**Report about conducted load test**

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**Application:** BlogEngine.NET version 3.2

**Environment:** Test Environment

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

|  |  |
| --- | --- |
| Processor | Intel(R) Core(TM) i7-10610U CPU 1.80 GHz 2.30 GHz |
| RAM | 3.95 GB |
| System type | 64-bit operating system |
| Operating System | Windows 10 Enterprise 21H1 |

1. **Why such testing was conducted:** To determine degradation point and capacity of the application
2. **Test script description:**

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1. **Tests:**   
     
   **Test run preconditions:** 110 posts created on different dates according to .csv file

**Load Model:** Capacity testing. Test was conducted for 80 users, ramp-up time is 1200 sec, duration 1200 sec, constant delay between requests 2 sec with deviation 0.10 sec.

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

According to capacity test results the comfort zone is before 55 users, and the saturation point is around 50-55 users. Degradation zone is between 55 and 65 users. Application reaches its capacity once the users count is 65-70. Test run was conducted 2 times, the results are reproducible.

1. **Detailed test results:**

According to 2 tests application stays in the comfort zone while the users count is less than 55 users. In all three cases the errors count increases dramatically once the users count reaches 50-55 users.

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1. **Conclusion:** application reaches saturation point at *1080th second of test run* when *50 virtual users* produced *90-100 requests per second*