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

General info:

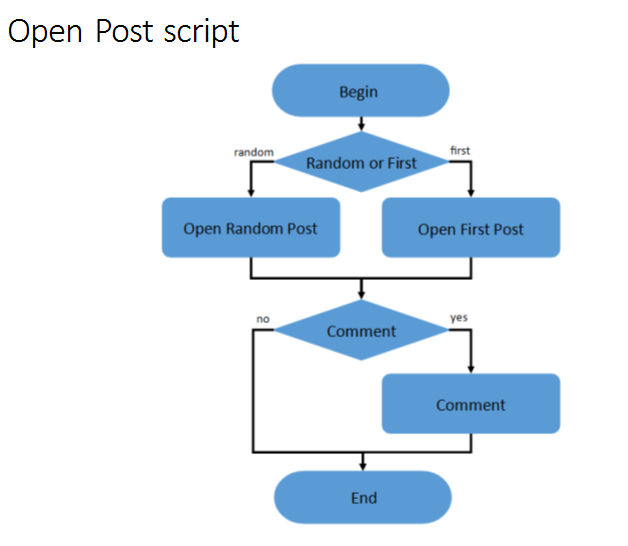
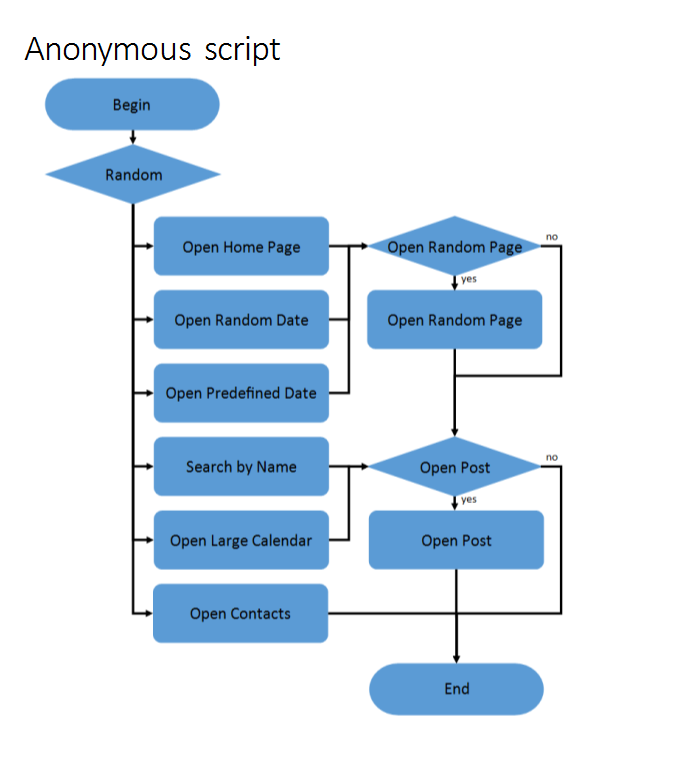
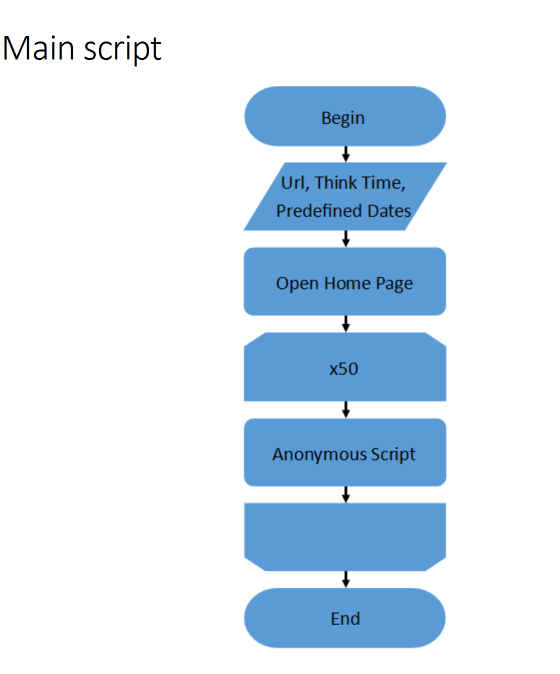
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Host** | **Type** | **IP** | **Hosted Applications** | **Ports** |
| STAGING | EPUAKYIW1686T1 | VM | 10.17.172.226 | EPUAKYIW1686T1.kyiv.epam.com | 8080, 4444 |

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** | **Second Condition** |
| 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**

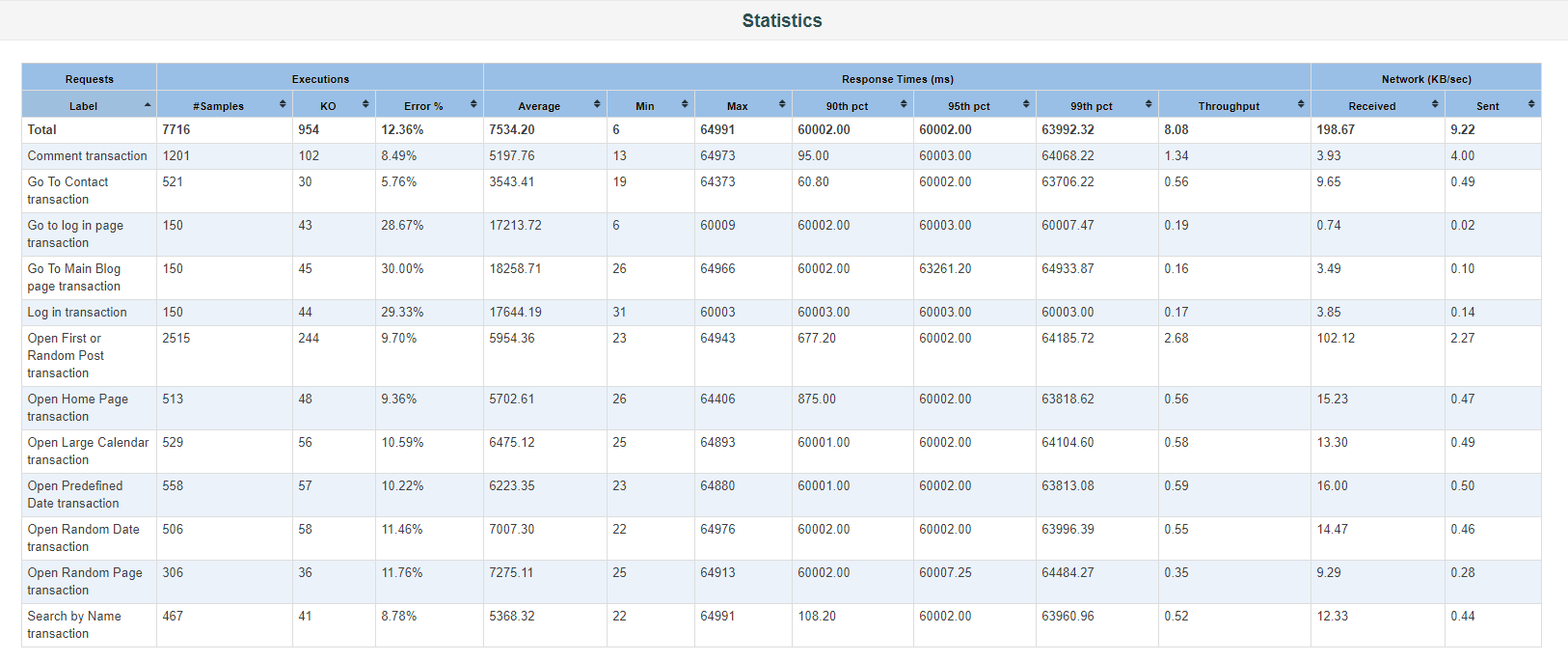
1 Possibility to increasing CPU power.

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

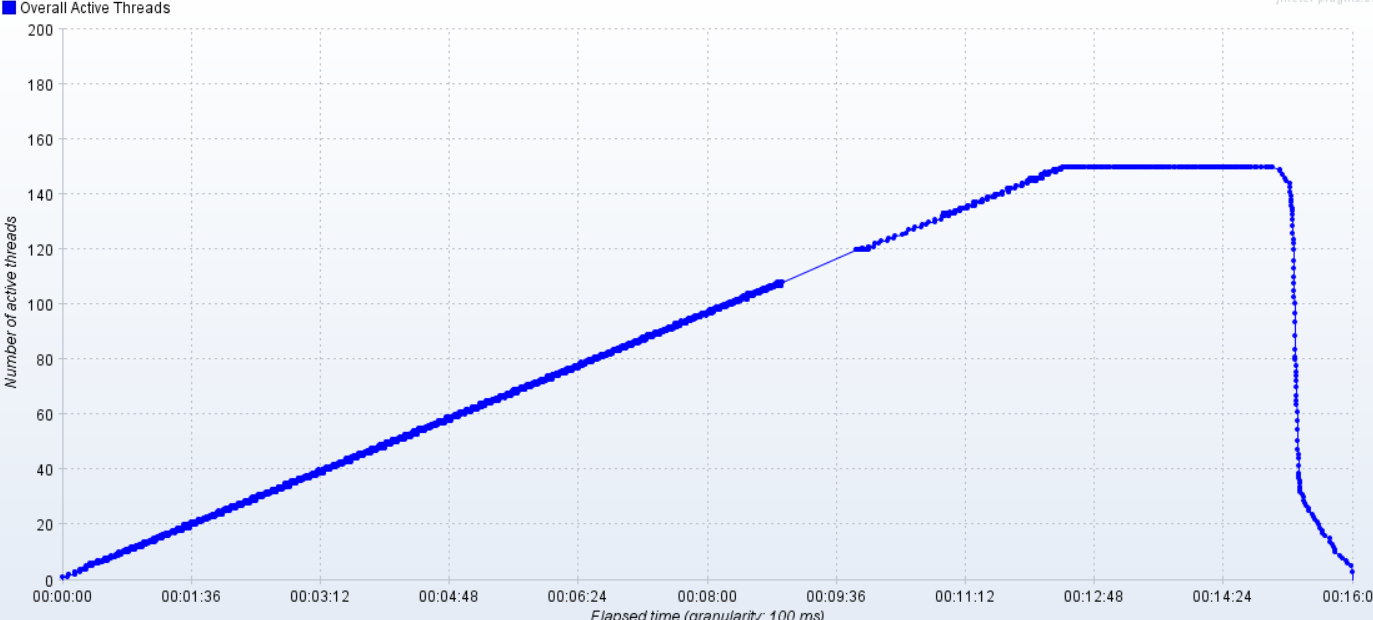
1-st condition

2-nd condition

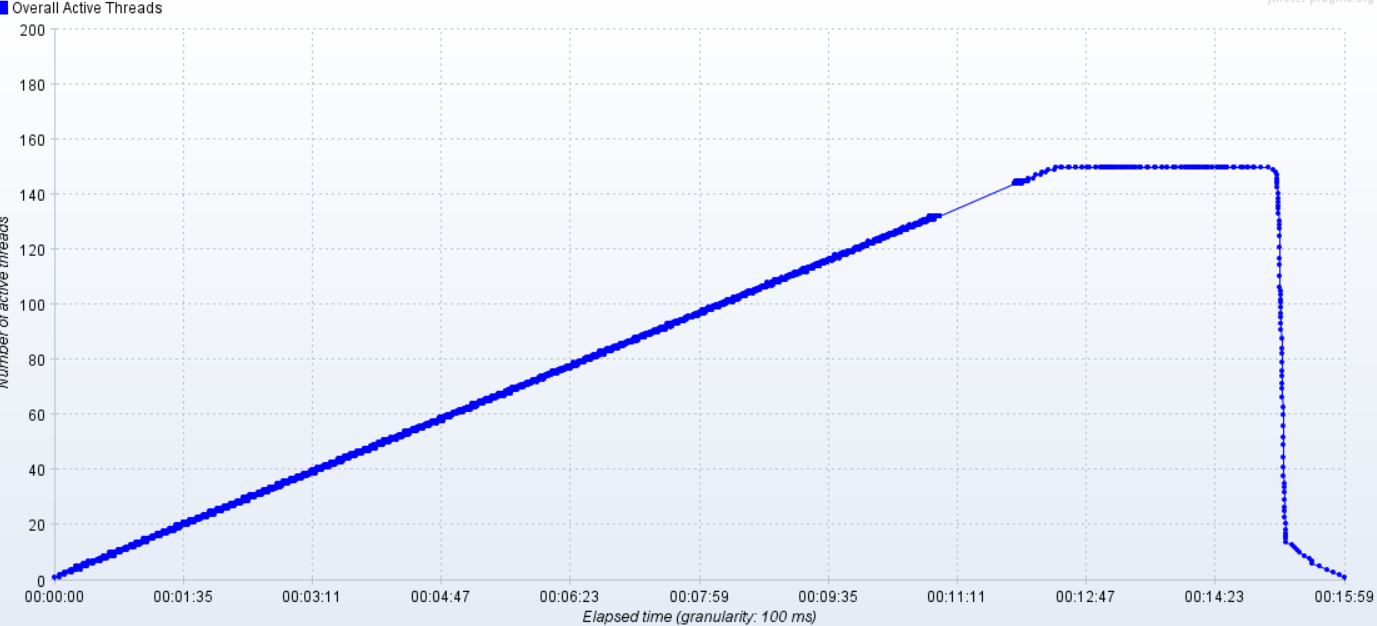


2 Number of active threads graph

1-st condition

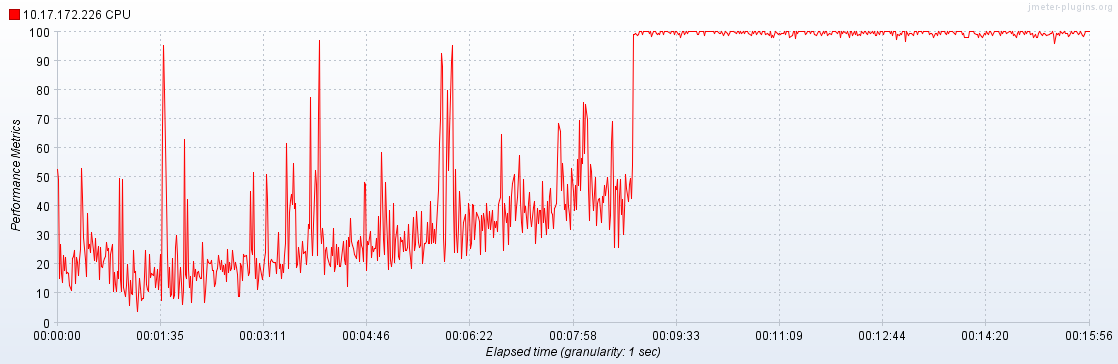


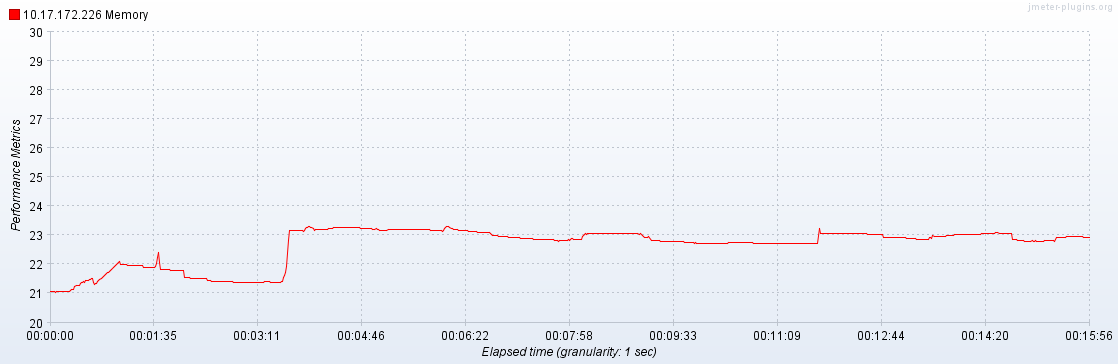
2-nd condition

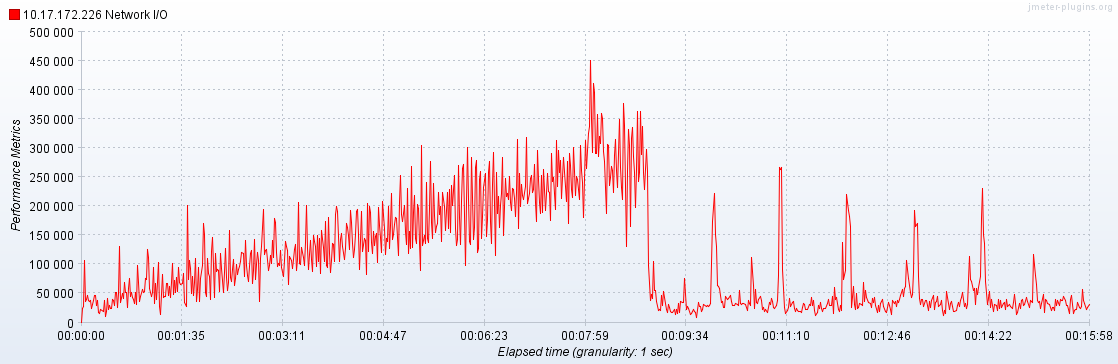


3 PerfMon Metrics (CPU,Memory,Network) graphs

1-st condition







2-nd condition

