


Performance Testing Report - Load Test: 100VUsers


 **Tester:** Yan Bareisha

Date: 2024-08-27 06:44:55

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:

Containers [Give feedback](#)

Container CPU usage

0.61% / 800% (8 CPUs available)

Container memory usage

800.35MB / 15.06GB

Show charts

Only show running containers

<input type="checkbox"/>	Name	Image	Status	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	solr-container 2ce94498499d	solr:latest	Running	8983:8983	0.43%	46 minutes ago	<input type="checkbox"/> ⋮
<input type="checkbox"/>	apache-container 05b12f4a16f5	sebiboga/php-apache:latest	Running	8080:80	0%	46 minutes ago	<input type="checkbox"/> ⋮

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

Dashboard

Logging

Security

Core Admin

Java Properties

Instance

Start

39 minutes ago

Versions

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.

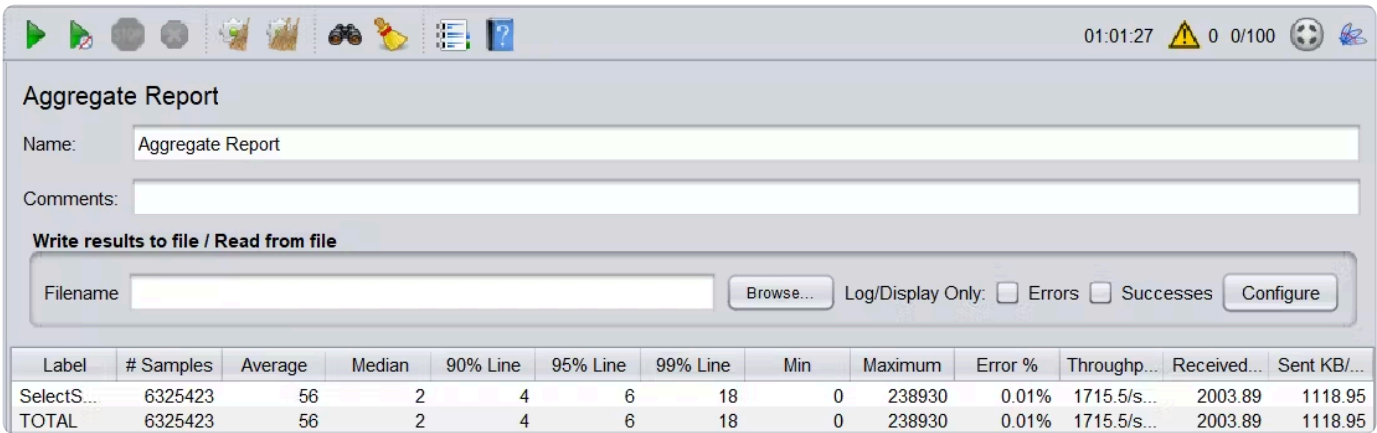
Test scope:

- Error rate <2%;
- CPU < 85%

- Memory <95%

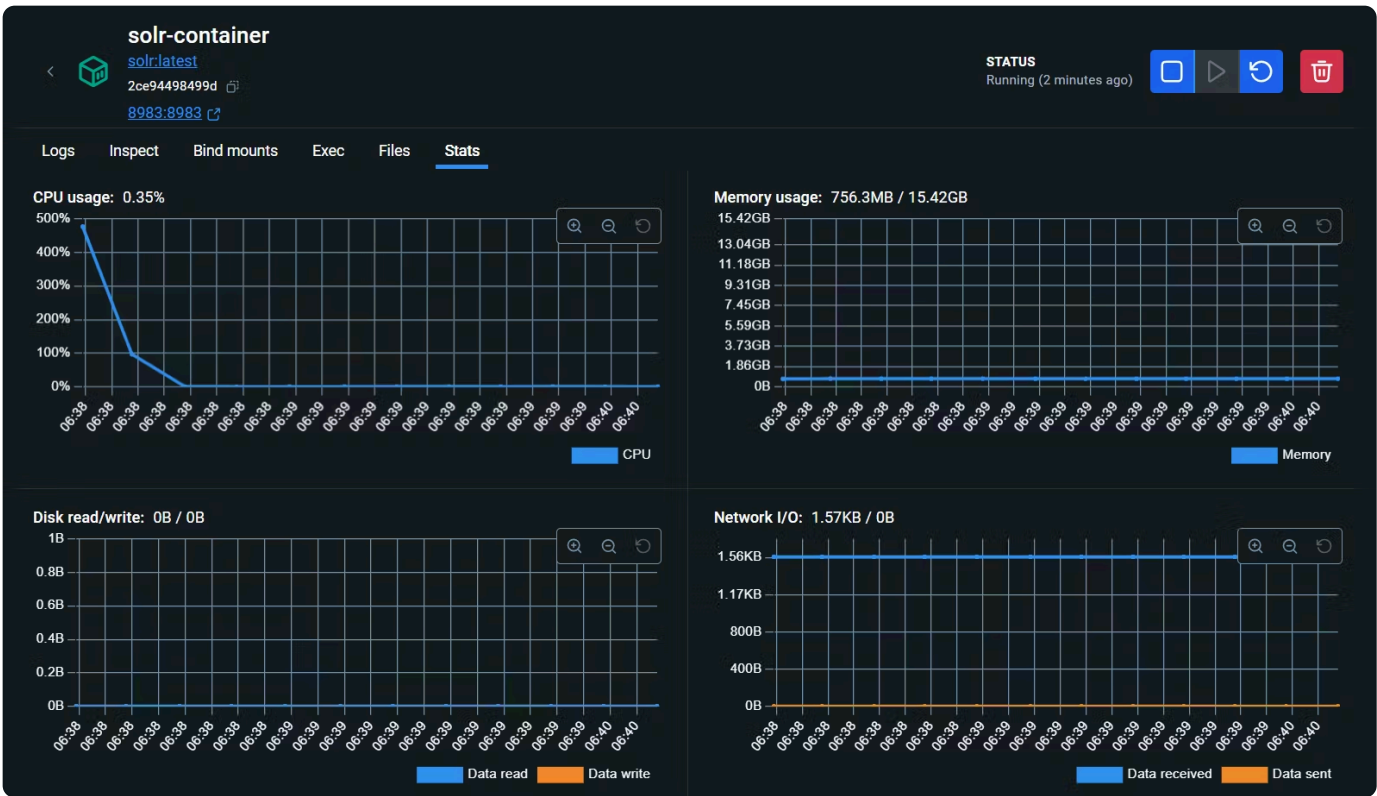
Test results:

JMeter Aggregated Report:

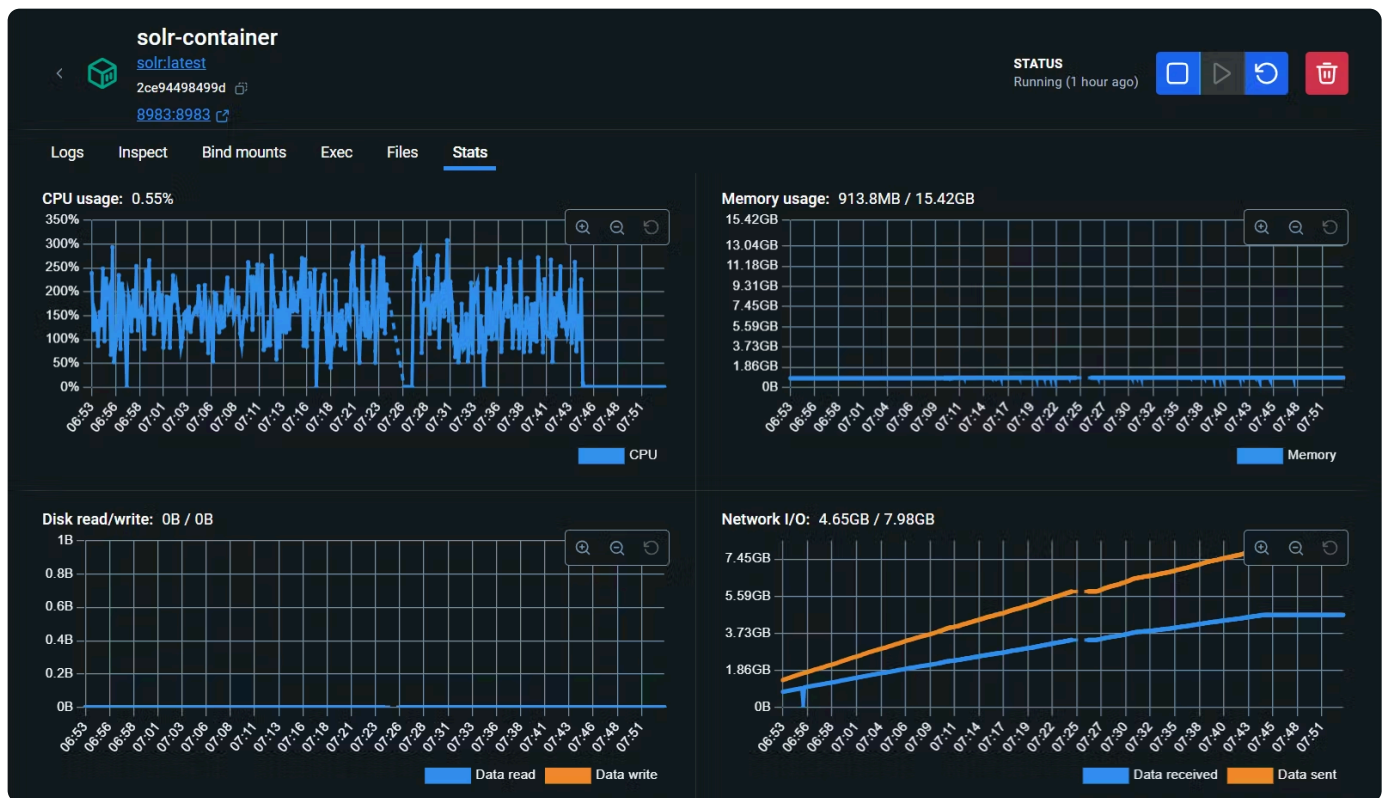


Docker

Before:

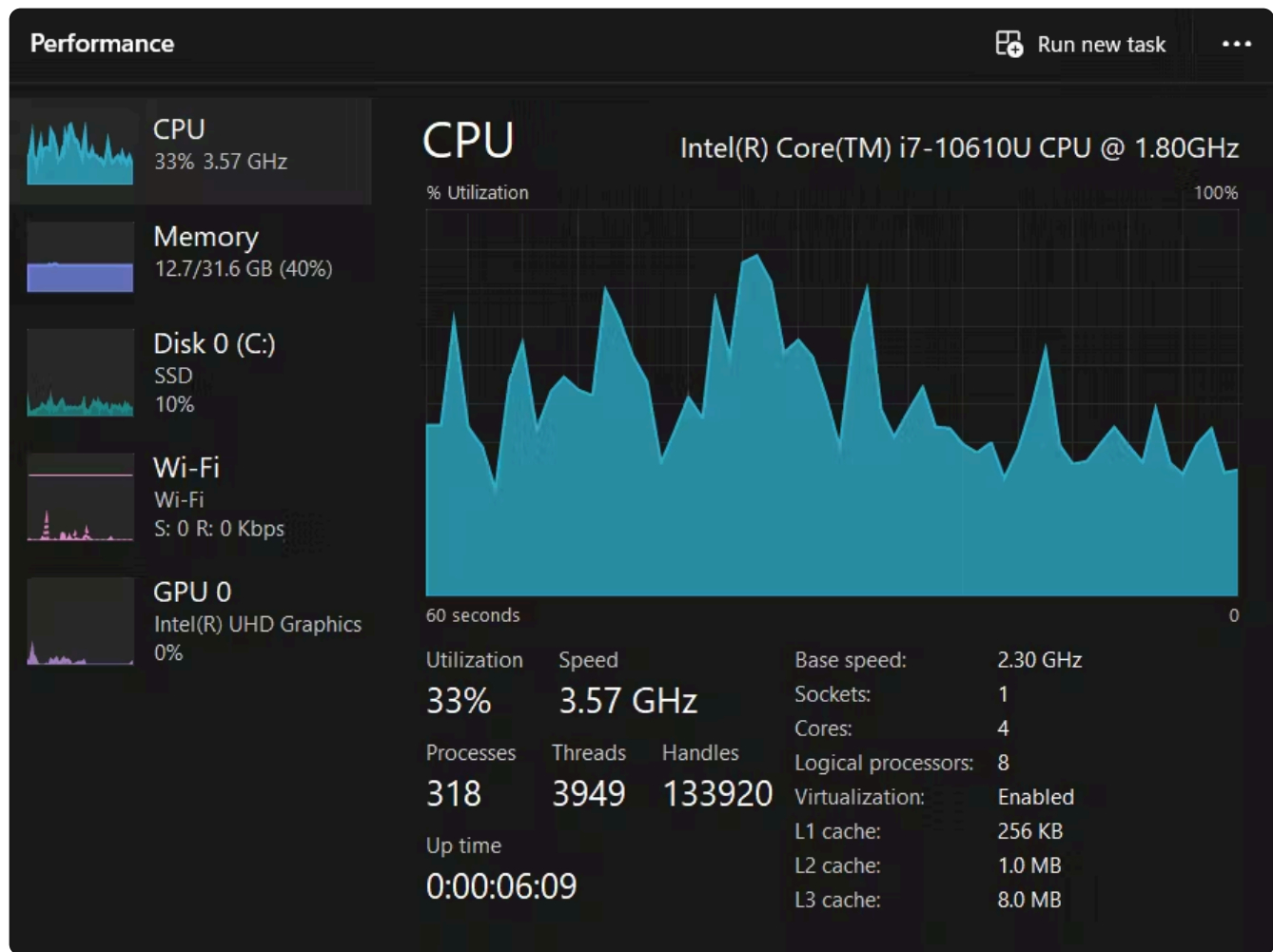


During/After:

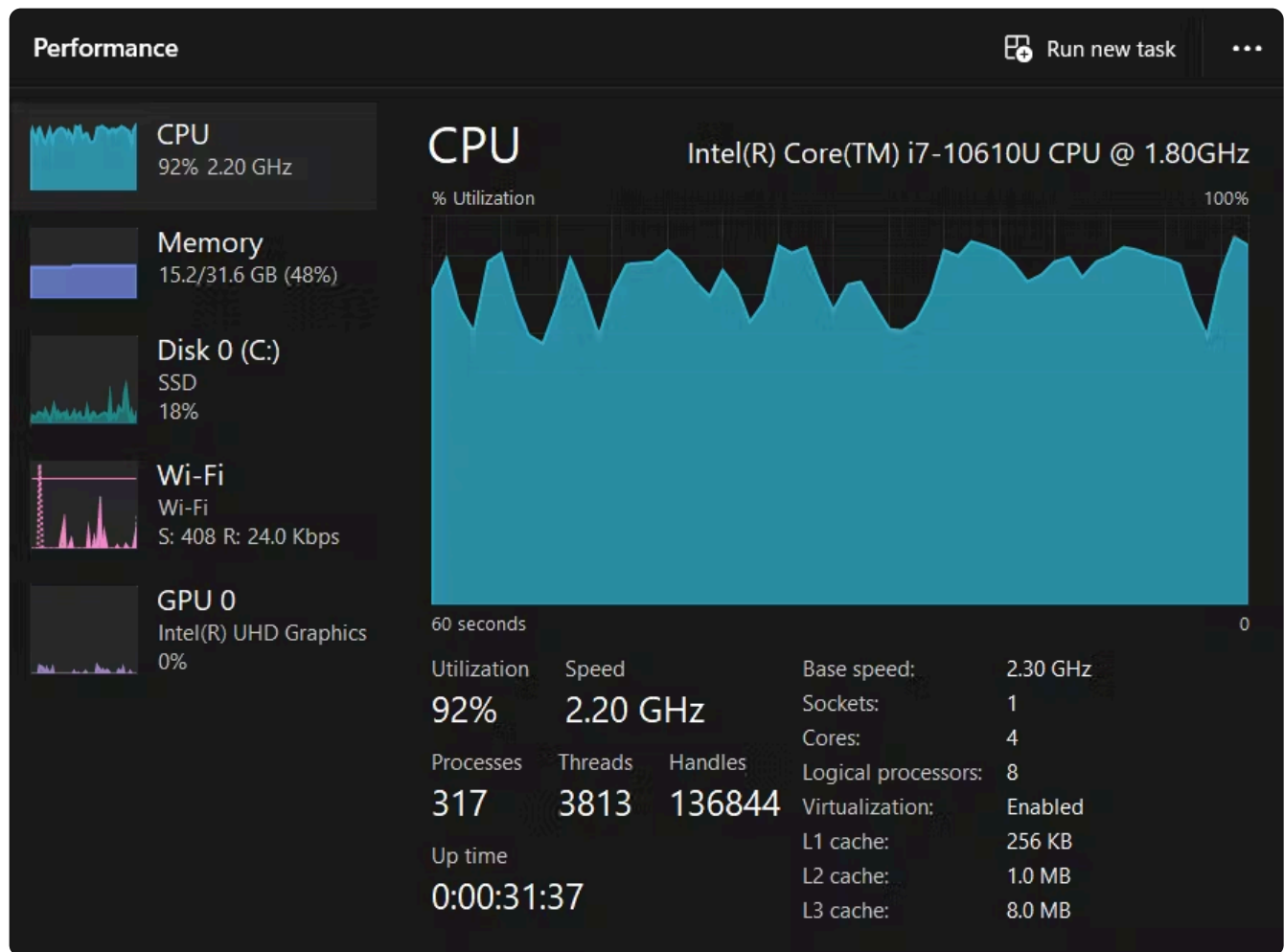


System Performance

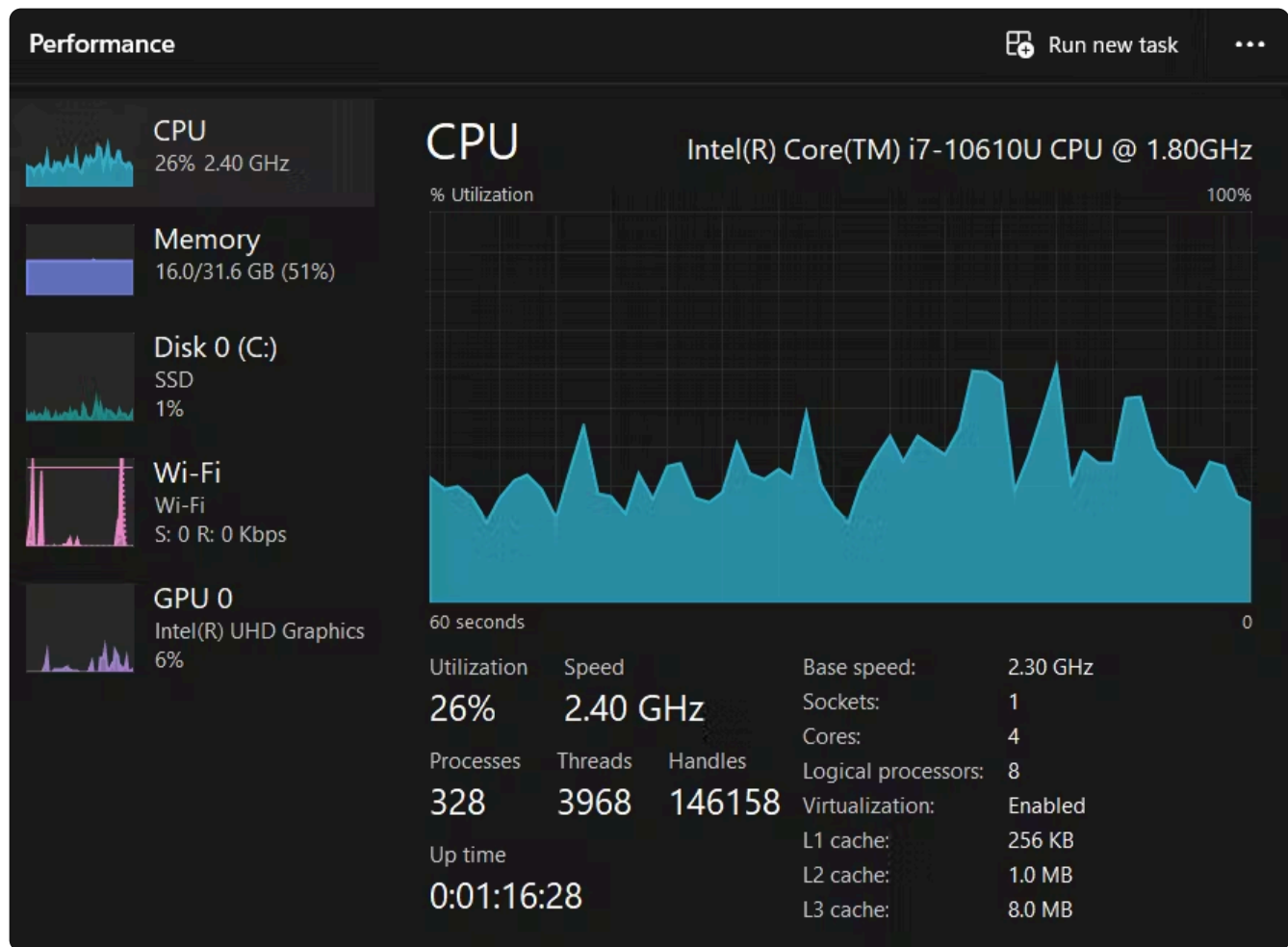
Before:



During:

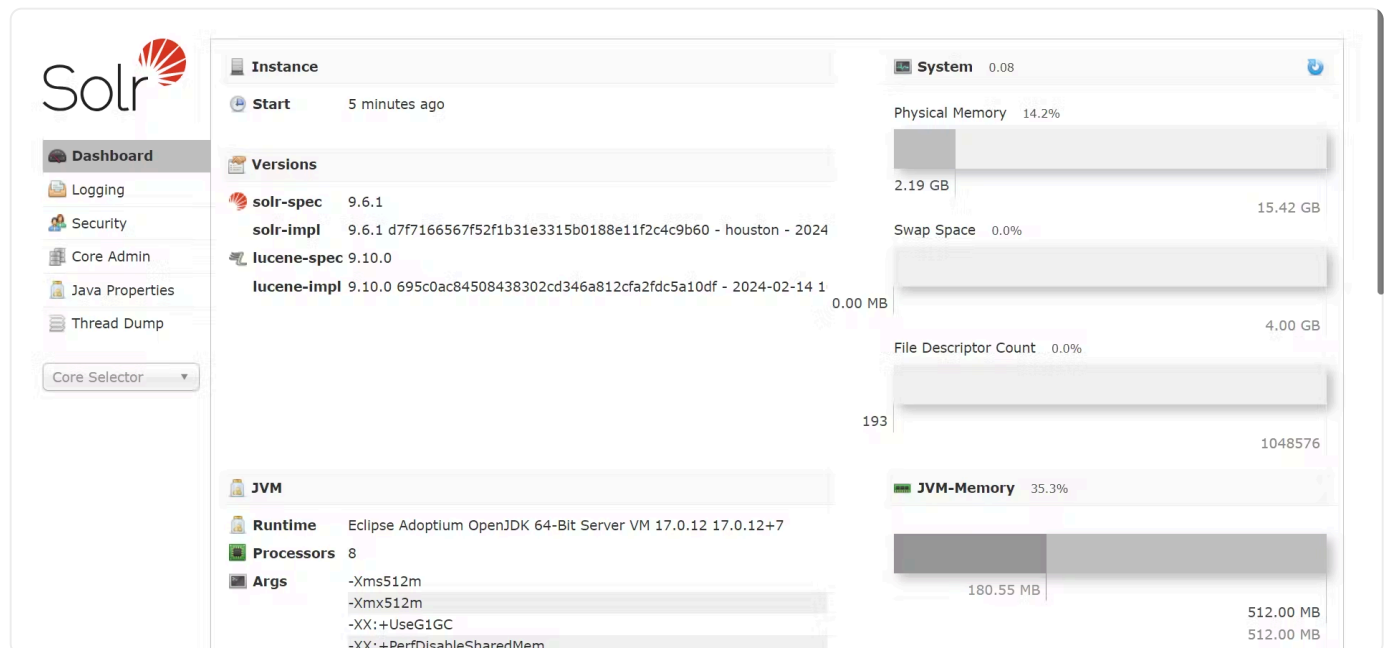


After:

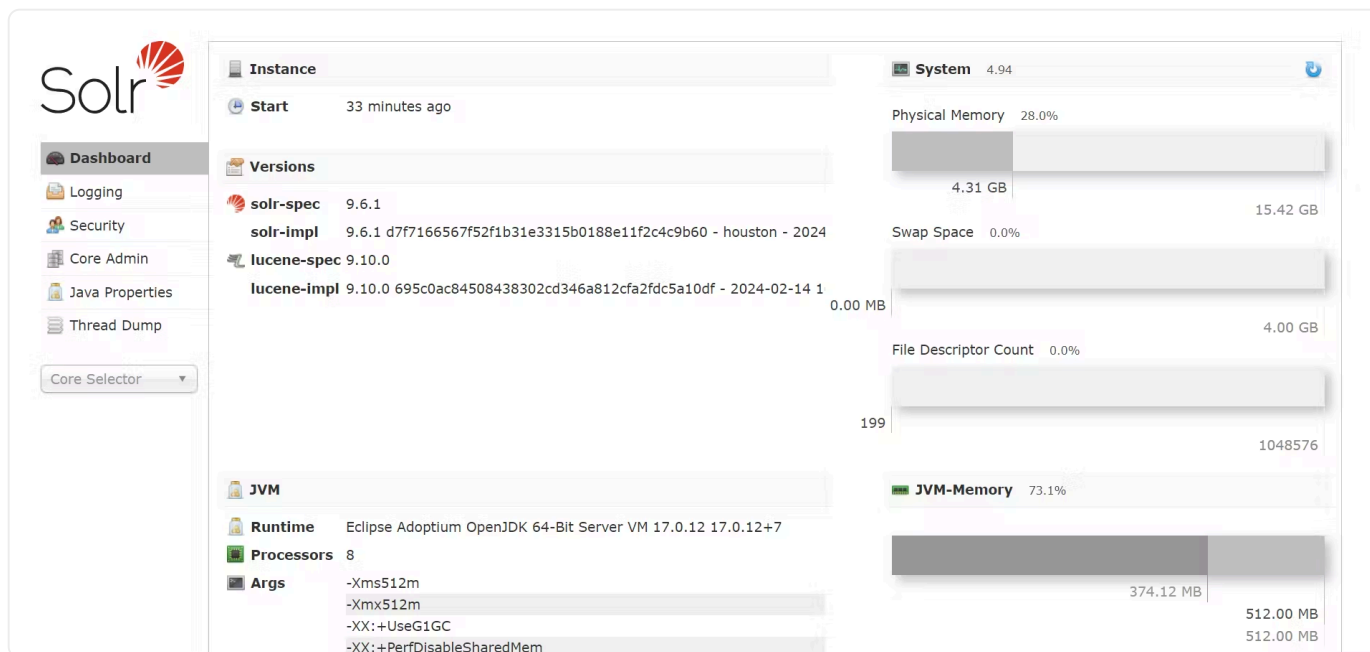


SOLR

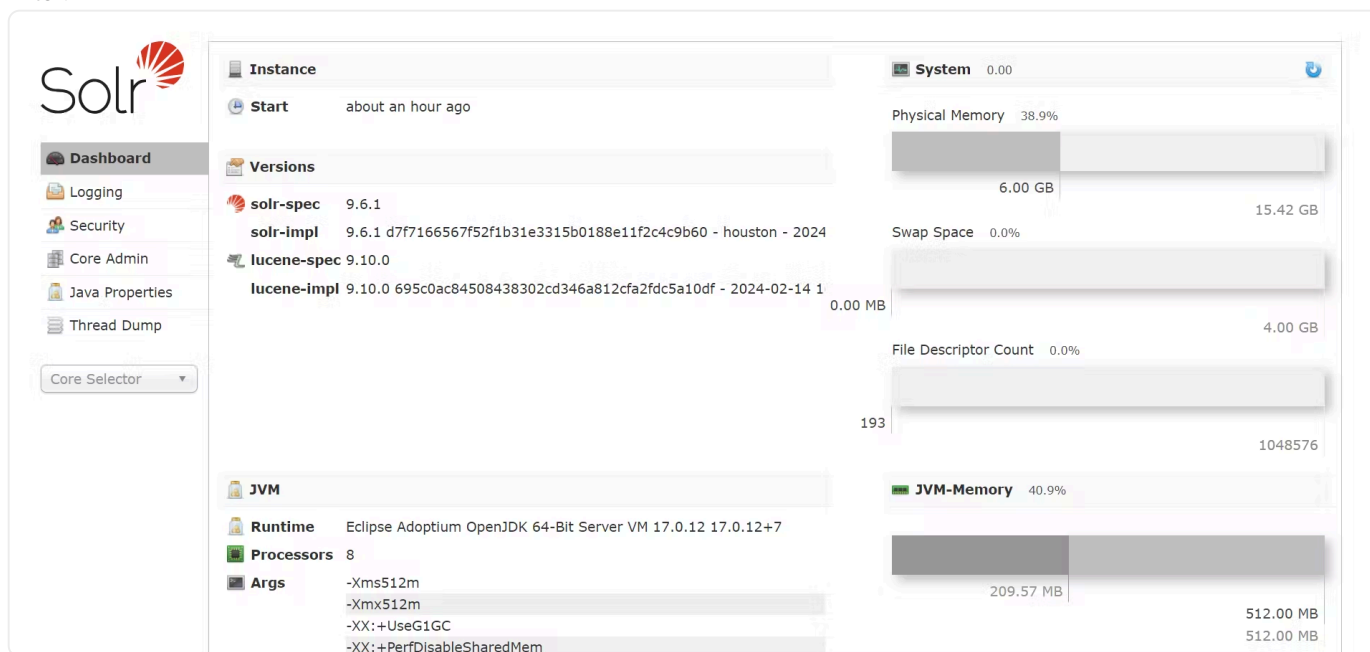
Before:



During:



After:



Conclusion:

- Error rate is 0.01%;
- CPU >90%
- Memory <70%

System is able to handle 1715.5 requests per second, delivering 6325423 responses with a response time between 2 ms .. 4 ms.