LOAD TESTING REPORT

**Test objectives**

Performance testing was conducted on <www.deezer.com/en/> for the purposes of determining the baseline performance.

**General test conditions**

Testing activities was performed on actual working production configuration.

User scenario consists of next actions:

* Login
  + Navigating to www.deezer.com/en/
  + Login action
* Search for artist
* Select random album
* Play all tracks from album

Login is executed only once for all concurrent users.

Test was run with 50 of concurrent users with gradually increasing during 5 minutes. The overall time of test is 15 minutes.

**Test results**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Label | # Samples | Average | Median | 90% Line | 95% Line | 99% Line | Min | Max | Error % | Throughput /sec |
| Open Login Page | 50 | 1139 | 1125 | 1184 | 1237 | 1352 | 1073 | 1352 | 0,00% | 0,16943 |
| Login action | 50 | 3863 | 3779 | 4202 | 4251 | 4636 | 3492 | 4636 | 0,00% | 0,16655 |
| Search artist | 2480 | 1264 | 1260 | 1485 | 1578 | 1766 | 694 | 4748 | 0,00% | 2,78375 |
| Select Album | 2463 | 1778 | 1761 | 2762 | 2933 | 3193 | 420 | 11671 | 0,00% | 2,77667 |
| Play tracks | 2447 | 1574 | 1503 | 2757 | 3101 | 4541 | 364 | 14671 | 0,00% | 2,77406 |

**Conclusion**

The goal of load testing was successfully achieved. An Apache Jmeter script was created. During the test there were no errors at all. Almost all transactions except Login was within the permissible norm. Login transaction 90th line is 4202 ms. This is still acceptable but can be improved to increase user’s satisfaction. It also hard to analyze Play tracks transaction because we can’t predict number of tracks in album and it differs in each thread and loop.

Overall, system is working fine under conducted load. More tests should be done to check how system works under higher load.