1. Executive Summary report on durability testing:

According to the presented results, it can be seen that with an increase in the duration of the test, the throughput increased slightly (by 4.76%), but at the same time, the response time and the number of errors increased (by 35%)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Samples | Average | Median | 90% Line | 95% Line | 99% Line | Min | Max | Error % | Throughput | Received KB/sec | Sent KB/sec |
| 1CPU; 8GB RAM | 84 | 310 | 130 | 415 | 570 | 3679 | 0 | 4318 | 0.00% | 44.1/min | 33.62 | 7.49 |
| Durability test(1hour) | 2308 | 176 | 85 | 350 | 635 | 1437 | 0 | 31247 | 35.05% | 46.2/min | 15.83 | 6.54 |
| difference | +2647.62% | -43.23% | -34.62% | -15.66% | +11.40% | -60.94% | 0 | +623.65% | +35.05% | +4.76% | -52.91% | -12.68% |

1. Recommendations   
     
   In conclusion, we can say that this system is not ready to work over a long period of time and needs to be improved.
2. Test Objectives

* Get an experience on durable/longevity/stability testing.
* Get an experience on load parameters definition for the long-time testing.
* Learning how to identify bottlenecks and possible issues for long-time running systems.
* Carry out durability testing of the Blog Engine application and prepare a testing report

1. Test Configuration

|  |  |
| --- | --- |
| Number of Treads(users) | 3 |
| Rump-up period(seconds) | 1500 |
| Loop Count | infinite |
| Duration(seconds) | 3000 |

1. Quality Criteria  
     
   For the application Blog Engine, NFR (acceptance criteria) were not defined, but given the specifics of the task, since the baseline is task 7, the resulting values ​​should not be higher than the values ​​of task 7
2. Test Scenarios  
     
   https://github.com/Dingo69/PerformanceProgram2022
3. Test Results

The durability test results below show that over time, the response time grows in leaps and bounds, in parallel increasing the number of server errors.

