k6 Cloud Demo
Executive Summary Report

Automated load test report and summary for test Scenarios in organization k6 Cloud Demo

app.k6.io

EXECUTIVE SUMMARY - Scenarios

PASS

Status: PASS
Created: 21 Mar 2021 at 19:41
Started by: viktor@k6.io
VUs: 320 VUs
Duration: 8 min
Load zones:

Max Throughput	HTTP Failures	Avg Response Time	95% Response Time
181 reqs/s	0 reqs	35 ms	73 ms

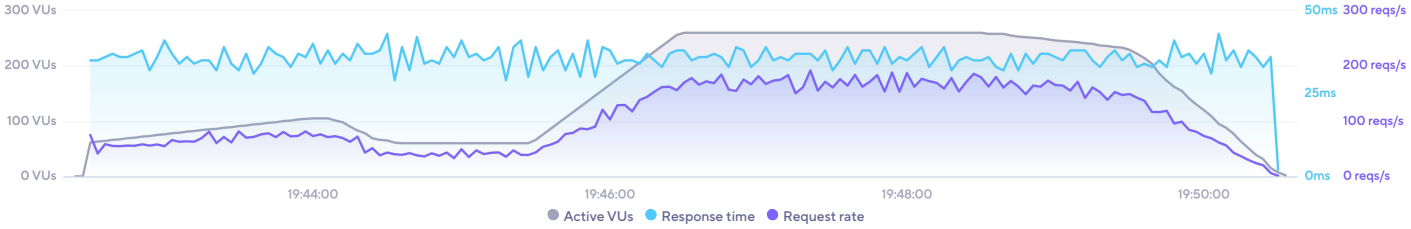
SUMMARY

This report summarizes a test run of the test "Scenarios". It was performed on March 21, 2021 and is considered to be successful.

The test was configured to run up to 320 VUs for 8 minutes. A total of 51 459 requests were made with a max throughput of 181 reqs/s. The sections below give a more detailed breakdown.

PERFORMANCE OVERVIEW

The average response time of the system being tested was **36 ms**, and **51 459** requests were made at an average request rate of **107** requests per second.



TEST OVERVIEW

CHECKS

The test had 5 different checks that were evaluated a total of **49 659** times, of which **16 563** failed. Overall the success rate was 66.65%. The check with the highest failure rate was "Homepage body size is 11026 bytes", which failed 100% of the time.

	CHECK NAME	SUCCESS RATE	SUCCESS COUNT	FAIL COUNT
✓	Users should not be auth'd. Is unauthorized header present?	100%	1800	0
✗	is logged in welcome header present	32.78%	590	1210
✓	Homepage welcome header present	100%	15353	0
✓	Is stylesheet 4859 bytes?	100%	15353	0
✗	Homepage body size is 11026 bytes	0%	0	15353

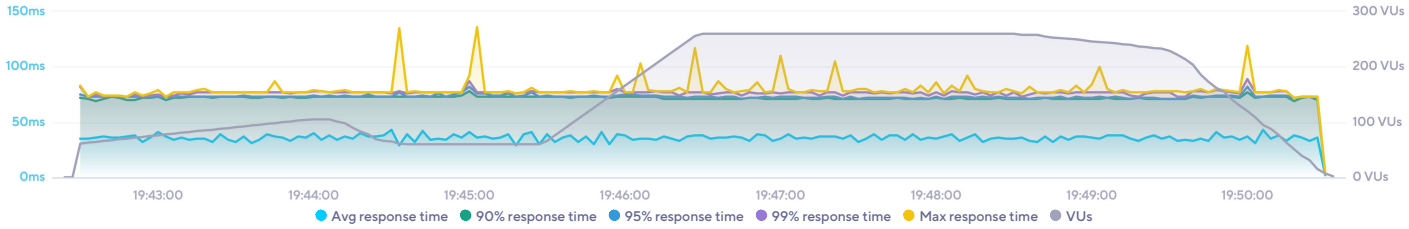
THRESHOLDS

The run met all of its performance expectations, with none of the defined thresholds having been exceeded.

	THRESHOLD NAME	CONDITION	VALUE
✓	successful_logins: count>30	count>30	count=590
✓	http_req_duration{staticAsset:yes}: p(95)<100	p(95)<100	p(95)=73
✓	http_req_duration: p(95)<500	p(95)<500	p(95)=73
✓	check_failure_rate{scenario:logging_in}: rate<0.5	rate<0.5	rate=0.336111111111111

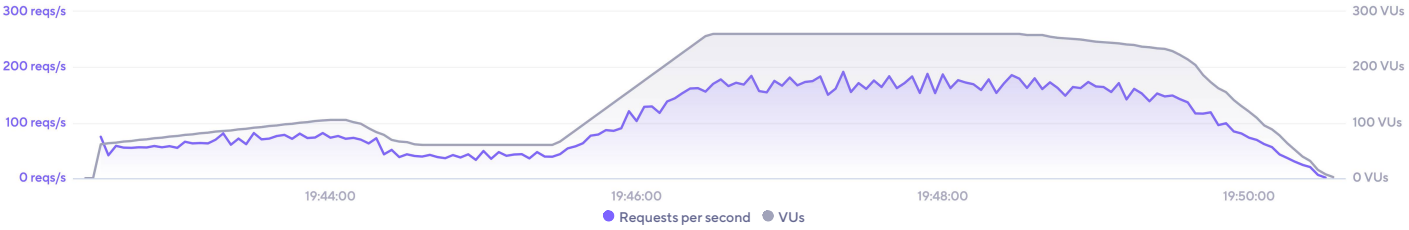
RESPONSE TIME

The maximum response time was **136 ms** at 60 VUs. The average response time at the same point in time was **36 ms**, with 95% of requests taking less than **76 ms**.



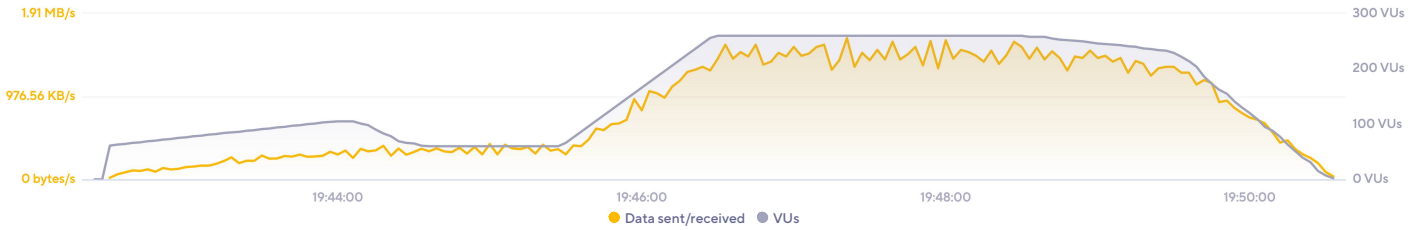
THROUGHPUT

The test had an overall average request rate of **107 reqs/s**, peaking at **192 reqs/s** while running **260 VUs**.



BANDWIDTH

The amount of data sent peaked at 260 VUs, sending **23.03 KB/s** of data. Data received had its peak at 260 VUs with **1.6 MB/s** being received.



SLOWEST REQUESTS

There were requests to 5 unique URLs, with 5 different responses received. The slowest response had an average response time of **37 ms**.

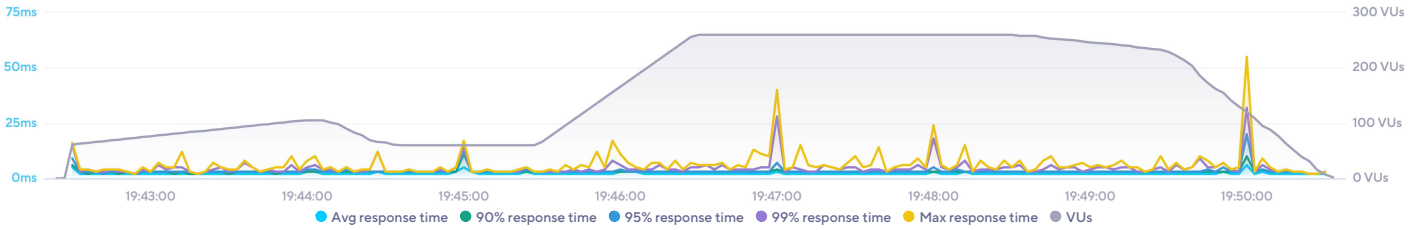
URL	METHOD	STATUS	COUNT	MIN	AVG	95%	99%	MAX
Aggregated	GET	200	15353	1 ms	37 ms	73 ms	78 ms	110 ms
http://test.k6.io/login.php	POST	302	1800	1 ms	36 ms	73 ms	74 ms	87 ms
http://test.k6.io/my_messages.php	GET	200	3600	1 ms	36 ms	73 ms	73 ms	83 ms
batch 1	GET	200	15353	1 ms	36 ms	73 ms	77 ms	88 ms
batch 2	GET	200	15353	1 ms	35 ms	72 ms	77 ms	136 ms

LOAD ZONE OVERVIEW - Ashburn, US (50% distribution)

RESPONSE TIME

LOAD ZONE: Ashburn, US [50%]

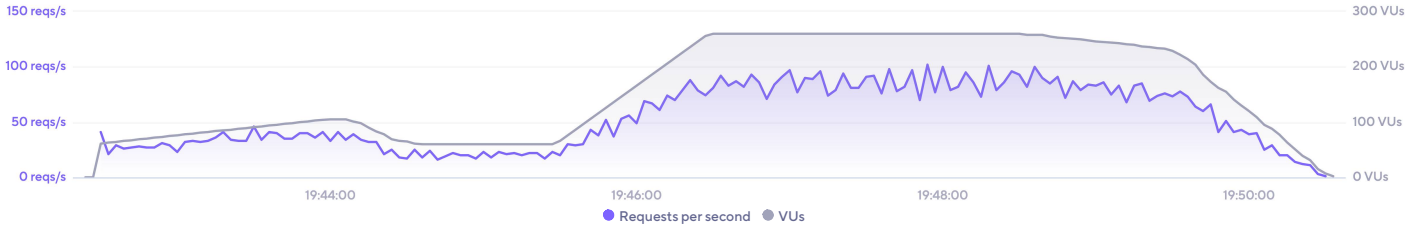
The maximum response time from Ashburn, US was **55 ms** while the test was running a total of 120 VUs. The average response time at the same point in time was **6 ms**, with 95% of requests taking less than **20 ms**.



THROUGHPUT

LOAD ZONE: Ashburn, US [50%]

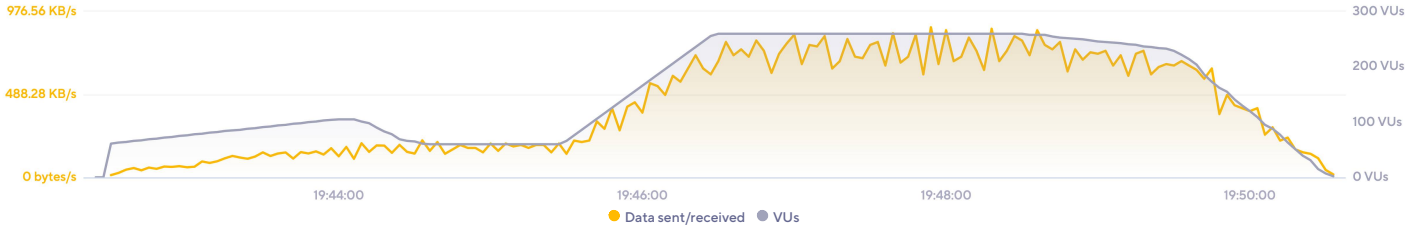
The request rate from Ashburn, US peaked at **102 reqs/s** while running a total of **260 VUs**.



BANDWIDTH

LOAD ZONE: Ashburn, US [50%]

The amount of data sent from Ashburn, US peaked while running a total of 260 VUs, sending **12.23 KB/s** of data. Data received had its peak at 260 VUs with **872.27 KB/s** being received.

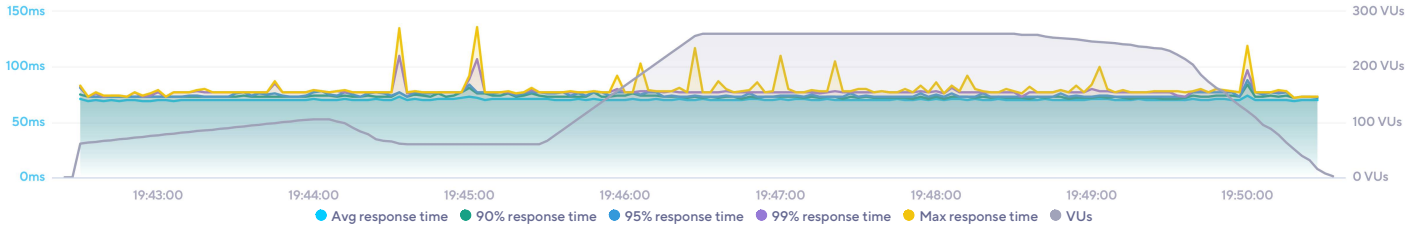


LOAD ZONE OVERVIEW - Dublin, IE (50% distribution)

RESPONSE TIME

LOAD ZONE: Dublin, IE [50%]

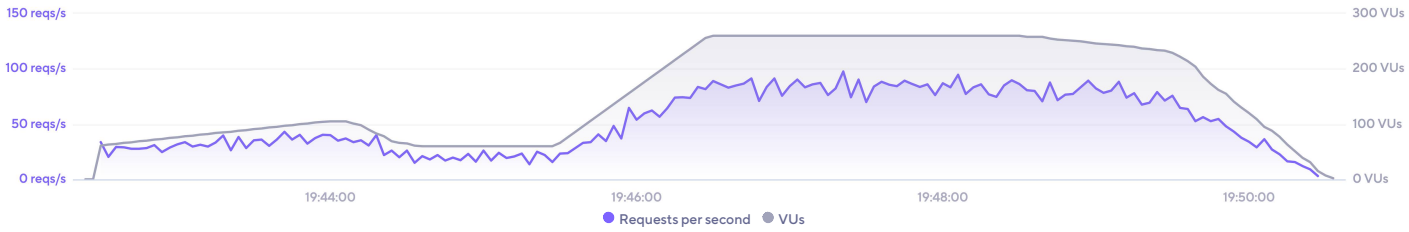
The maximum response time from Dublin, IE was **136 ms** while the test was running a total of 60 VUs. The average response time at the same point in time was **72 ms**, with 95% of requests taking less than **77 ms**.



THROUGHPUT

LOAD ZONE: Dublin, IE [50%]

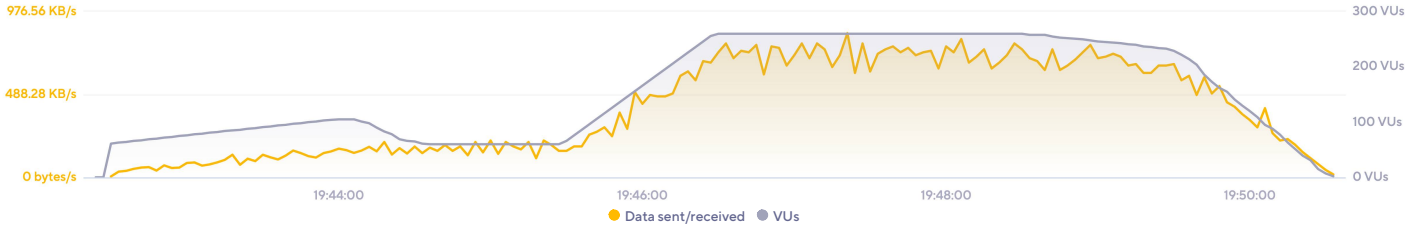
The request rate from Dublin, IE peaked at **98 reqs/s** while running a total of **260 VUs**.



BANDWIDTH

LOAD ZONE: Dublin, IE [50%]

The amount of data sent from Dublin, IE peaked while running a total of 260 VUs, sending **11.75 KB/s** of data. Data received had its peak at 260 VUs with **838.06 KB/s** being received.



VOCABULARY

VUs
A Virtual User is a simulation of a real user making requests to the system. Multiple VUs are executed concurrently to simulate traffic to the website or API.

Response Time
The time from sending the request, processing it on the server side, to the time the client received the first byte.

Throughput
The amount of transactions the system under test can process, showing the capacity of the website or application.

Latency
The time that data sent or received spends on the wire, i.e. from the start of data being transmitted until all the data has been sent.

Checks
A check is an assertion that the system under test behaves correctly, e.g. that it returns the correct status code. They do not halt the execution of the test, but acts as a pass/fail metric.

Thresholds
Thresholds are a pass/fail criteria used to specify the performance expectations of the system under test.

ABOUT k6 CLOUD

k6 is a developer-centric, free and open-source load testing tool built for making performance testing a productive and enjoyable experience. Using k6, you'll be able to catch performance regression and problems earlier, allowing you to build resilient systems and robust applications. .

The k6 Cloud is a commercial SaaS product that we've designed to be the perfect companion to k6 OSS. It brings ease-of-use and convenience to your performance and load testing. We want you to spend time building and maintaining well-performing applications. Don't saddle your team with the additional maintenance burden of your load testing infrastructure.

Find out more at https://k6.io/cloud