Prepared: Darina Slivka

Performance testing part

Target application is

http://ec2-3-94-57-213.compute-1.amazonaws.com:5000/

According to this document, load testing of the system will be performed to evaluate the behaviour of the system under load. The purpose of our testing is to determine the **maximum** load that the system can withstand.

The increased number of users will act as a load.

During testing, the following operations can be performed to more accurately measure performance and identify bottlenecks in the system:

- measuring the execution time of selected operations at certain intensities;
- determination of the number of users simultaneously working with the application (10);

Testing will determine the load on the following actions:

- POST /v1/auth/login
- GET /v1/users
- POST /v1/events
- POST /v1/tickets

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Load Testing Report

Summary

According load test, app can process normally 10 request per second. Need to notice, that max throughput our test equal max capacity min request.

A half of requests (median=5296 ms) done successfully, performance degradation wasn't display. After 3,25 minutes working system start degradation, response time increase.

Average response time is nearly median and equal 5745 ms.

On line 90%-100% was observed increase response time in requests *POST /v1/auth/login* and *GET/v1/users.* On line 95%-100% was observed increase response time in requests *POST /v1/tickets.*

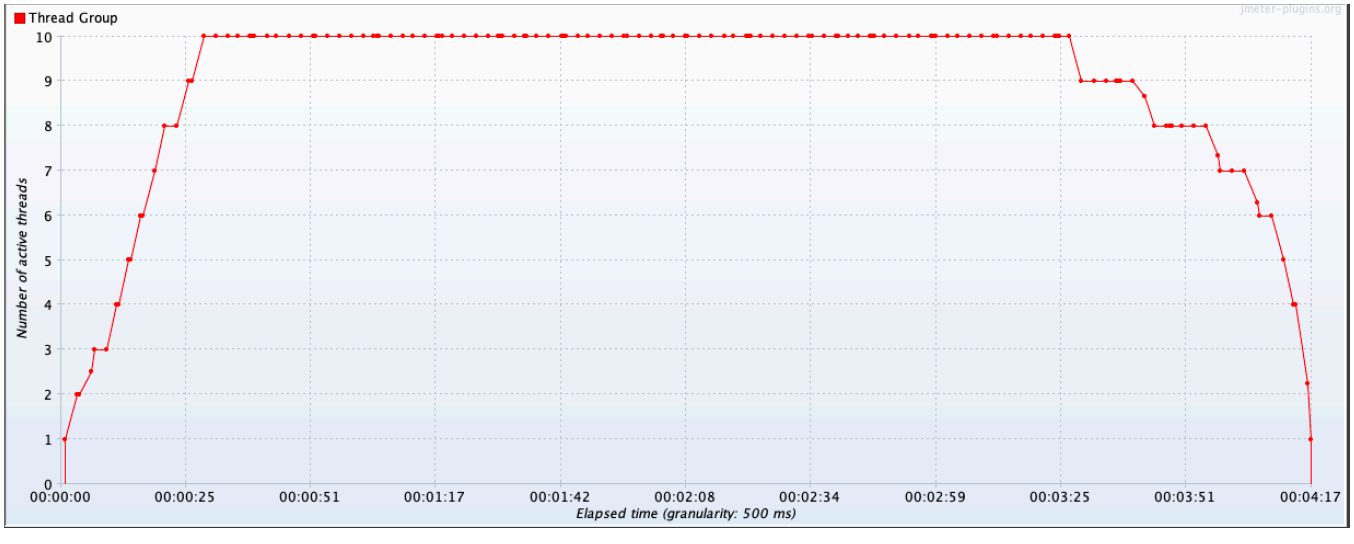
Load model:

- Number of virtual users: 10
- Ramp-up period: 30s
- Test duration: 300s

Aggregate Report

Label ↓	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput
POST /v1/tickets	100	5822	5322	9700	11885	12062	272	12066	0.00%	23.7/min
POST /v1/events	100	4628	5064	9672	9717	9821	339	9860	0.00%	23.7/min
POST /v1/auth/l...	100	5611	5251	11904	11967	12089	299	12114	0.00%	23.7/min
GET/v1/users	100	6920	7405	11896	11953	12128	2547	12132	0.00%	23.5/min
TOTAL	400	5745	5296	9821	11926	12089	272	12132	0.00%	1.6/sec

Active Threads Over Time



Composite Graph