

# Performance Testing Report - Benchmarking test: 50Vusers\_06122024

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Date:


2024-12-06 01:51:56 - 2024-12-06 02:06:56

## 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



Dashboard

Logging

Security

Core Admin

Java Properties





Thread Dump

Core Selector

Instance

Starta day ago

Versions

	<b>solr-spec</b>	9.7.0
	<b>solr-impl</b>	9.7.0 675a41516e3f3bacfc975590773e7abdca444ff4 - anshum - 2024-09-03 15:05:20
	<b>lucene-spec</b>	9.11.1
	<b>lucene-impl</b>	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:

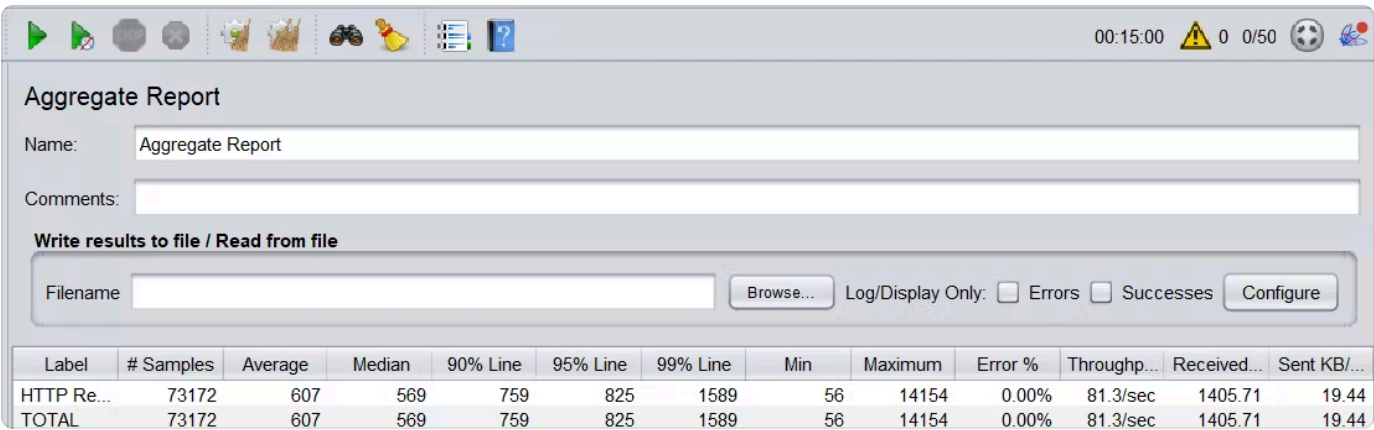
- Get Request: Open SOLR page <http://peviitor.go.ro/>
- Workload: 50 VUsers
- Duration: 15 min.
- Ramp-Up: 10 sec.

Test scope:

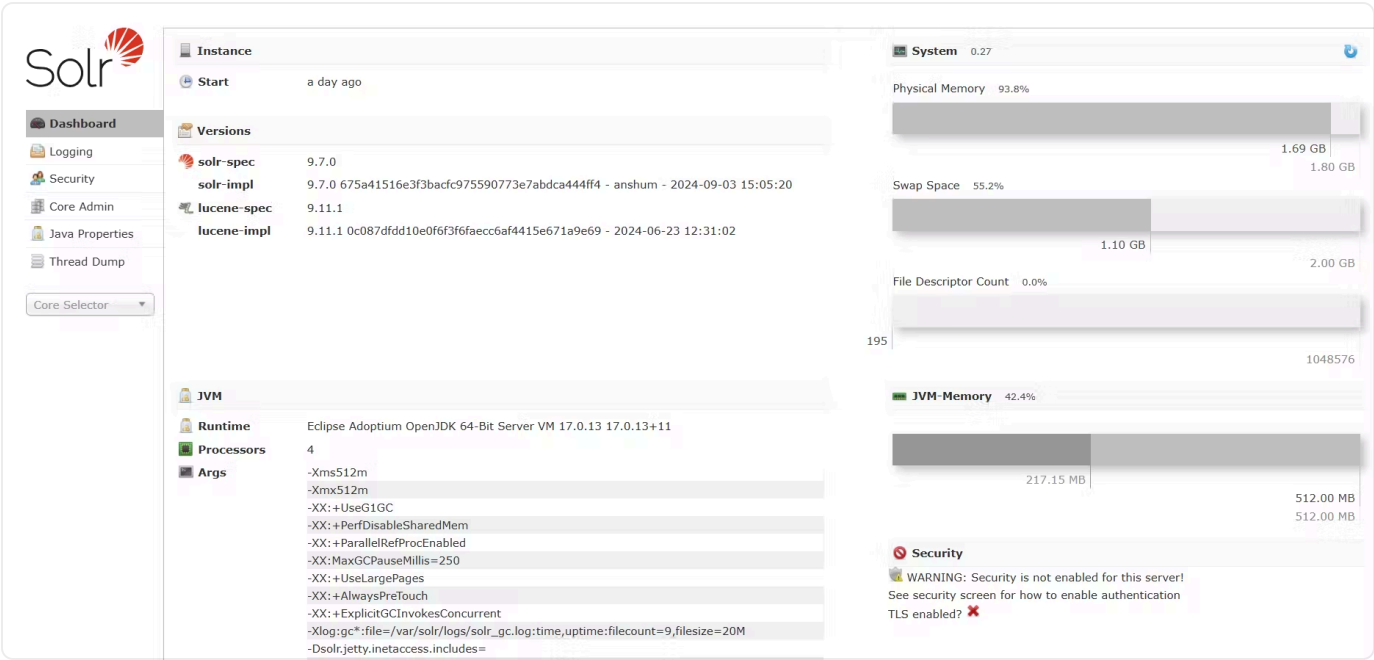
- Error rate <0%
- CPU < 85%
- Memory <95%

# Test results:

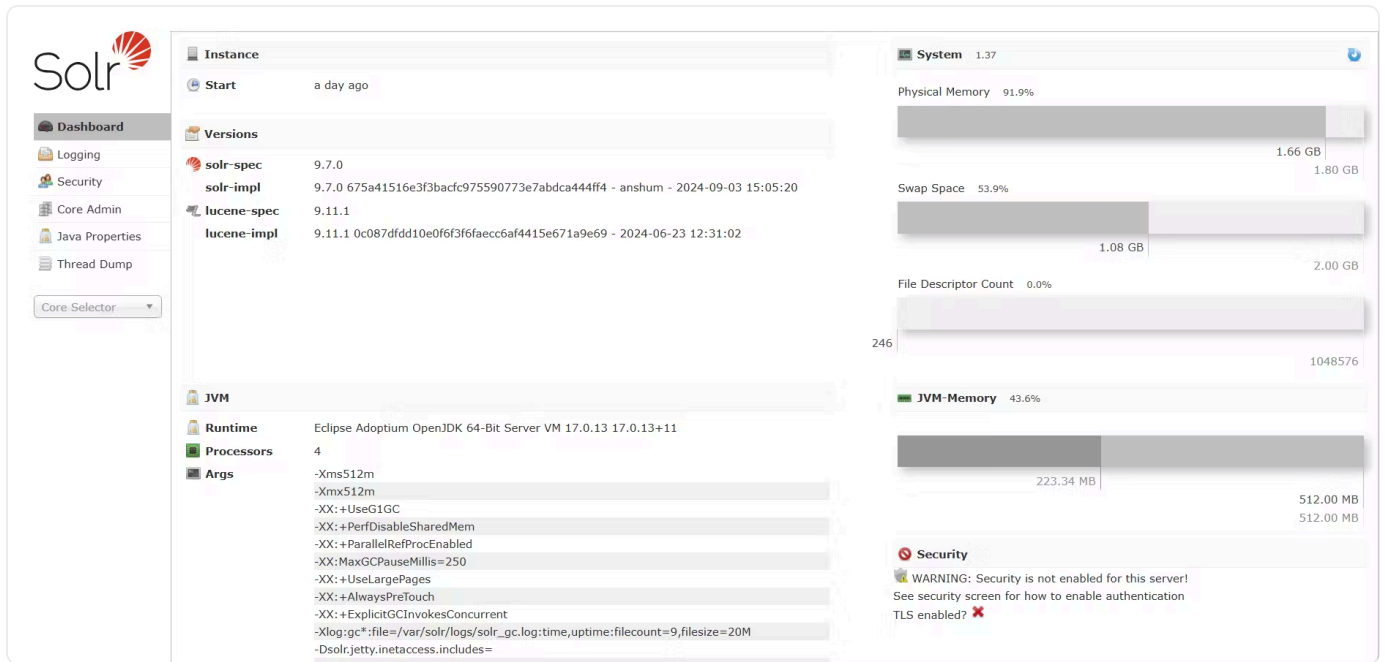
## JMeter Aggregated Report:



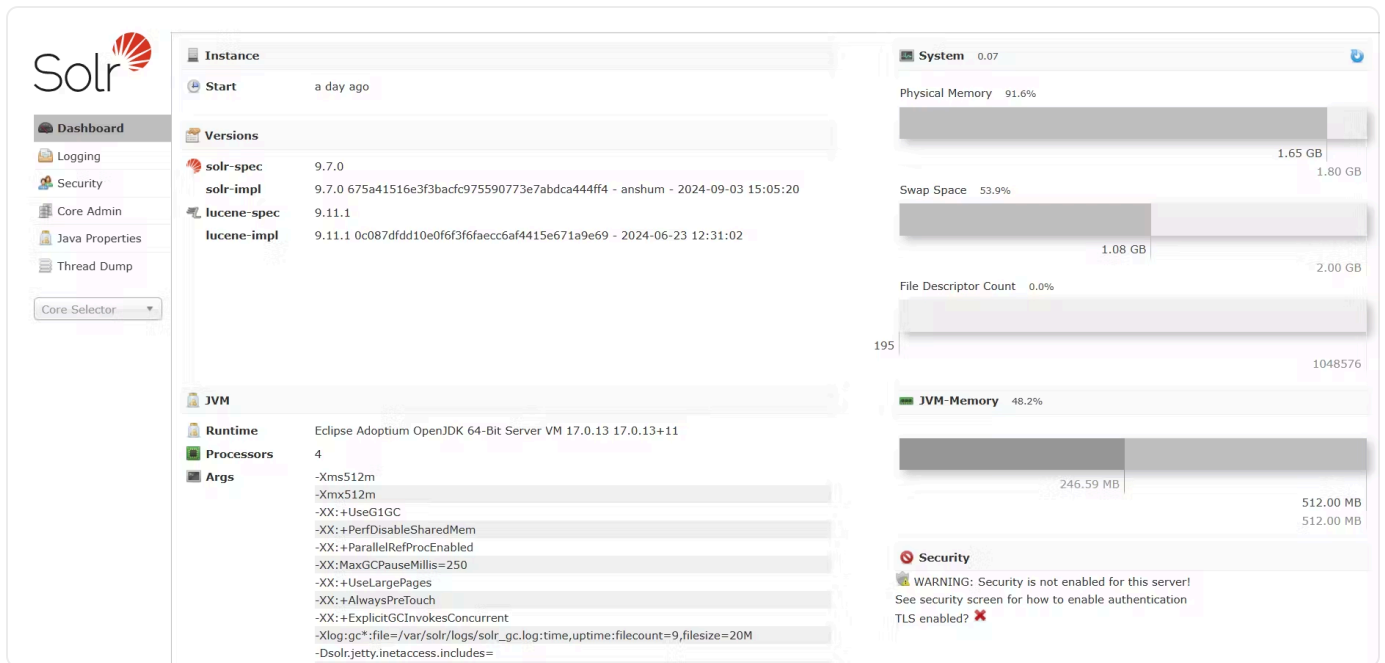
## SOLR state: Before test



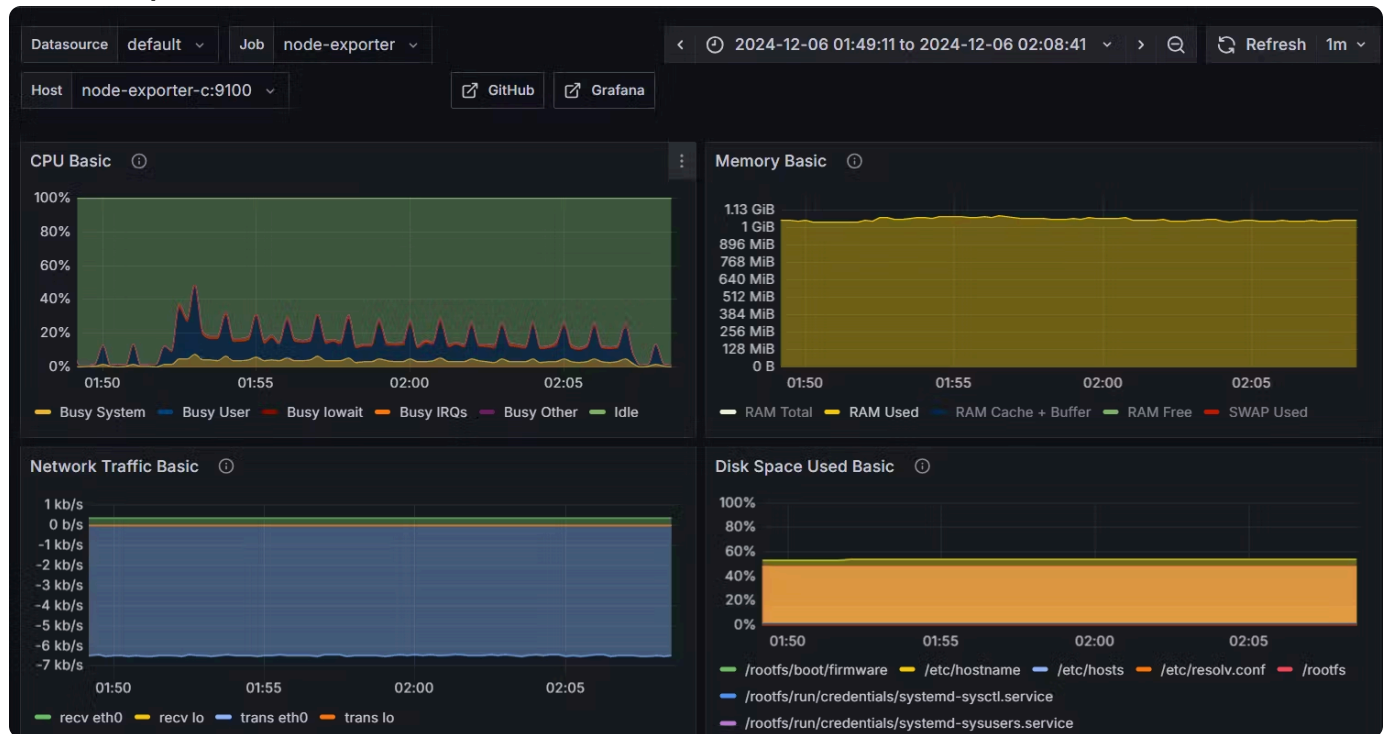
## During test



## After test



## Server-side performance:



## Conclusion:

The system is able to handle 81.3 requests per second, delivering 73,172 responses with a response time between 569 ms to 759 ms. No issues were identified during the test run.

System resource consumption is within acceptable parameters.

Next step: Run a capacity test to find the saturation point.

1-hour load test with the possibility to increase workload.