Load Testing Report

Device characteristics

- CPU: *Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz*
- RAM: *32.0 GB DDR3*
- OS: *Windows 10 Pro*

Fixed number of users over time

This test was performed to test the application behavior for a fixed number of users making requests. Below can be found several charts describing the application behavior:

Figure 1. *Requests per second, Response time and Number of users. Number of users was set to 100.*

Figure 1 shows how for numbers of users equal to 100 the average of the total requests per second falls between 7 and 10. Meanwhile 99% the response time of each request was a little less than 15 seconds.

Increasing the number of users over time

This test was performed to test the application behavior for an increasing number of users making requests. Below can be found several charts describing the application behavior:

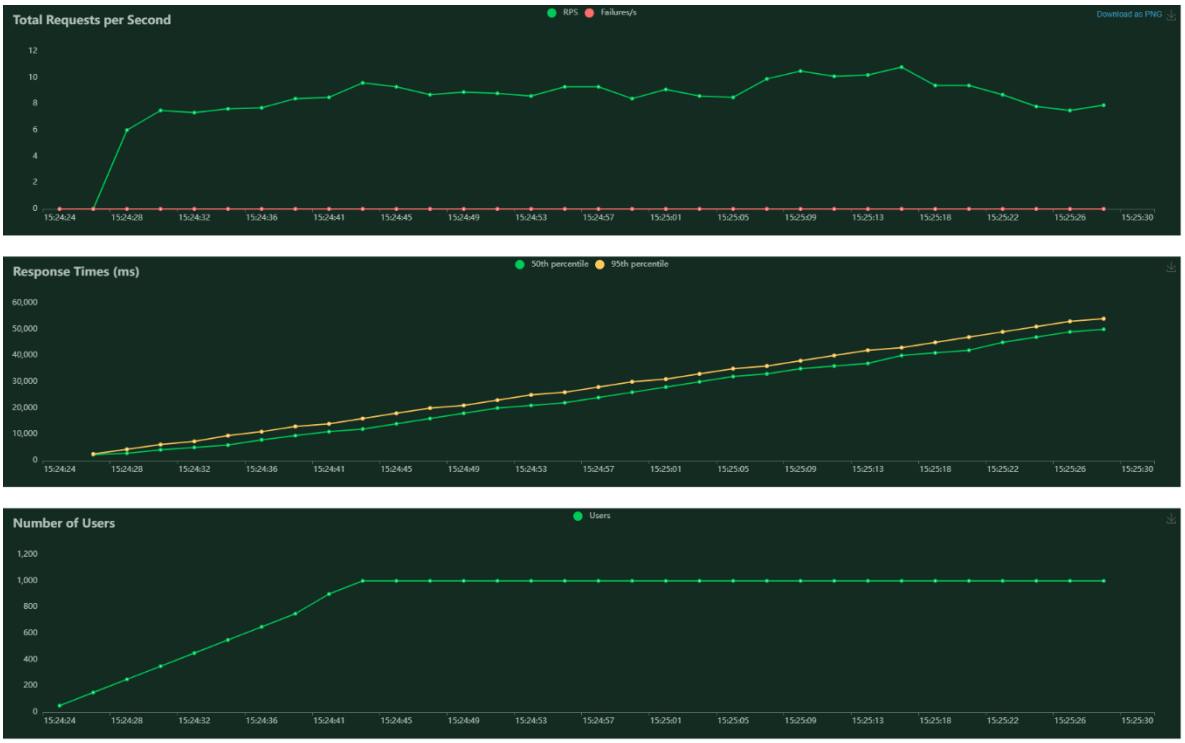

Figure 2. *Requests per second, Response time and Number of users. Maximum number of users was set to 1000.*

Figure 2 shows the average of the total requests per second falls between 8 and 11. On the other hand, the response time seems to be increasing over time without signals of stopping its increment.

Increasing the number of instances for increasing number of users

This test was performed to test the application behavior for an increasing number of users making requests with more instances for the model service. Below can be found several charts describing the application behavior:

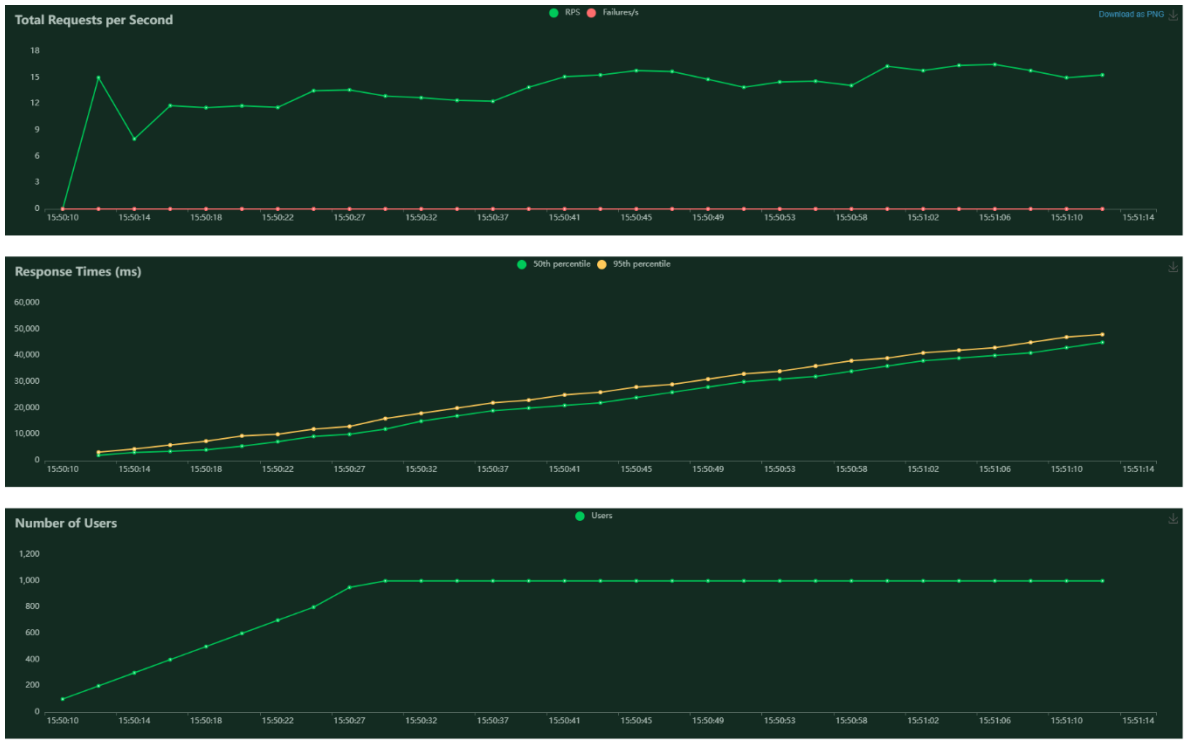

Figure 3. *Requests per second, Response time and Number of users. Maximum number of users was set to 1000 and the number of instances for model service was set to 2.*

Figure 3 shows the average of the total requests per second are higher than in previous experiment as it falls between 12 and 16. On the other hand, the response time seems to be increasing over time without signals of stopping its increment, but it is lower than that obtained in the previous experiment.