



Performance Report Blueriq 12.2 (JAVA + MSSQL)

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DISCLAIMER

The results in the following report have been achieved on a specific hardware, software and application combination. The results in this report may differ from results on other combinations of hardware, software, custom code and application settings. No rights can be derived from this document.

It is strongly recommended to perform appropriate performance tests on the application that is modelled with Blueriq before taking it into production.

1 INTRODUCTION

Performance testing is a type of testing intended to determine the responsiveness, throughput, reliability, and/or scalability of a system under a given workload.

This report provides an overview of the performance testing approach and test results for the performance tests for **Blueriq 12.2 (JAVA + MSSQL)**. The purpose of this report is to give insight in the performance of a typical Blueriq application on a typical hardware configuration. This enables Blueriq customers to estimate the performance characteristics of a Blueriq application in production and to assess infrastructure adequacy.

How to use this report

Testing and reporting on performance is complex since it depends on a large number of variables. In the [documentation on the Blueriq Community](#) (*) you can find the test approach and assumptions for the tests. It contains the reference application, user scenarios, the test environment, the test methodology, key performance indicators and the acceptance criteria.

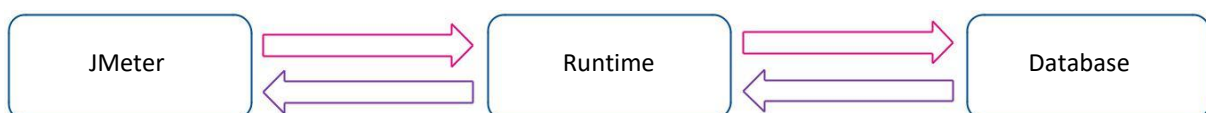
Chapter 2 summarizes the test results for the performance tests with Blueriq 12.2 (JAVA + MSSQL).

The results from performance testing and analysis can help Blueriq customers to estimate the hardware configuration required to support the application(s) when “going live” to production operation.

(*) <https://my.blueriq.com/display/DOC/Performance+Reports>

1.1 TEST ENVIRONMENTS

Three separate virtual machines were used in this test: one for the Blueriq Runtime, one for the database server and one for the JMeter application which simulates the user load and runs the performance script.



The following are the specifications for each server:

JMeter machine:

- OS Windows Server 2016 Standard
- Intel® Xeon® CPU E5-2680 v2 @ 2.80GHz 2.79GHz (2 processors)
- 2,00 GB memory (RAM)
- 39,10 GB HDD

Runtime server:

Server hardware

- Intel® Xeon® CPU E5-2680 v2 @ 2.80GHz 2.79GHz (4 processors)
- 5 GB Memory
- 39,10 GB HDD

Server OS/AS/Database

- Windows Server 2016 Standard
- JBoss 7.2 EAP
- JAVA 1.8.0 Update 151

Database server:

Server hardware

- Intel Xeon E5-2680 @ 2.80 Ghz (4 processors)
- 4 GB RAM

Server OS/AS/Database

- Windows Server 2016 OS
- MSSQL 2017

2 TEST RESULTS

The test results below show the results of all individual steps of scenario 2 (a description of this scenario is to be found on <https://my.blueriq.com/display/DOC/Performance+Reports>) with Blueriq 12.2 (JAVA + MSSQL). The individual steps in all other scenarios are (approximately) equal to one of the steps in the scenario below.

For each step (Key Performance Indicator) the following values are given:

- The T-value used for calculating the Apdex value (as defined on the Blueriq community in chapter 2)
- The Apdex value with the colour indicating the rating (as defined on the Blueriq community in chapter 2)

Key Performance indicator (Dutch)	Actions	T-Value (ms)	Apdex value R11.7	Apdex value R11.8	Apdex value R11.9	Apdex value R11.10	Apdex value R11.11	Apdex value R12.2
1. Start OndernemerDashboard	Start application; Display login screen	500	1,00	1,00	1,00	1,00	1,00	1,00
2. Login	Login applicant; Display Applicant dashboard	500	0,99	1,00	1,00	1,00	1,00	1,00
3. Starten Aanvraag	Display dashboard with simple form	500	1,00	1,00	1,00	1,00	1,00	1,00
4. Press OK in aanvraag	Create case; Create tasks(2); Display Applicant Case dashboard	3000	0,90	0,97	0,95	0,95	0,91	1,00
5. Opvoeren aanvraaggegevens start	Start task; Display Applicant Form	500	0,91	0,98	0,93	1,00	0,96	0,95
6. Invullen en press OK	Validate form; Update case; Close task; Decision logic; Display Applicant Case dashboard	1000	0,88	0,84	0,86	0,91	0,95	0,89
7. Toevoegen bewijsstukken start	Start task; Display; Dashboard with simple form	500	1,00	1,00	0,99	0,98	0,99	0,98
8. Press OK	Update case; Upload document (42 Kb); Close task; Decision logic; Create task; Display Applicant Case dashboard	2000	0,98	0,95	0,97	1,00	0,98	0,98
9. Indienen aanvraag start	Start task; Display dashboard with simple form	500	0,98	0,96	0,99	1,00	0,98	0,99
10. Invullen en press OK	Update case; Close task; Decision logic; Create task (beoordelen); Display Applicant Case dashboard	2000	0,89	0,76	0,91	0,78	0,82	0,76
11. Logout	Logout;	500	1,00	1,00	1,00	1,00	1,00	1,00

12. Start OverheidsDashboard	Start application; Display login screen	500	1,00	1,00	1,00	1,00	1,00	1,00
13. Login intaker	Login; Knowledge Worker Overview dashboard	2000	0,98	0,98	0,99	0,91	0,89	0,95
14. Neem aanvraag in behandeling	Assign handler; Create tasks (2x); Knowledge Worker Case dashboard; Knowledge Worker Overview dashboard	2500	0,49	0,48	0,48	0,50	0,50	0,50
15. Controleren juistheid	Open task; Display dashboard + simple form	500	0,94	0,93	0,94	0,86	0,80	0,81
16. Invullen en press OK	Decision logic; Create task; Knowledge Worker Case dashboard	1500	0,82	0,74	0,86	0,59	0,57	0,57
17. Logout	Logout;	500	1,00	1,00	1,00	1,00	1,00	1,00
18. Start OverheidsDashboard	Start application; Display login screen	500	1,00	1,00	1,00	1,00	1,00	1,00
19. Login beoordeler	Login; Knowledge Worker Overview dashboard	2000	1,00	1,00	1,00	1,00	1,00	1,00
20. Neem aanvraag in behandeling	Assign handler; Create tasks (2x); Knowledge Worker Case dashboard; Knowledge Worker Overview dashboard	2600	0,61	0,68	0,70	0,51	0,50	0,50
21. Beoordelen inhoudelijke toets	Open task; Display dashboard + simple form	500	0,97	0,95	0,97	0,95	0,92	0,96
22. Invullen en press OK	Update case; Close task; Decision logic; Generate document (~90 Kb); Knowledge Worker Case dashboard	2500	1,00	1,00	1,00	1,00	1,00	1,00
23. Logout	Logout	500	0,96	0,95	0,96	0,97	0,98	0,97

3 CONCLUSION

For Blueriq 12.2 the performance is rated as stable with the previous versions.