**Environment:** Analysis was performed on TEST environment.

# General info:

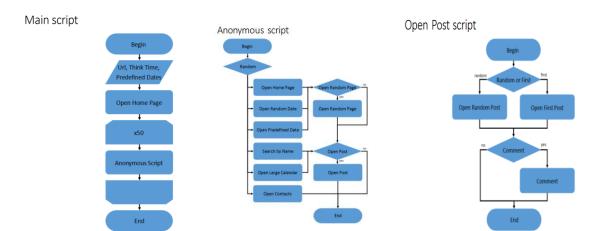
	Host	Typ e	IP	Hosted Applications	Ports
STAGIN G	EPUAKYIW1686 T1	VM	10.17.172.226	EPUAKYIW1686T1.kyiv.epam.com	8080, 4444

# System resources (TEST env):

CPU, GHz	Memory, Gb	Disk size, Gb			
2	8	100			

# Test scenario

There are considered Main script for Anonymous user scenario for two type of probability usage where



#### **Test conditions**

Transaction	First Condition	<b>Second Condition</b>			
open home page	random	15%			
open random date	random	10%			
open predefined date	random	30%			
search by name	random	30%			
open large calendar	random	10%			
open contacts	random	5%			
open random page	50%	50%			
open post	50%	80%			
open random post	50%	65%			
open first post	50%	35%			
add comment	50%	20%			

## **Test Setup**

	First Condition	Second Condition				
number of virtual users	Up to 150					
ramp-up period(sec)	750					
duration(sec)	900					
think time (sec)	3-5					

#### **Test Summary(100 posts 1-st and 2-nd conditions)**

- 1 The maximum capacity of the application usage by Anonymous clients is found. For both scenarios it is restricted by the 100% CPU usage and and a significant increase in the use of network resources. Adding more load leads to the application becomes unresponsive.
- 2 Saturation point is 108 users for the 1st scenario. Saturation point is 132 for the 2nd scenario.

#### Recommendation

- 1 Possibility to increasing CPU power.
- 2 Increase Network I/O.
- 3 After reaching the point of saturation, the application doesn't respond and no recovery is provided for. Perhaps we should add a recovery step or at least a stub which produced 500 errors.

# Results: graphs and tables (100 posts 1-st and 2-nd conditions, for more details open dashboard HTMLReport > index)

## 1 Statistics

## 1-st condition

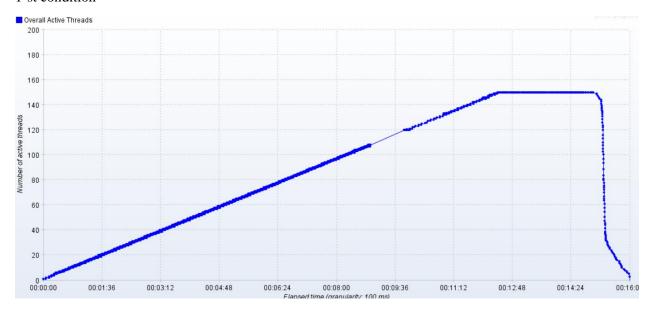
	Statistics											
Requests	Executions				Response Times (ms)							
Label ^	#Samples \$	ко Ф	Error % \$	Average \$	Min ♥	Max ¢	90th pct 💠	95th pct 🕈	99th pct 💠	Throughput \$	Received	Sent +
Total	7716	954	12.36%	7534.20	6	64991	60002.00	60002.00	63992.32	8.08	198.67	9.22
Comment transaction	1201	102	8.49%	5197.76	13	64973	95.00	60003.00	64068.22	1.34	3.93	4.00
Go To Contact transaction	521	30	5.76%	3543.41	19	64373	60.80	60002.00	63706.22	0.56	9.65	0.49
Go to log in page transaction	150	43	28.67%	17213.72	6	60009	60002.00	60003.00	60007.47	0.19	0.74	0.02
Go To Main Blog page transaction	150	45	30.00%	18258.71	26	64966	60002.00	63261.20	64933.87	0.16	3.49	0.10
Log in transaction	150	44	29.33%	17644.19	31	60003	60003.00	60003.00	60003.00	0.17	3.85	0.14
Open First or Random Post transaction	2515	244	9.70%	5954.36	23	64943	677.20	60002.00	64185.72	2.68	102.12	2.27
Open Home Page transaction	513	48	9.36%	5702.61	26	64406	875.00	60002.00	63818.62	0.56	15.23	0.47
Open Large Calendar transaction	529	56	10.59%	6475.12	25	64893	60001.00	60002.00	64104.60	0.58	13.30	0.49
Open Predefined Date transaction	558	57	10.22%	6223.35	23	64880	60001.00	60002.00	63813.08	0.59	16.00	0.50
Open Random Date transaction	506	58	11.46%	7007.30	22	64976	60002.00	60002.00	63996.39	0.55	14.47	0.46
Open Random Page transaction	306	36	11.76%	7275.11	25	64913	60002.00	60007.25	64484.27	0.35	9.29	0.28
Search by Name transaction	467	41	8.78%	5368.32	22	64991	108.20	60002.00	63960.96	0.52	12.33	0.44

## 2-nd condition

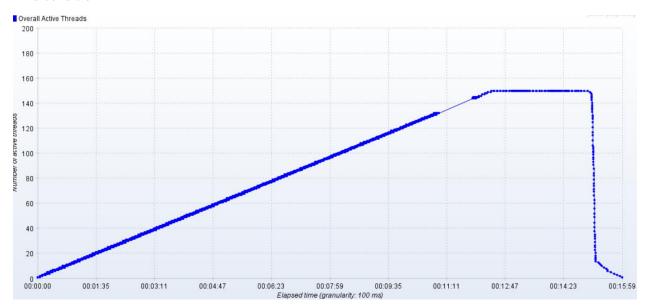
						Statis	stics					
Requests	Requests Executions				Response Times (ms)							
Label -	#Samples +	ко ¢	Error % •	Average ¢	Min ¢	Max ¢	90th pct +	95th pct •	99th pct	Throughput \$	Received ¢	Sent ¢
Total	11491	742	6.46%	3964.50	6	64991	96.00	60001.00	63570.08	12.02	363.25	11.99
Comment transaction	728	39	5.36%	3288.48	13	64032	55.20	60002.00	63190.03	0.90	2.66	2.79
Go To Contact transaction	272	17	6.25%	3828.23	19	64936	54.70	60001.00	63963.77	0.32	5.53	0.28
Go to log in page transaction	150	19	12.67%	7612.50	6	60008	60002.00	60002.00	60006.98	0.19	0.80	0.03
Go To Main Blog page transaction	150	20	13.33%	8250.33	26	64882	60002.00	63210.75	64732.57	0.16	4.23	0.12
Log in transaction	150	19	12.67%	7643.25	31	60003	60002.00	60003.00	60003.00	0.17	4.65	0.17
Open First Post transaction	1409	59	4.19%	2602.30	21	64855	152.00	227.50	60003.90	1.65	94.14	1.47
Open Home Page transaction	759	32	4.22%	2610.39	25	64499	63.00	97.00	63309.00	0.86	24.52	0.75
Open Large Calendar transaction	508	25	4.92%	3065.15	25	64879	66.10	33085.15	64273.00	0.58	14.22	0.52
Open Predefined Date transaction	1529	80	5.23%	3228.61	22	64911	58.00	60001.00	63591.10	1.61	45.81	1.42
Open Random Date transaction	523	24	4.59%	2869.47	22	64991	60.00	153.60	64409.72	0.59	16.82	0.53
Open Random Page transaction	1286	58	4.51%	2802.43	26	64897	65.30	121.30	63702.56	1.50	42.96	1.31
Open Random Post transaction	2396	122	5.09%	3140.63	22	64984	82.00	60001.00	63098.61	2.66	94.87	2.33
Search by Name transaction	1481	78	5.27%	3256.83	22	64958	59.80	60001.00	63752.72	1.65	40.54	1.45

## 2 Number of active threads graph

#### 1-st condition

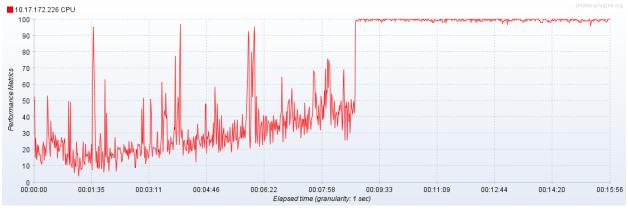


#### 2-nd condition

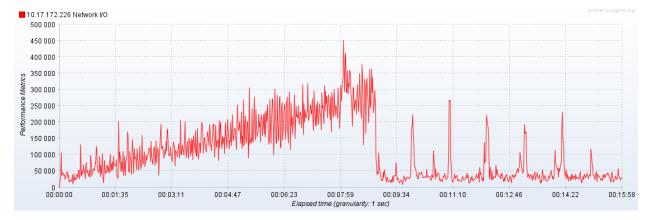


3 PerfMon Metrics (CPU,Memory,Network) graphs

#### 1-st condition







## 2-nd condition

