**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):

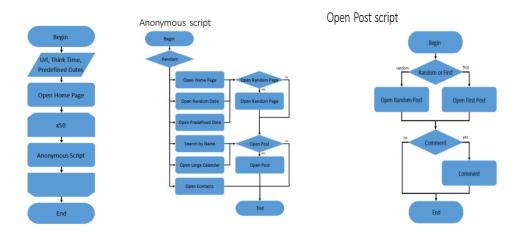
CPU, GHz	Memory, Gb	Disk size, Gb			
2	8	100			

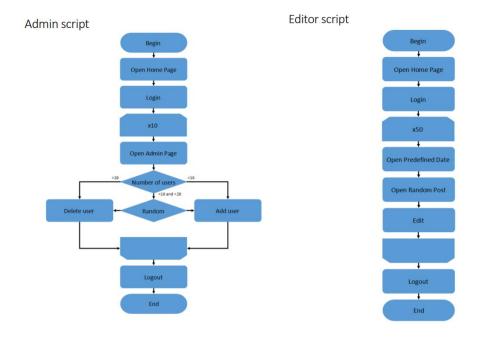
# Test scenario

There is a combined scenario which is to include the scripts:

- Task 4 (admin)
- Task 5 (editor)
- Task 6 (anonymous)

Main script





# **Test conditions**

	Condition for anonymous				
Transaction	script				
open home page	15%				
open random date	10%				
open predefined date	30%				
search by name	30%				
open large calendar	10%				
open contacts	5%				
open random page	50%				
open post	80%				
open random post	65%				
open first post	35%				
add comment	20%				

## **Test Setup**

	Condition				
	Up to 150 – Anonymous				
	2 – Admins				
number of virtual users	2 – Editors				
	750 – Anonymous				
	30 – Admin				
ramp-up period(sec)	30 – Editor				
duration(sec)	900				
think time (sec)	3-5				

### **Test Summary**

- 1 The maximum capacity of the application usage is found. For both scenarios it is restricted by the 100% CPU usage and a significant increase in the use of network resources. Adding more load leads to the application becomes unresponsive.
- 2 Saturation point is 75 users (2 admins, 2 editors, 71 anonymous) (1000 posts) for the combined scenario.

#### Recommendation

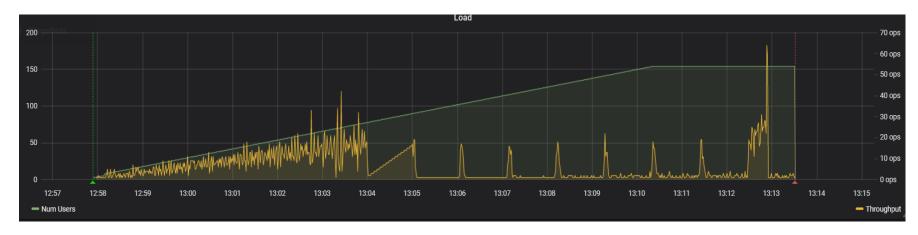
- 1 Possibility to increasing CPU power.
- 2 Increase Network I/O.
- 3 After reaching the point of saturation, the application doesn't respond and no recovery is provided for. Perhaps we should add a recovery step or at least a stub which produced 500 errors.

## Results: graphs and tables(for more details open dashboard HTMLReport > index)

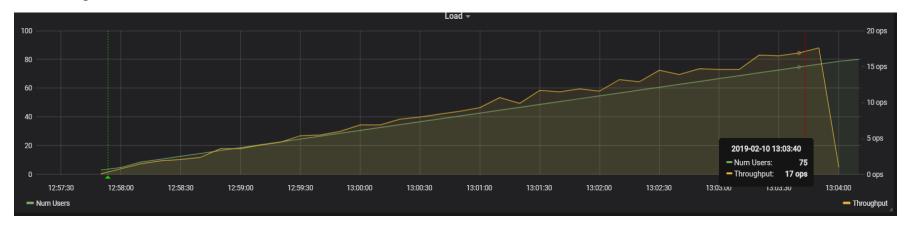
## 1 Statistics

Metrics Overview										
	requestName	Count	Avg	Min	Max	Median				Error Rate
2019-02-10 12:56:44	Add User transaction	10.00								10.00%
2019-02-10 12:56:44	Change Post transaction	15.00								13.33%
2019-02-10 12:56:44	Comment transaction	258.00								27.13%
2019-02-10 12:56:44	Delete User transaction	1.00								0%
2019-02-10 12:56:44	Go To Main Blog page transaction	154.00	30.45 s							51.30%
2019-02-10 12:56:44	Go to log in page transaction	154.00				32.20 s				50.00%
2019-02-10 12:56:44	Log in transaction	154.00	30.43 s							50.65%
2019-02-10 12:56:44	Open Admin Page transaction	13.00								15.38%
2019-02-10 12:56:44	Open First Post transaction	494.00								29.35%
2019-02-10 12:56:44	Open Home Page transaction	1.81 K								31.05%
2019-02-10 12:56:44	Open Predefined Date transaction	17.00								23.53%
2019-02-10 12:56:44	Open Random Page transaction	852.00	10.12 s							30.05%
2019-02-10 12:56:44	Open Random Post transaction	914.00	11.49 s							30.96%
2019-02-10 12:56:44	Open Users Page transaction	13.00								23.08%

## 2 Number of active threads vs throughput graph



# Saturation point



# 3 (CPU, Memory, Network) graphs

