

Smoke test (10 vu)

Test purpose

The purpose of the test was to check that the functionalities of the BlogEngine application are working correct and environment is working stably during using the application by clients with Anonymous role. The number of generated blog posts is 100.

Environment: Analysis was performed on TEST environment.

General info:

Host	Type	IP	Hosted Applications	Ports
EPUAKIYW1844T2	VM	10.17.175.58	EPUAKIYW1844T2.kyiv.epam.com	80

System resources (TEST env):

	Operational System	CPU, GHz	Memory, Gb	Disk size, Gb
DGL	Win Server 2010 R2 SP1 64bit	2	4	50

Test status

Successful – all functionalities of the application are working correct, changes in CPU usage occurred regardless of application load.

Test scenario

There are considered Main script for Anonymous user scenario where

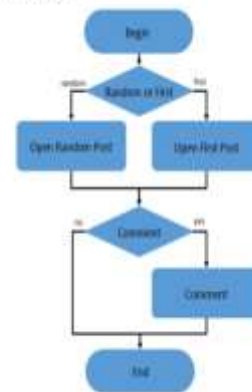
Main script



Anonymous script



Open Post script



Test conditions

Condition	Transaction	Probabilities usage
1	open home page	15%
	open random date	10%
	open predefined date	30%
	search by name	30%
	open large calendar	10%
	open contacts	5%
2	open random page	50%
3	open post	80%
4	open random post	65%
	open first post	35%
5	add comment	20%

Test Setup

number of virtual users	10
ramp-up period	100
think time between transactions(sec)	3-5
count of posts	100

Note: here random date is from 2019-02-01 to 2019-02-11.

Test Results

KPI	
Max requests/sec	up to 20
Average requests/sec	9
average response time (ms)	1000
CPU	up to 69%

Test Summary

A test was performed to check the functionality of the application. No errors were reproduced during the test. The environment indicators were normal considering that there is not only an application on the host. Test results are satisfactory.

Result detail

There is suppose that these results depend from random date value, it will be good to execute the addition test with another random date for comparison the results.

Recommendation

Check Home page work because 100% of transaction have response time 4.13 second.

Results: graphs and tables

Test result dashboard:

<https://snapshot.raintank.io/dashboard/snapshot/XU36XTWie1PGH2oqJvYNAJ00pJLoUHLI>

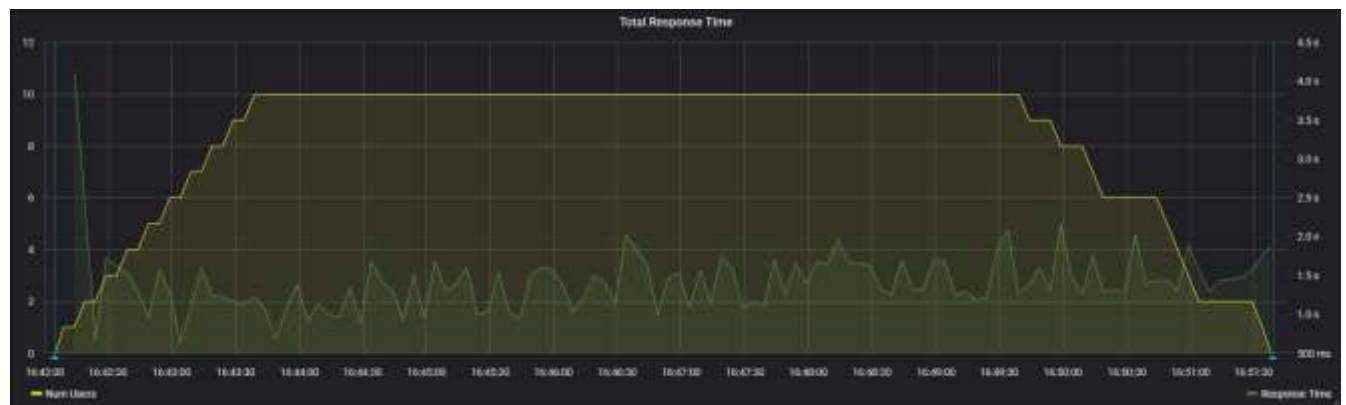
Host monitoring dashboard:

<https://snapshot.raintank.io/dashboard/snapshot/Kwh7EeJeP6egAkEyW6e9Bzjv3LMSn9Oo>

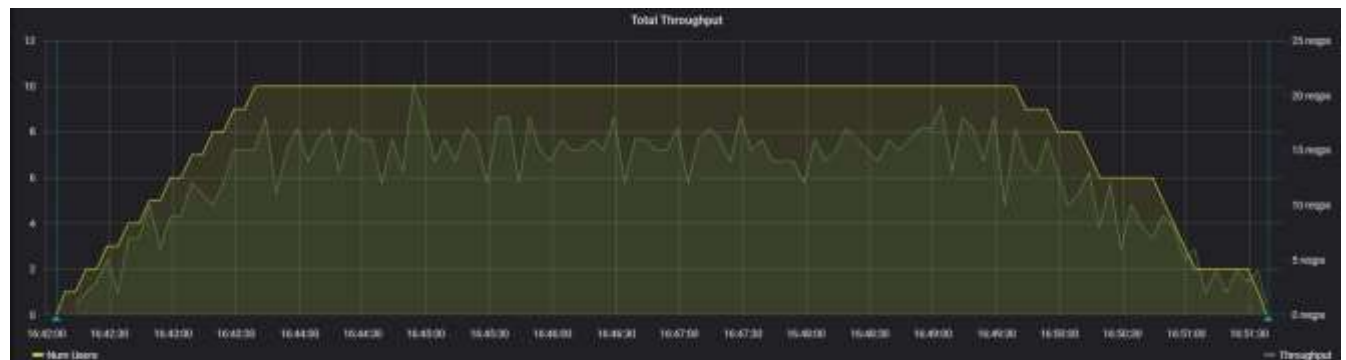
1. Aggregate Reports

Aggregate Report										
Time	Transaction	Count	Avg ±	Min	Max	Median	Pct 75	Pct 90	Pct 95	K0
2019-02-27	Open Large Calendar	50	717.36 ms	70.00 ms	1.30 s	485.00 ms	990.00 ms	1.30 s	1.30 s	0
2019-02-27	Open Random Date	50	731.30 ms	30.00 ms	1.30 s	781.00 ms	701.00 ms	813.00 ms	817.00 ms	0
2019-02-27	Comment	93	846.76 ms	30.00 ms	1.30 s	1.20 s	1.20 s	1.20 s	1.20 s	0
2019-02-27	Open First Post	93	913.88 ms	30.00 ms	1.30 s	1.00 s	1.00 s	1.00 s	1.00 s	0
2019-02-27	Open Contacts	90	929.83 ms	30.00 ms	1.01 s	1.01 s	1.01 s	1.01 s	1.01 s	0
2019-02-27	Open Predefined Date	150	1.07 s	30.00 ms	1.30 s	1.14 s	1.20 s	1.20 s	1.20 s	0
2019-02-27	Open Random Page	135	1.10 s	30.00 ms	2.10 s	994.00 ms	1.27 s	1.28 s	1.28 s	0
2019-02-27	Search By Name	150	1.16 s	31.00 ms	1.30 s	1.30 s	1.34 s	1.34 s	1.37 s	0
2019-02-27	Open Random Post	165	1.60 s	30.00 ms	1.89 s	1.61 s	1.65 s	1.89 s	1.89 s	0
2019-02-27	Open Home page	80	4.13 s	47.00 ms	4.13 s	4.13 s	4.12 s	4.13 s	4.13 s	0

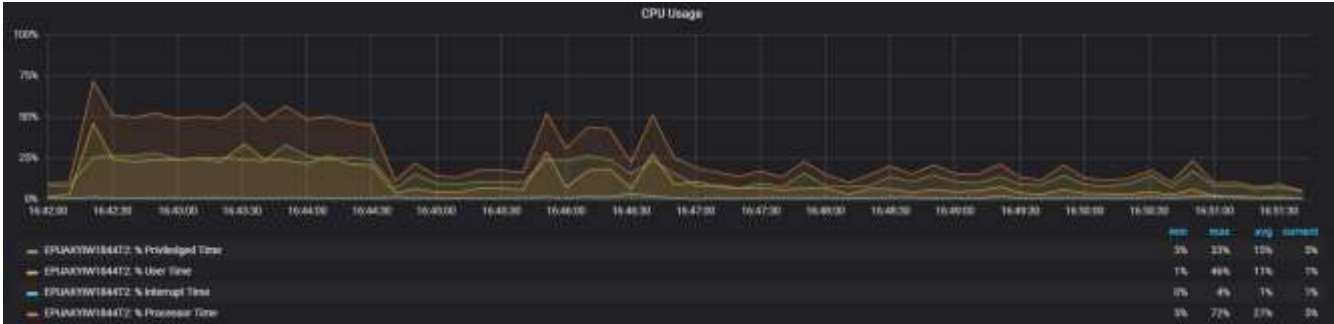
2. Total Response Time vs Threads



3. Total Throughput vs Threads



4. CPU



5. Memory

