

Performance Testing Report - 1h.Load test: 50Vusers_12122024

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Date:


2024-12-12 07:56:52 - 08:56:52


SUT:

Raspberry Pi 4 Model B

- **CPU:** Arm Cortex-A72 @ 1.8GHz (Quad-core)
- **RAM:** 2GB LPDDR4 + 2GB Swap Memory
- **Storage:**
 - SD Card: 64GB
 - Partition 1: 512MB (/boot/firmware)
 - Partition 2: 58.9GB (Root /)
- **Network:** Wireless (Broadcom 43430)
- **OS:** Debian GNU/Linux 12 (Bookworm)

 **Raspberry Pi**
Connect Beta



 Personal

Devices

Add device

[PROD](#)
Last seen less than a minute ago

Screen sharing Remote shell

Connect via

[QACluj](#)
Last seen less than a minute ago

Screen sharing Remote shell

Connect via

[raspberrypi 400](#)
Last seen less than a minute ago

Screen sharing Remote shell

Connect via

Target Server Name: QACluj

Dockerized 2 containers:

QACluj remote shell - Raspberry Pi Connect - Google Chrome

connect.raspberrypi.com/devices/1204adf8-8fe4-444a-be57-35838693f568/remote-shell-session

```
sebi@raspberrypi:~$ pwd
/home/sebi
sebi@raspberrypi:~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
3db0e4ee14e1   solr:latest    "docker-entrypoint.s..." 11 hours ago  Up 11 hours  0.0.0.0:8983->8983/tcp, :::8983->8983/tcp  solr-container
dcca0ee41d1    alexstefan1702/php-apache-arm "docker-php-entrypoi..." 11 hours ago  Up 11 hours  0.0.0.0:8080->80/tcp, [::]:8080->80/tcp  apache-container
sebi@raspberrypi:~$
```


Application: Apache SOLR
Build Version: 9.7.0

Instance


Start

about 8 hours ago


Versions

 solr-spec


9.7.0

 solr-impl

9.7.0 675a41516e3f3bacfc975590773e7abdca444ff4 - anshum - 2024-09-03 15:05:20

 lucene-spec

9.11.1

 lucene-impl

9.11.1 0c087dfdd10e0f6f3f6faecc6af4415e671a9e69 - 2024-06-23 12:31:02

Physical memory - 1.80Gb
Swap Space - 2000Mb
File Descriptor Count - 1048576
JVM Memory - 512Mb

Performance test scenario:

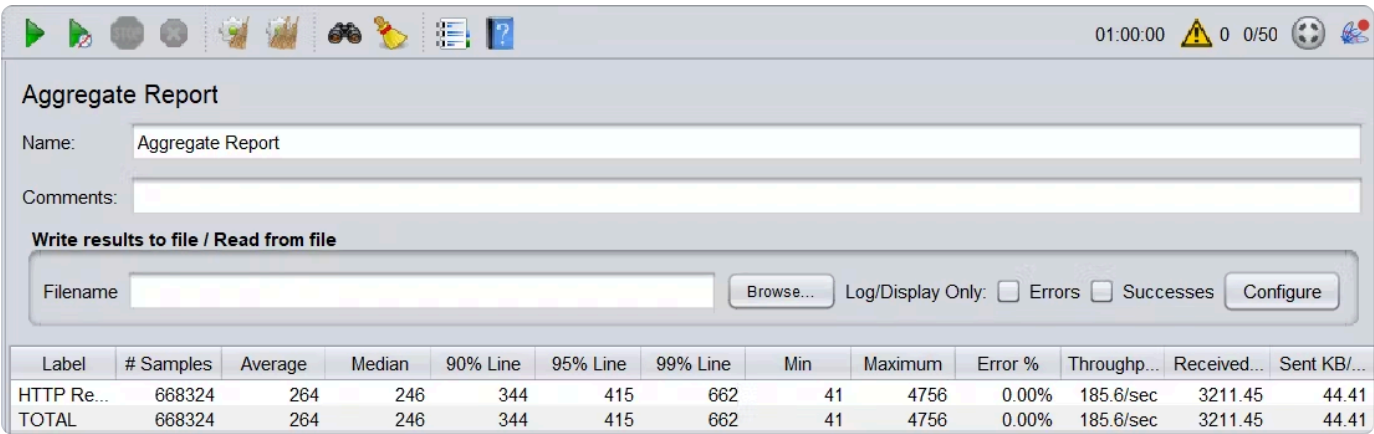
- Get Request: Open SOLR page <http://peviitor.go.ro/>
- Workload: 50 VUsers
- Duration: 60 min.
- Ramp-Up: 10 sec.

Test scope:

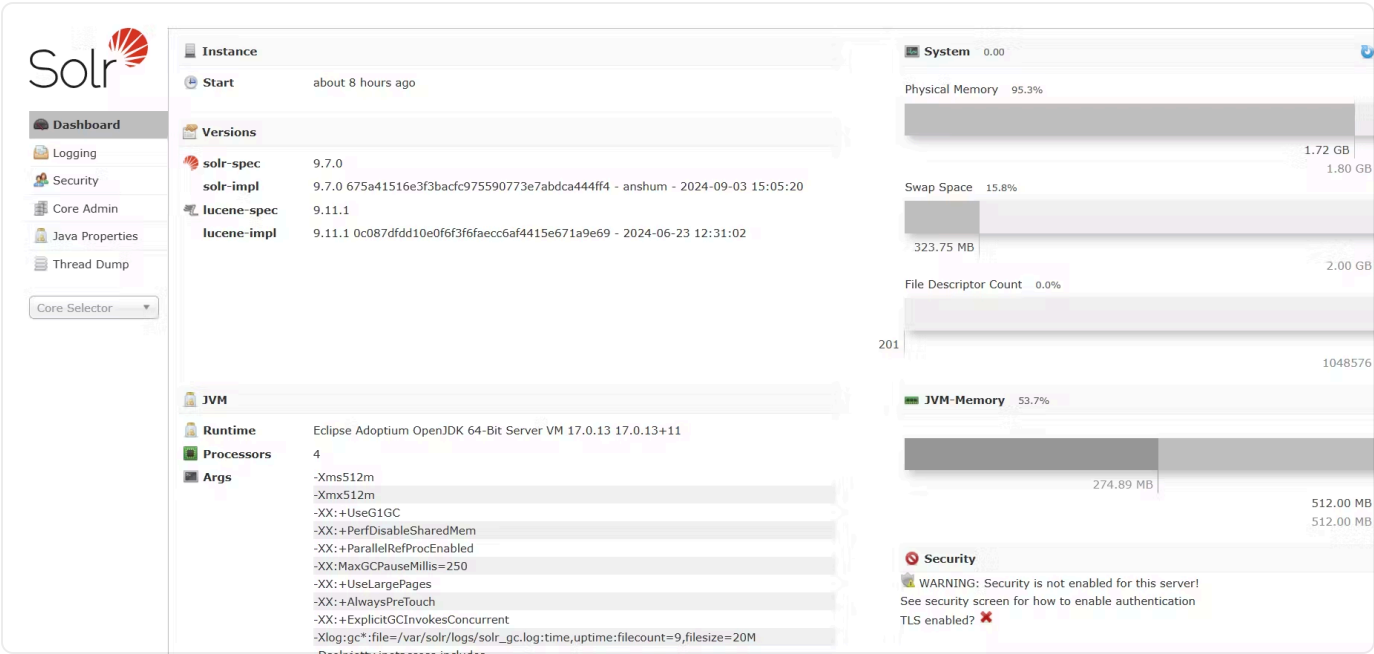
- Error rate <2%
- CPU < 85%
- Memory <95%

Test results:

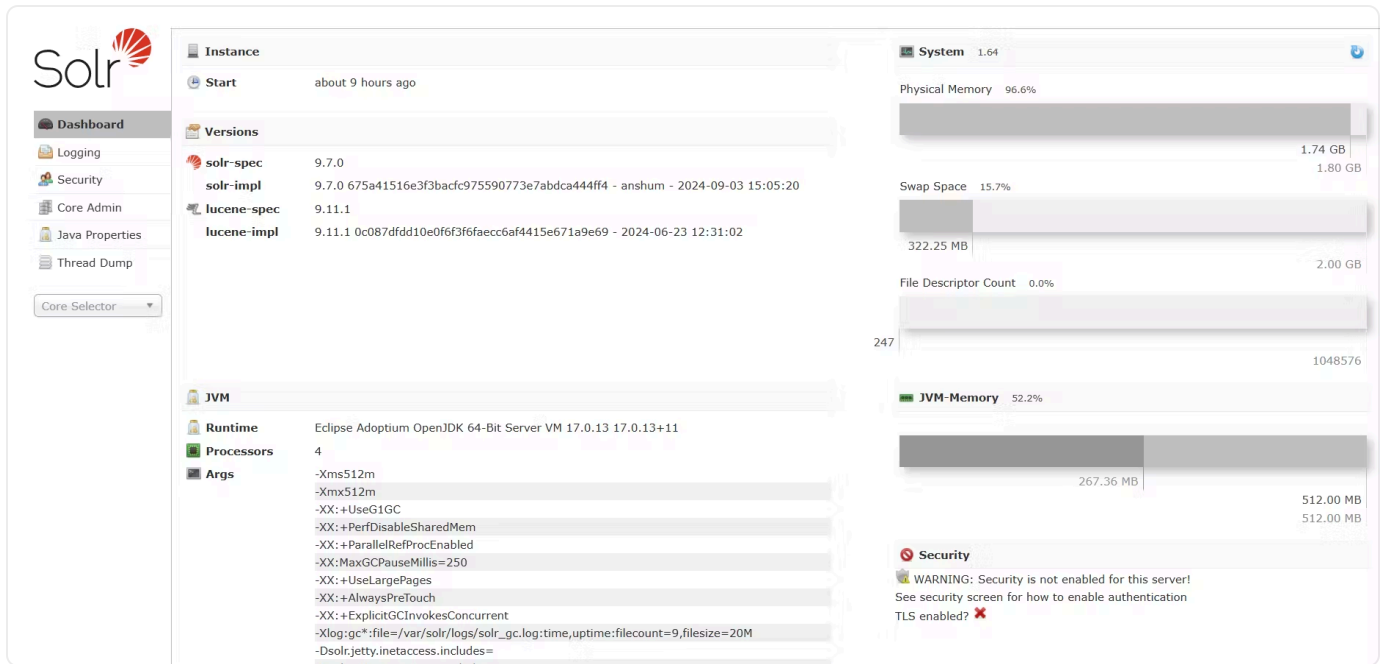
JMeter Aggregated Report:



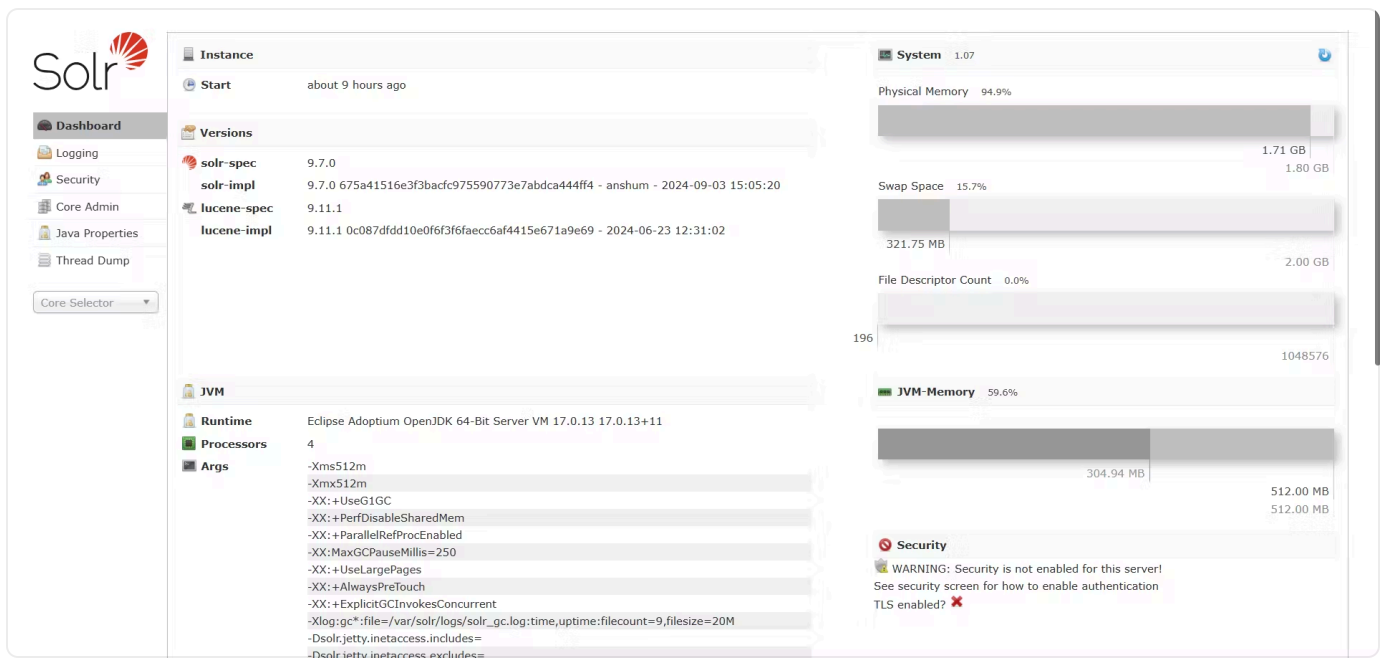
SOLR state: Before test



During test



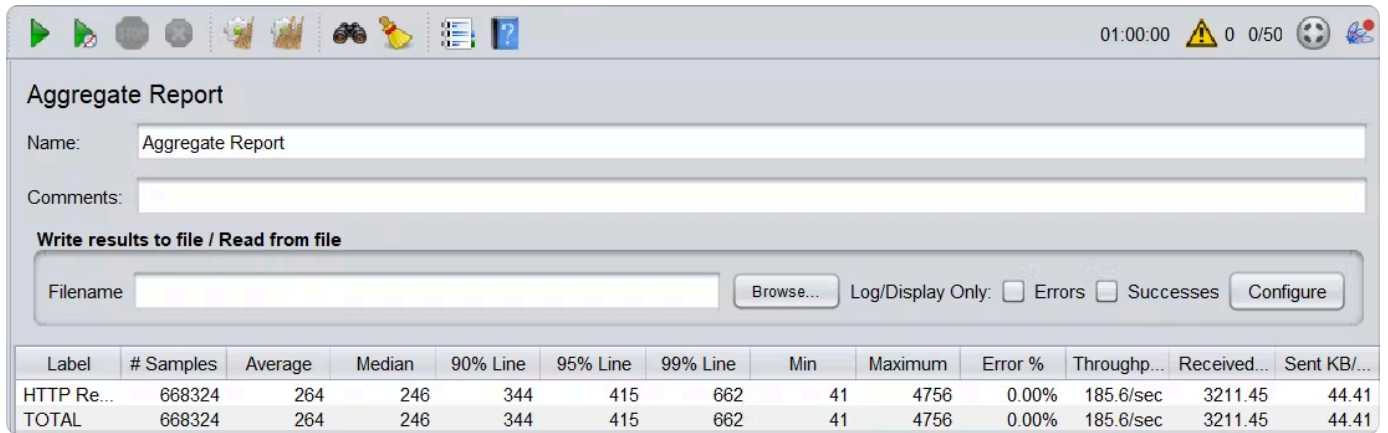
After test



Server-side performance:



Conclusion:



After 60 min load test was observed that the system is able to handle 185.6 requests per second, delivering 668324 responses with a response time between 246 ms to 344 ms. No issues were identified during the test run.

System resource consumption is within acceptable parameters.

Next step:

1. Run a capacity test to find the saturation point
2. Run test script with insert jobs.

Recommendation: The number of VUsers can be increased for the next text