**Report on results of performance testing: Task7 – Perform editor script load test**

**Purpose**

Combine three scenarios for different users to simulate real combined load. Perform smoke and capacity tests to analyze application’s performance under combine load.

**Environment**

Virtual machine emulated with Oracle VM VirtualBox Manager Version 6.0.10:

|  |  |
| --- | --- |
| OS | Windows 10 |
| Base Memory | 8192 MB |
| Processors | 4 |
| Acceleration | VT-x/AMD-V, Nested Paging, PAE/NX, Hyper-V Paravirtualization |
| Attached to | Bridget Adapter |
| Adapter Type | Intel PRO/1000 MT Desktop (82540EM) |
| Promiscuous Mode | Deny |
| MAC Address | 0800272FEB0A |

Host Machine:

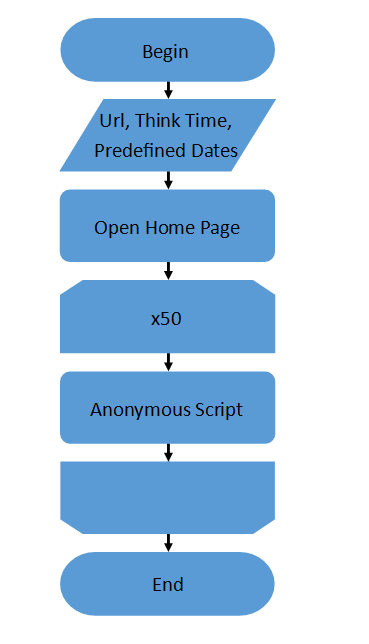
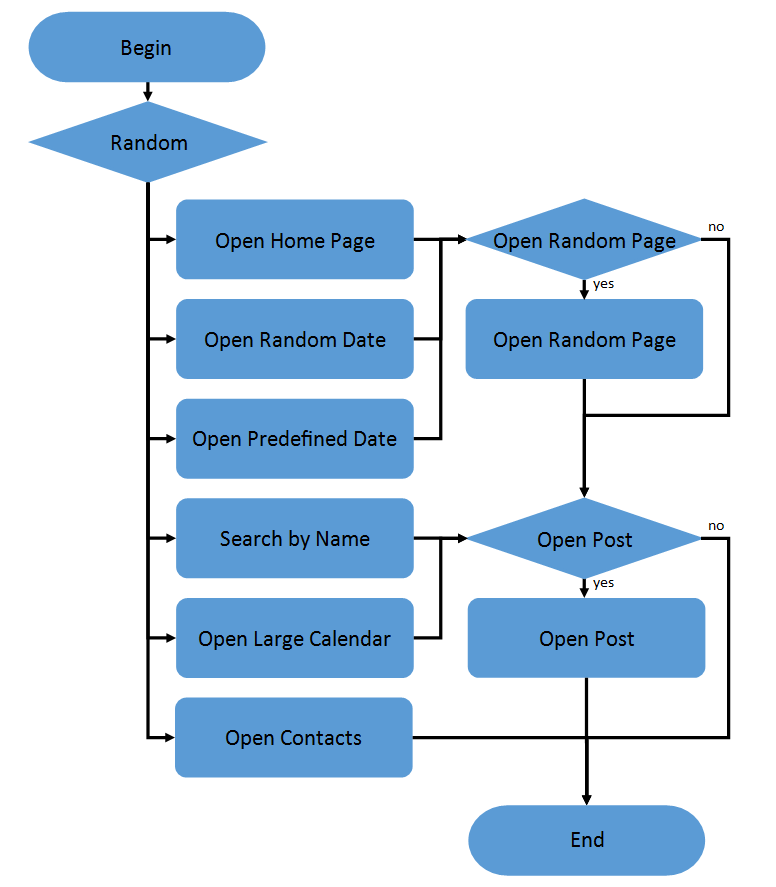
|  |  |
| --- | --- |
| Processor | Intel(R) Core(TM) i7-8700 CPU @ 3.20GHz 3.19 GHz |
| Installed memory(RAM) | 32.0 GM (31.7 GB usable) |
| System Type | 64-bit Operating System, x64-based processor |

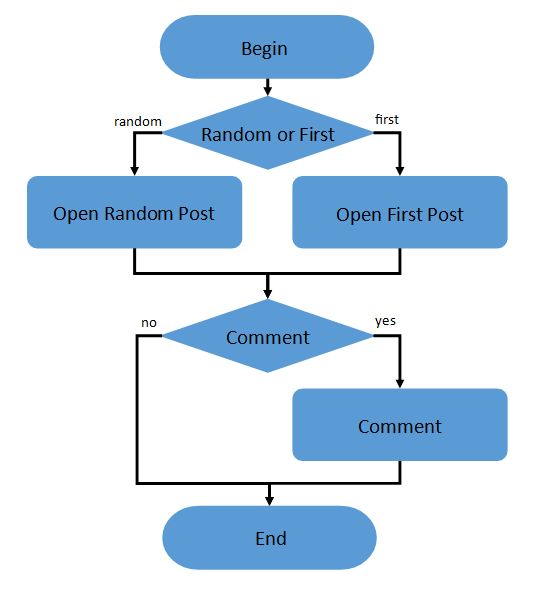
Parameters:

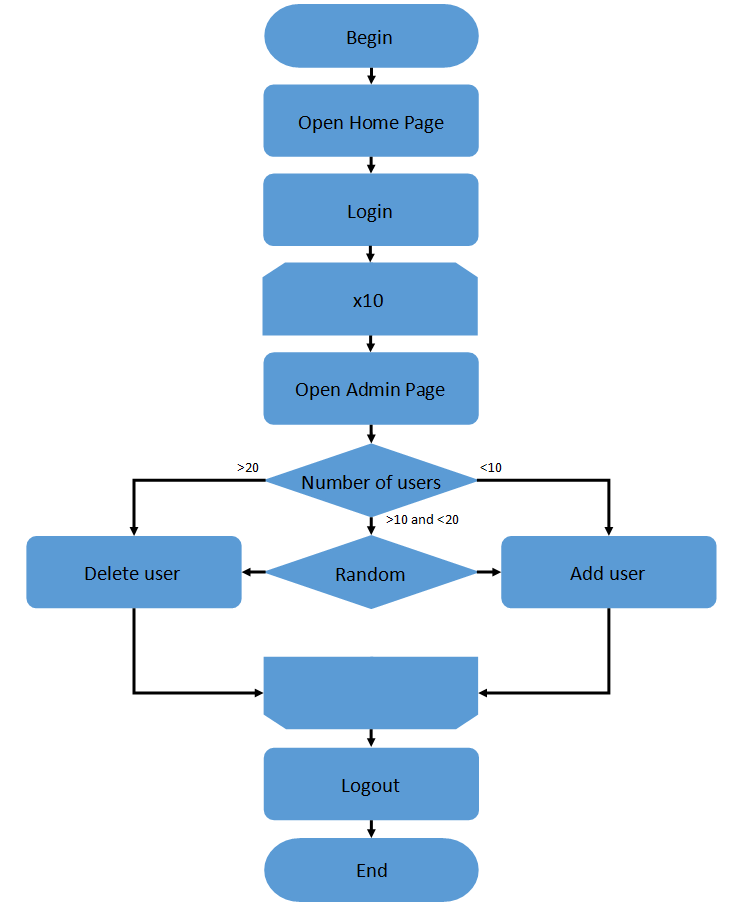
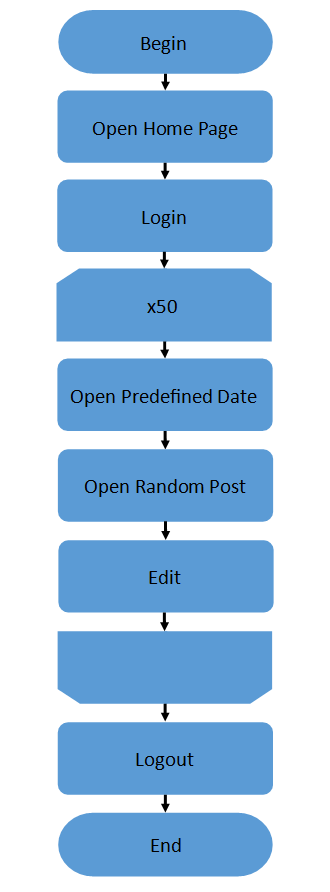
|  |  |
| --- | --- |
| Server Name | 10.66.154.88/blog |
| Protocol | http |
| Timer delay | 3000 ms |
| Timer deviation | 1000 ms |

**Load Model**

**Anonymous script:**

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**Admin script: Editor script:**

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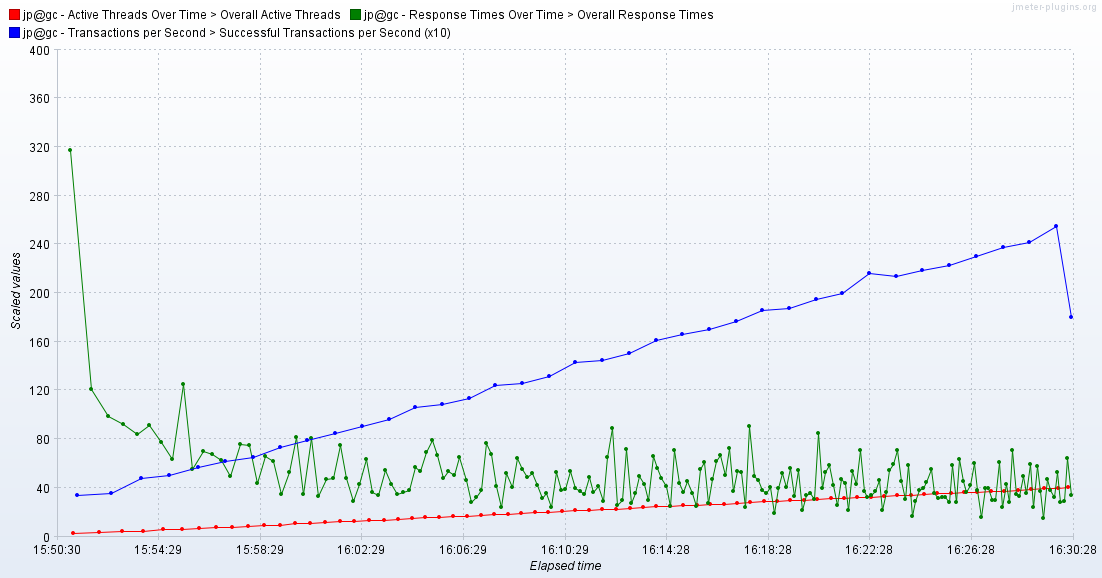
|  |  |
| --- | --- |
| Number of anonymous users | 50 |
| Number of editor users | 1 |
| Number of admin users | 1 |
| Ramp-Up-Period (in sec) | 1500 sec |
| Loop Count | Forever |
| Duration | 1500 sec |

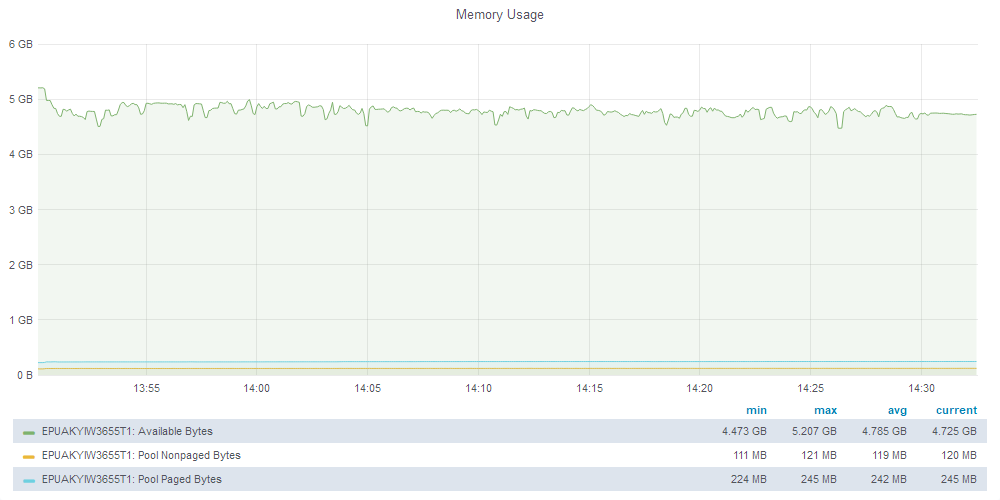
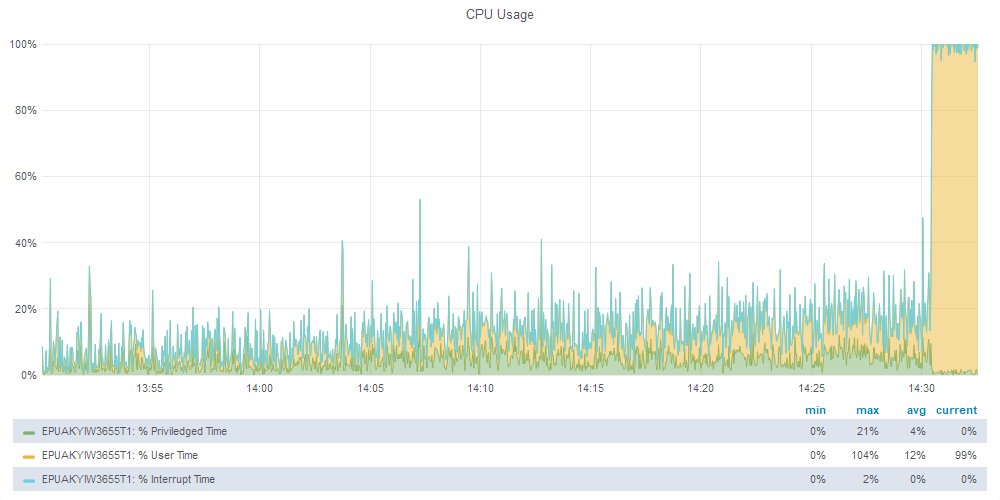
**Results**

**System is very unstable to increasing load. It was very hard to complete capacity testing, because reaching of the saturation point breaks the application. CPU and Memory using on server machine become 100% and it stops responding. Therefore, a couple of tests have been executed and results have been compared.**

**25 transactions per second was defined as a saturation point, what corresponds 40 virtual users.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Avg | Median | 90%Line | 95%Line | 99%Line | Min | Max |
| Admin | 7 | 5 | 12 | 18 | 48 | 3 | 366 |
| Calendar | 18 | 15 | 29 | 38 | 59 | 12 | 154 |
| Comment request | 1060 | 347 | 3519 | 4314 | 5161 | 5 | 6096 |
| Contact | 15 | 12 | 22 | 35 | 51 | 10 | 229 |
| Home Page | 19 | 15 | 29 | 38 | 50 | 12 | 189 |
| Log in page | 6 | 4 | 7 | 11 | 18 | 3 | 78 |
| Log in request | 30 | 25 | 40 | 56 | 75 | 20 | 105 |
| Log out request | 25 | 21 | 37 | 45 | 56 | 17 | 61 |
| Login page request | 7 | 4 | 12 | 12 | 25 | 3 | 25 |
| Open date | 15 | 13 | 25 | 36 | 41 | 10 | 48 |
| Open edit post page request | 6 | 5 | 9 | 15 | 21 | 4 | 34 |
| Open edited post | 6 | 5 | 9 | 16 | 22 | 4 | 26 |
| Open post | 1414 | 1396 | 1786 | 1872 | 2001 | 809 | 2135 |
| Open random post | 32 | 32 | 47 | 57 | 84 | 12 | 179 |
| Predefined Date | 15 | 12 | 22 | 33 | 70 | 9 | 171 |
| Random Date | 15 | 12 | 22 | 32 | 86 | 9 | 175 |
| Random Page | 19 | 15 | 29 | 39 | 65 | 12 | 162 |
| Search | 20 | 16 | 30 | 39 | 77 | 12 | 172 |
| Update post request | 5 | 4 | 11 | 14 | 21 | 2 | 224 |

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