Response Time	122ms
Requests/Second	5.45

Performance Charts (Grafana)

Real-time performance metrics captured from Grafana dashboard during test execution.
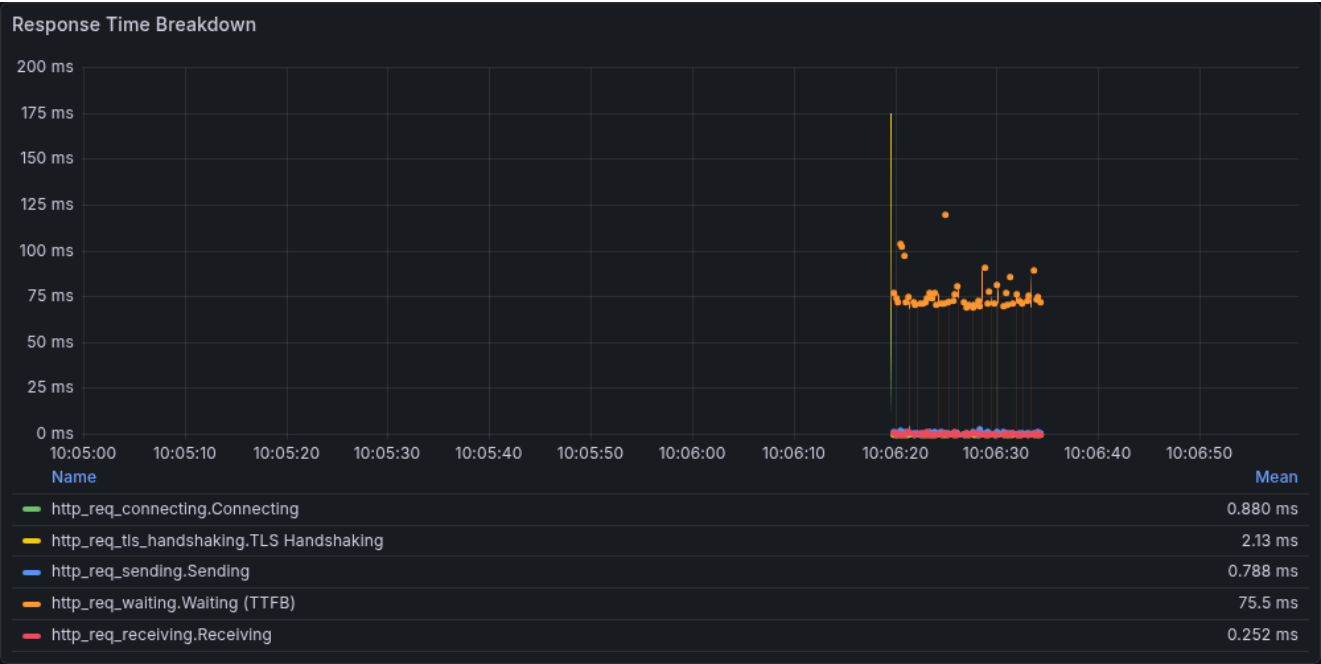
Virtual Users Over Time

Requests Per Second

Response Time Distribution

Error Rate

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

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About This Test: SMOKE TEST

Objective

Verify basic functionality with minimal load

Description

The Smoke Test is the first test you should run. It uses minimal load (1 virtual user)
to verify that the system is working correctly at a fundamental level.

If this test fails, there's a critical problem that must be fixed before running any other tests.
Think of it as checking if the engine starts before doing a full road test.

When To Run This Test

- Before any other performance test
- After each deployment or release
- As part of CI/CD pipeline for quick validation
- After infrastructure changes

What This Test Identifies

- Basic connectivity issues
- Authentication/authorization problems
- Critical bugs that break functionality
- Configuration errors
- Deployment failures

How To Interpret Results

If PASSED: System works correctly. Proceed with more intensive tests.
If FAILED: Critical issue detected. DO NOT run other tests until fixed.

Detailed Results

Response Time Statistics

Minimum	70ms
Maximum	122ms
Average	77ms
Median (P50)	73ms
P90	87ms
P95	95ms
P99	122ms

Custom Application Metrics

bad_responses	Count: 82, Sum: 82
http_503	Count: 82, Sum: 82
success_rate	Count: 82, Sum: 0

HTTP Status Code Distribution

2xx (Success)	-82
3xx (Redirect)	0
4xx (Client Error)	0
5xx (Server Error)	82
Timeout	0

Results Interpretation

Overall Assessment

Based on the test results, the system health score is
45/100 (Poor)

Threshold Analysis

Total Thresholds: 2
Passed: 1
Failed: 1

Recommendations

1. CRITICAL: Error rate exceeds 10%. Investigate error causes immediately.

Technical Details

Test Configuration

Test Type	smoke
Source File	smoke-local-latest.json
Test Date	28/1/2026, 11:06:19
Total Duration	15.04s
Max Virtual Users	1
Total Iterations	82

Execution Environment

Report Generated	28/1/2026, 11:07:04
Generator	K6 Performance Testing Framework
Report Version	1.0.0