

Performance Testing Report - Load Test

100VUsers

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Date: 2024-08-25 01:03:16

SUT:

- 1 Machine: CPU i7-10th generation
- Memory: 32GB

EPUAKYIW0741
HP EliteBook 850 G7 Notebook PC

Device specifications

Device name	EPUAKYIW0741
Processor	Intel(R) Core(TM) i7-10610U CPU @ 1.80GHz 2.30 GHz
Installed RAM	32.0 GB (31.6 GB usable)
Device ID	45C2DD23-F220-45C8-B0E3-BA253EF345D8
Product ID	00330-80000-00000-AA282
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

Operating system: Windows 11 Enterprise

Windows specifications

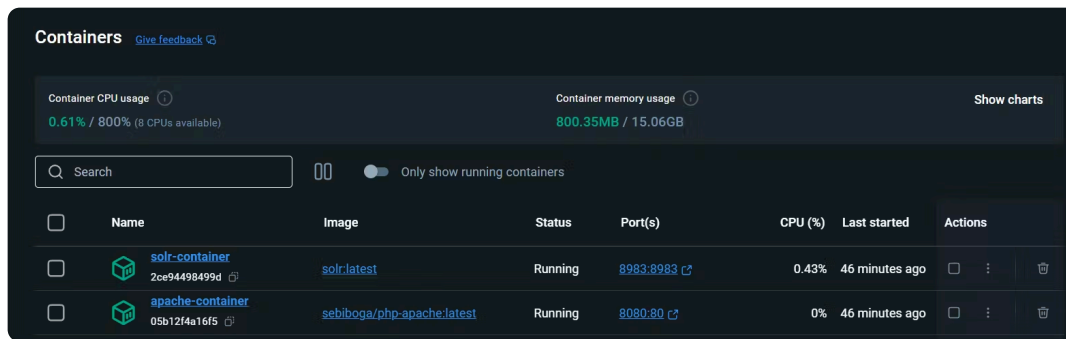
Edition	Windows 11 Enterprise
Version	23H2
Installed on	4/10/2024
OS build	22631.3880
Experience	Windows Feature Experience Pack 1000.22700.1020.0

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Dockerized 2 containers:

- solr-container:** 15.06GB RAM, CPU 0.38%
- apache-container:** 15.06GB RAM, CPU 0.01%

Containers:



IPs:

-apache-container --network mynetwork --ip 172.18.0.11 -d -p 8080:80 -v
-solr-container --network mynetwork --ip 172.18.0.10 -d -p 8983:8983 -v

Note: The machine is connected to the Internet via WIFI.

Application: Apache SOLR

Build Version: 9.6.1

The screenshot shows the Solr Admin UI. On the left is a sidebar with the Solr logo and navigation links: Dashboard (selected), Logging, Security, Core Admin, and Java Properties. The main content area is divided into two sections. The top section, 'Instance', shows the 'Start' button and the time '39 minutes ago'. The bottom section, 'Versions', lists the installed versions:

Component	Version
solr-spec	9.6.1
solr-impl	9.6.1 d7f7166567f52f1b31e3315b0188e11f2c4c9b60 - houston - 2024
lucene-spec	9.10.0
lucene-impl	9.10.0 695c0ac84508438302cd346a812cfa2fdc5a10df - 2024-02-14 1

Test scenario:

- Select 1 job out of 250.000.000 from apache SOLR

Performance test scenario:

- Workload: 100 VUsers;
- Ramp-Up: 60 sec;
- Duration: 60 min.

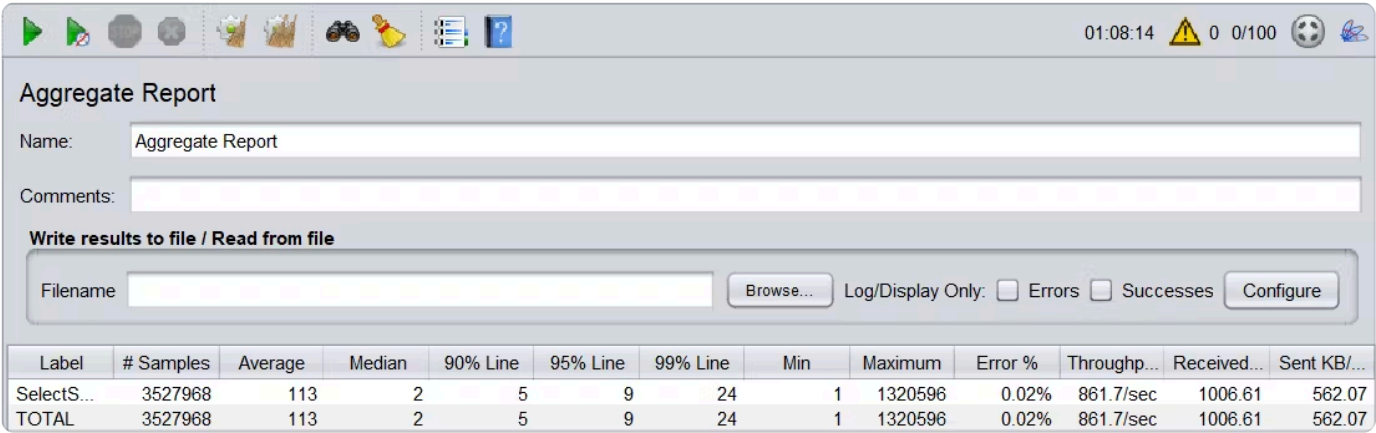
Test scope:

- Error rate is 0%;
- CPU < 85%

- Memory <95%

Test results:

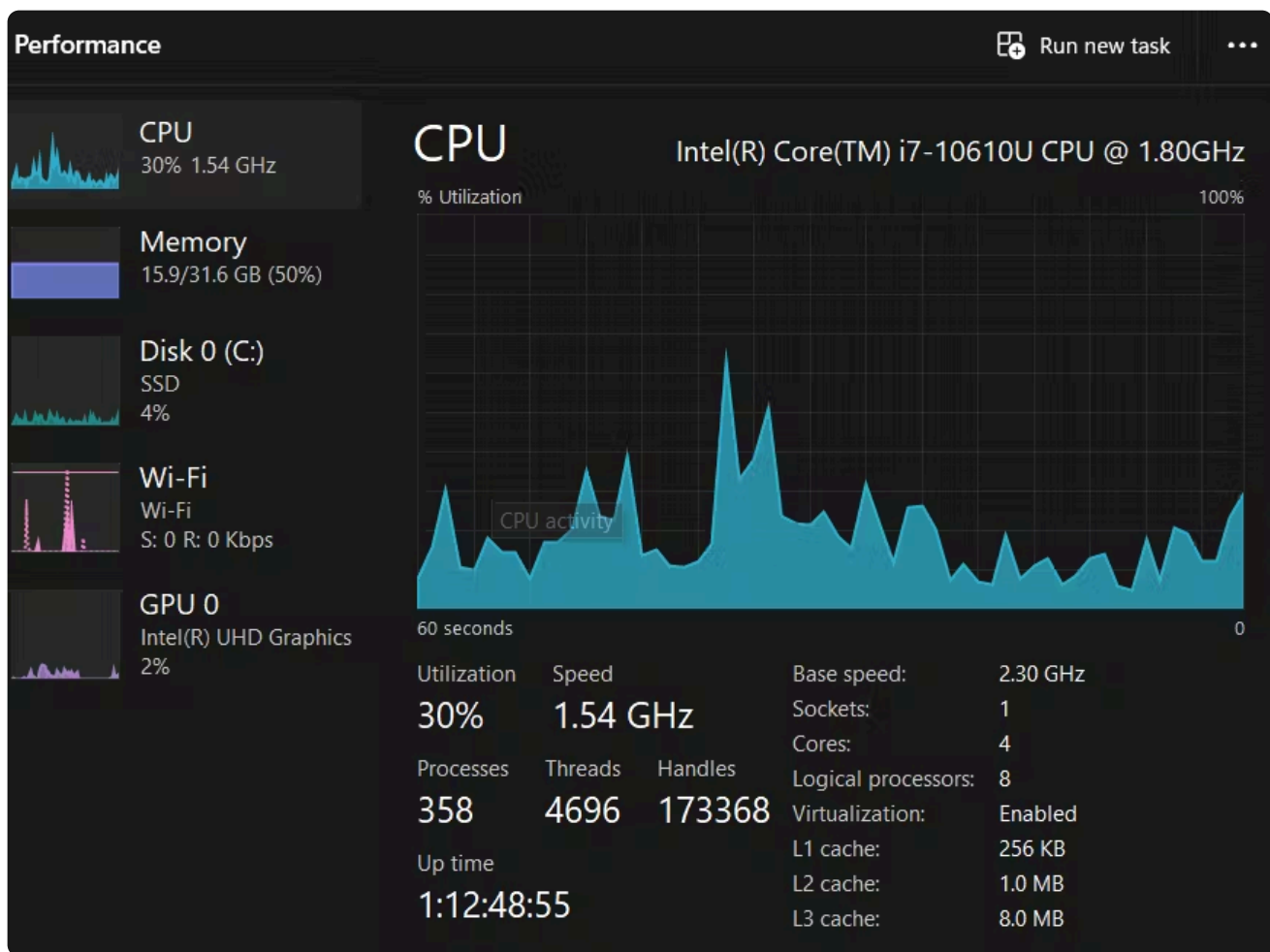
JMeter Aggregated Report:



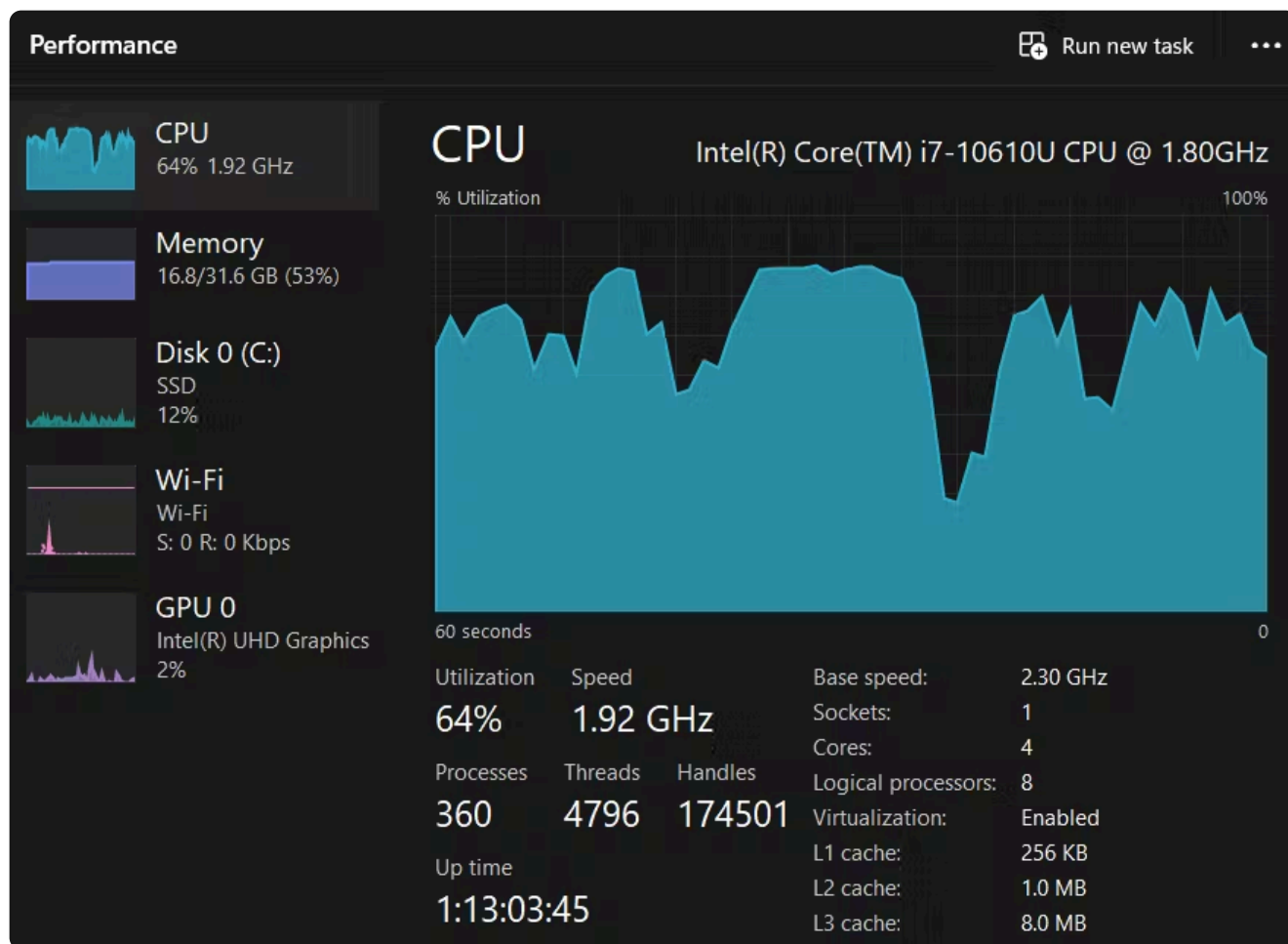
Docker



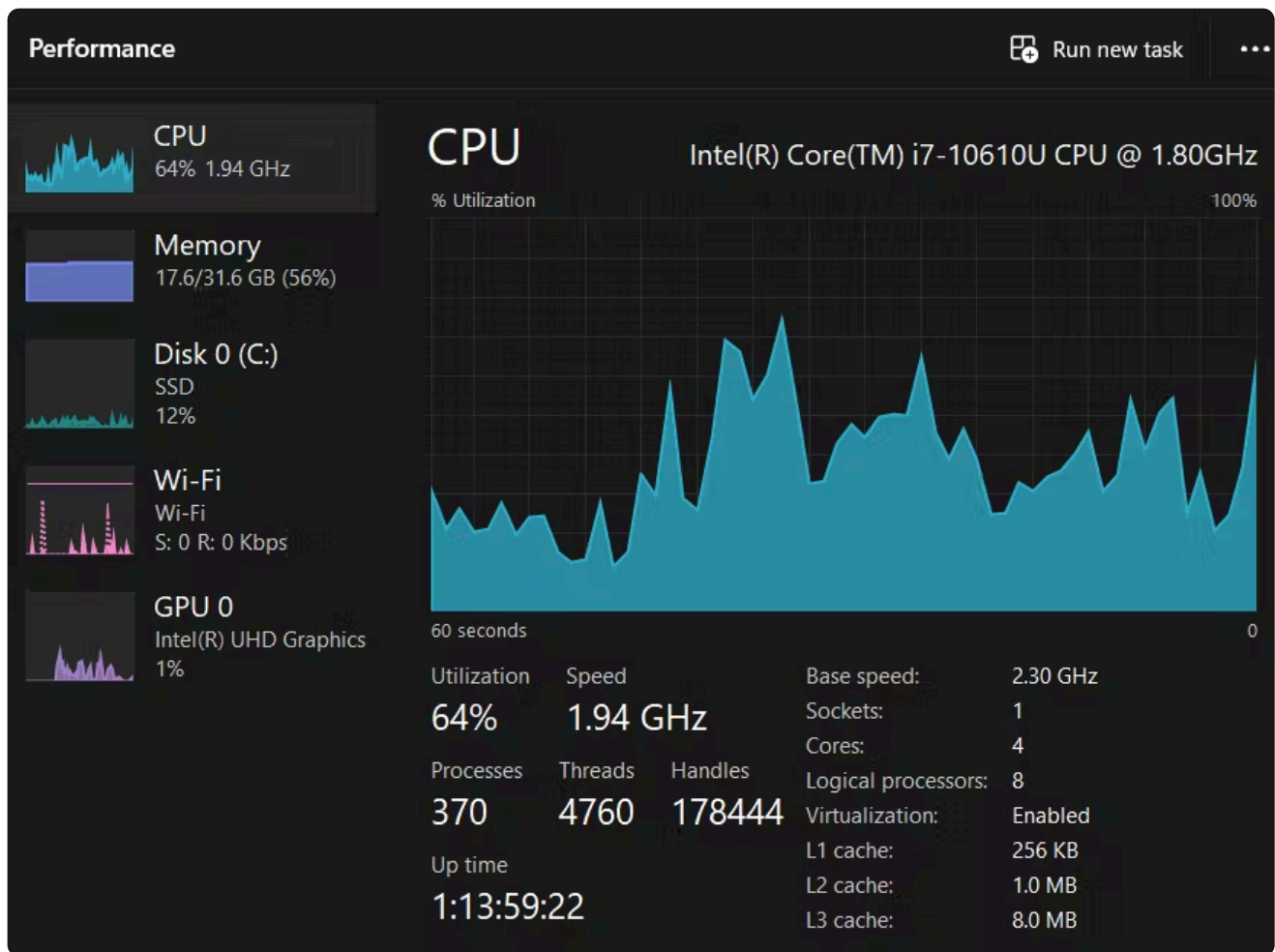
System Performance
Before:



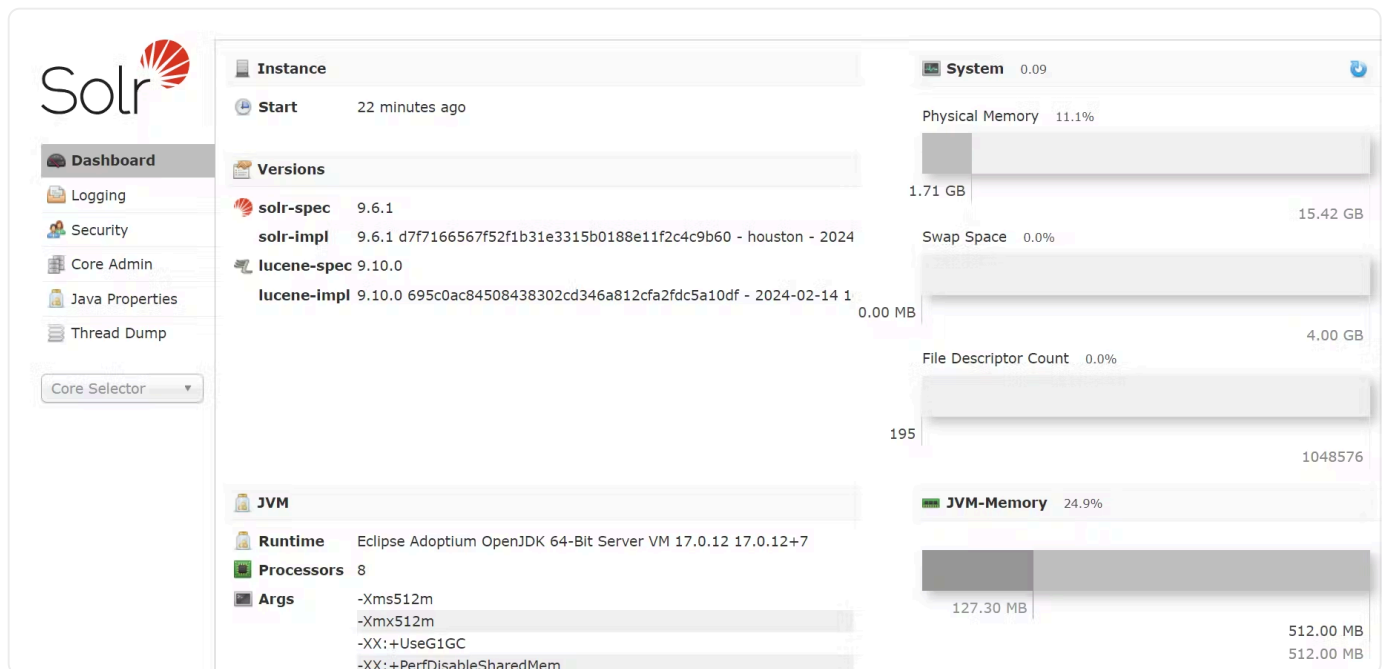
During:



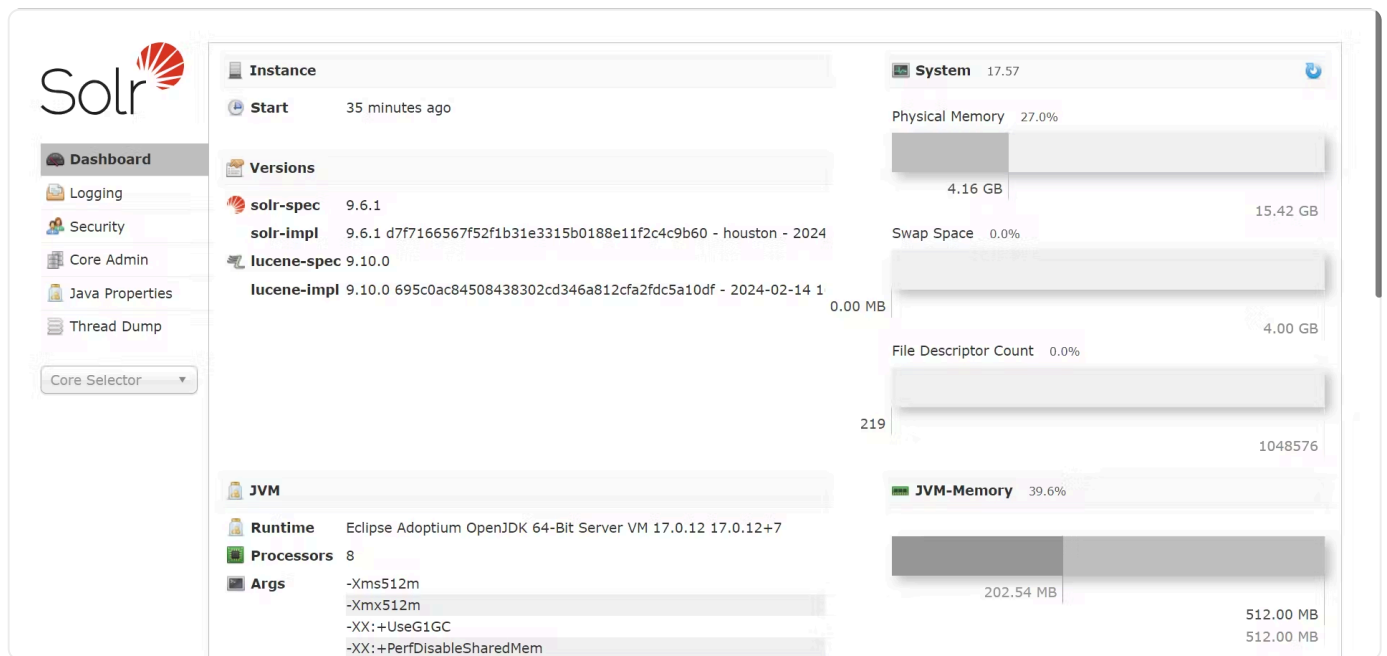
After:



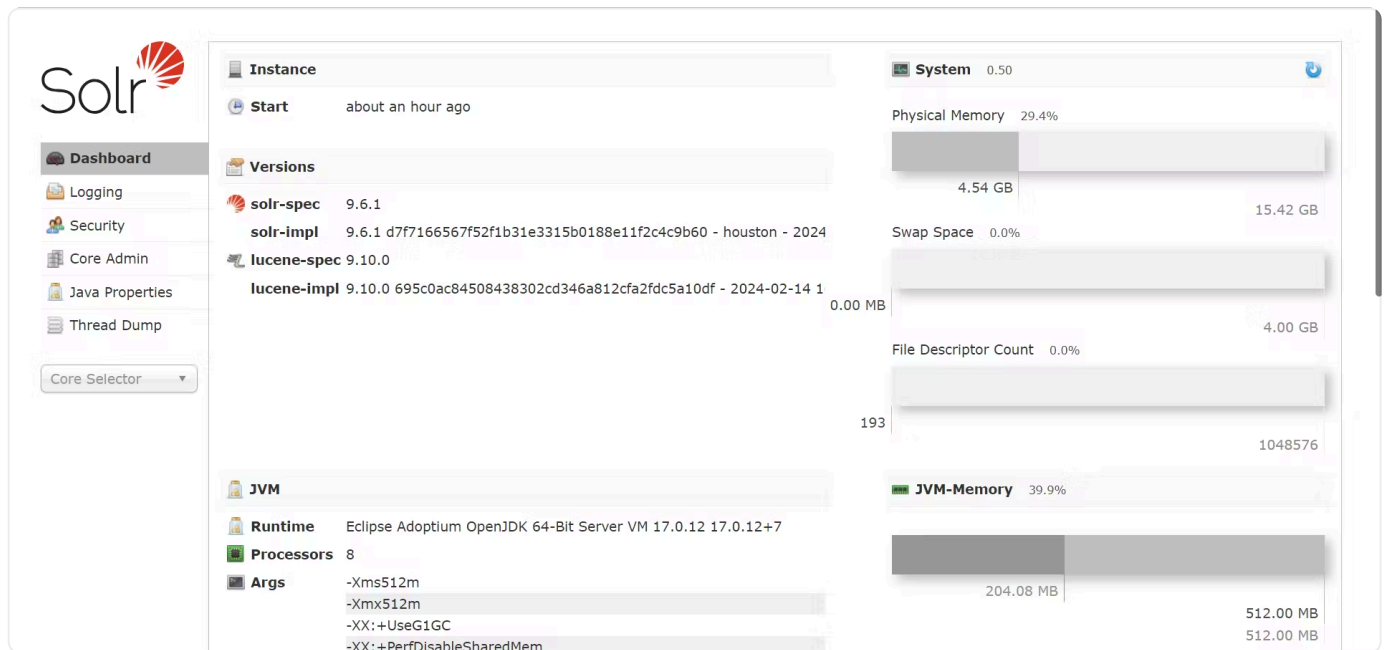
SOLR
Before:



During:



After:



Conclusion:

- Error rate is 0.02%;
- CPU < 85%
- Memory < 95%

System is able to handle 861.7 requests per second, delivering 3527968 responses with a response time between 2 ms .. 5ms.