**Report about conducted load test**

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**Author:** Oleksandr Maksymenko

**Application:** BlogEngine.NET version 3.2

**Environment:** Host machine where script was run + Virtual Machine where blog is deployed

**Test Environment configuration(RAM, CPU etc.):**

|  |  |
| --- | --- |
| **RAM** | 4096 MB |
| **CPU** | 1 Core CPU (Intel(R) Core(TM) i7-8665U CPU @ 1.90GHz 2.11 GHz) |
| **System Type** | Windows 10 64-bit |

1. **Why such testing was conducted:** To check system’s behavior for usual Editor actions.
2. **Test script description:** Script contains actions for Editor flow. Firstly “user” opens Home page, Logs In, after that starts loop which executes 50 times: Open Predefined Date -> Open Random Post (repeat until Post, which can be edited by current Editor user, will be opened) -> Edit Post. After loop ends “user” will be logged off.

**Diagram

Description automatically generated**

1. **Tests:** 1 test runs.  
     
   **Test run preconditions:**

* 2 Editor users
* CSV file with user credentials
* Warmup actions before each test run (Log In, navigate through Blog pages, Log Out)

**Load Model** (smoke test showed that 1 execution of whole script takes > 20 min)**:**

|  |  |
| --- | --- |
| **Users** | 2 |
| **Rump up time (s)** | 1 |
| **Duration (s)** | 2400 |

1. **Short summary on conducted tests:**

* In both test executions we can observe response time was stable and not growing during run.
* Expected load was created for each of 2 users (1 opening of Main Page, 1 Log In, 50 Edit Post, 1 Log Off).
* No Server errors were observed during both tests.

1. **Detailed test results:**

**A screenshot of a computer

Description automatically generated with medium confidence**

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Description automatically generated with medium confidence**

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Description automatically generated with medium confidence**

Server’s metrics:

Chart, histogram

Description automatically generated

Graphical user interface

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

1. **Conclusion:**

* System handles with 2 concurrent Editor users, response time was not growing, throughput was stable during executions.
* CPU did not reach 100% load during executions.
* Longest response time was for Open Random Post.