


Performance Testing Report - Benchmarking Test: 100Vusers


 **Tester:** Yan Bareisha

Date: 2024-08-26 11:48:53

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

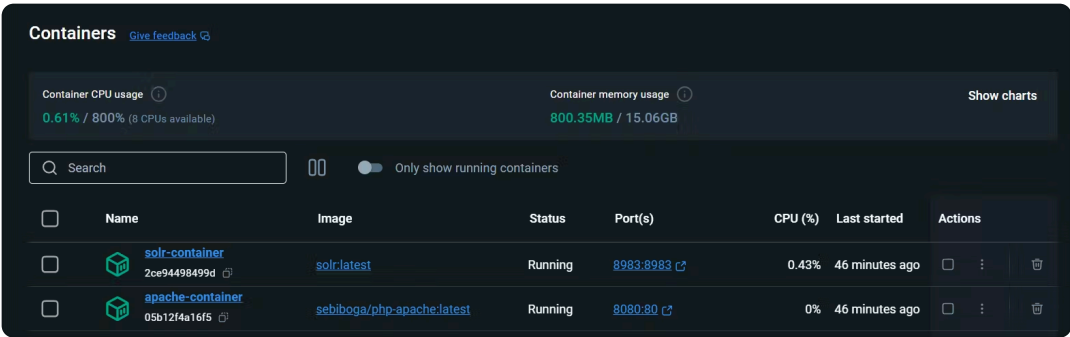
Edition	Windows 11 Enterprise
Version	23H2
Installed on	4/10/2024
OS build	22631.3880
Experience	Windows Feature Experience Pack 1000.22700.1020.0

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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



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: 15 min.

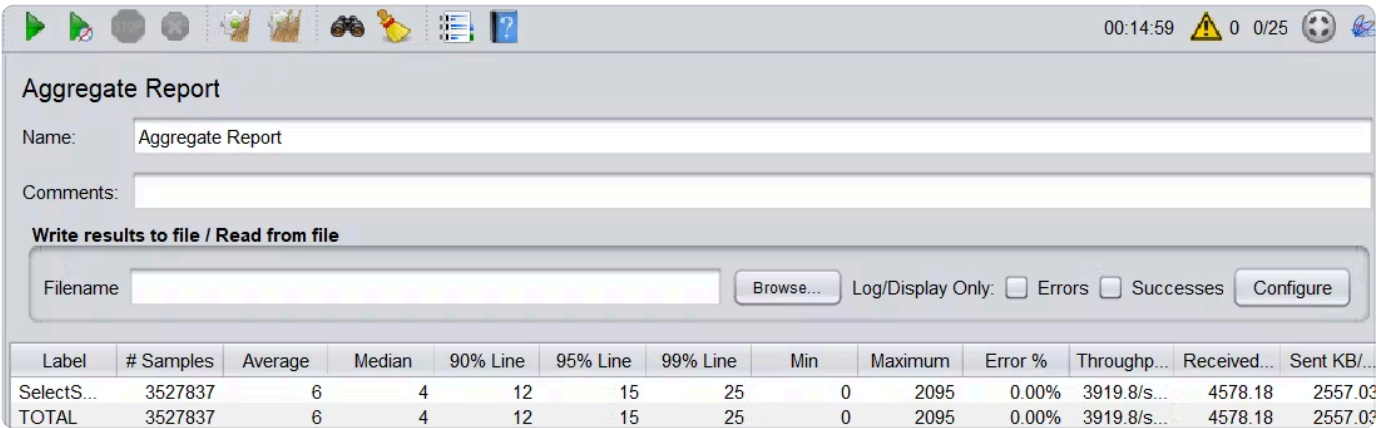
Test scope:

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

- Memory <95%

Test results:

JMeter Aggregated Report:

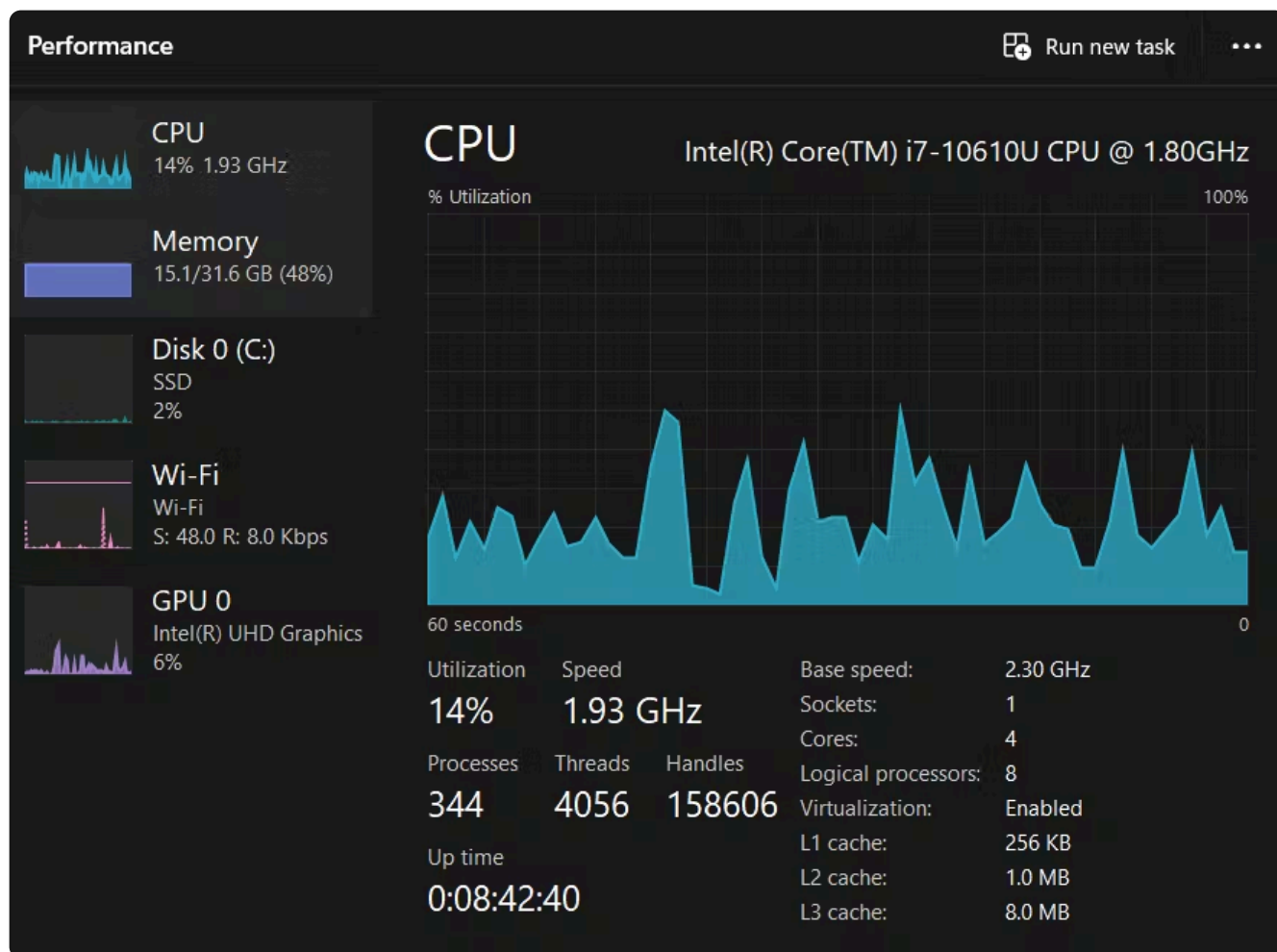


Docker

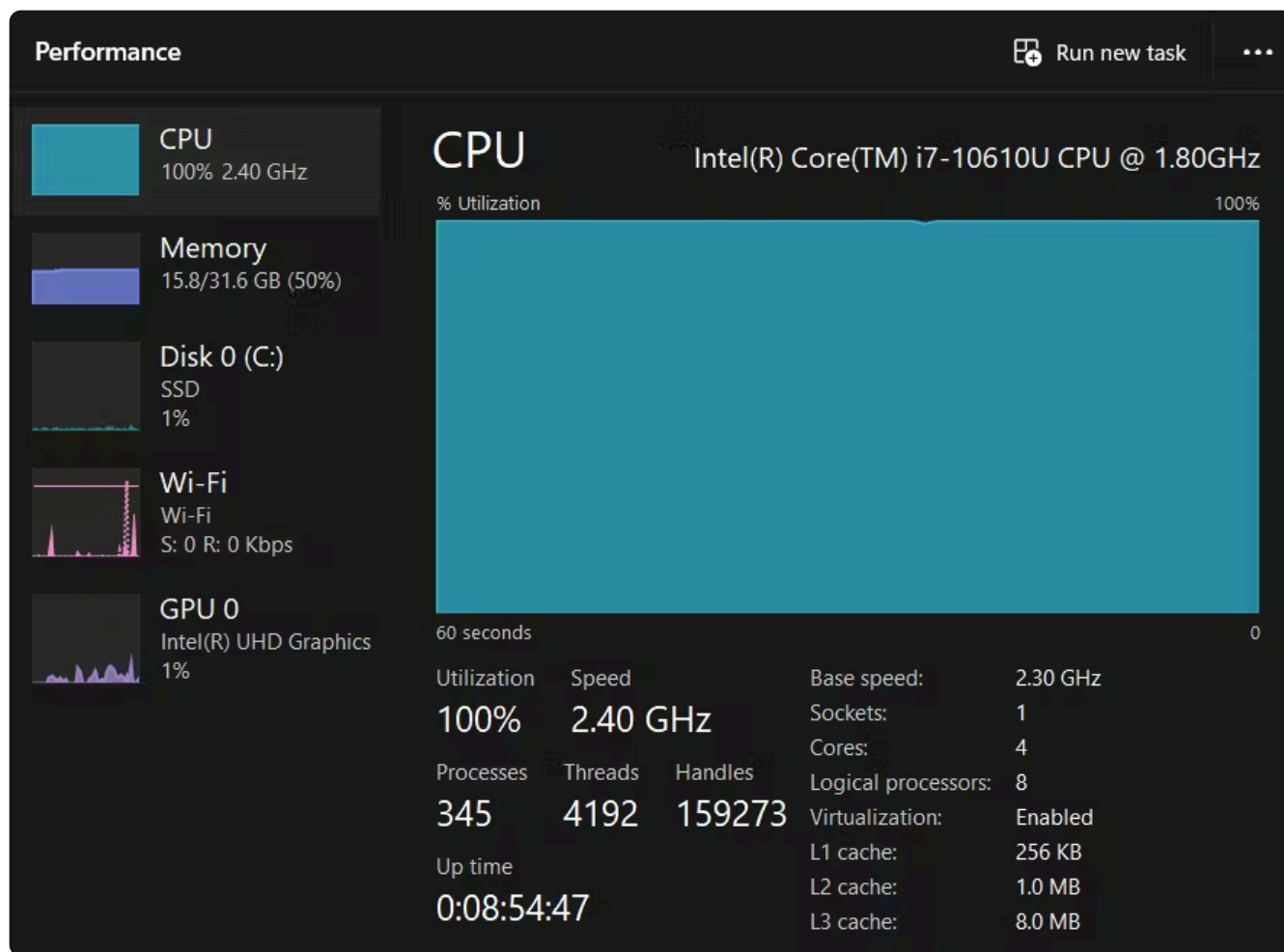


System Performance

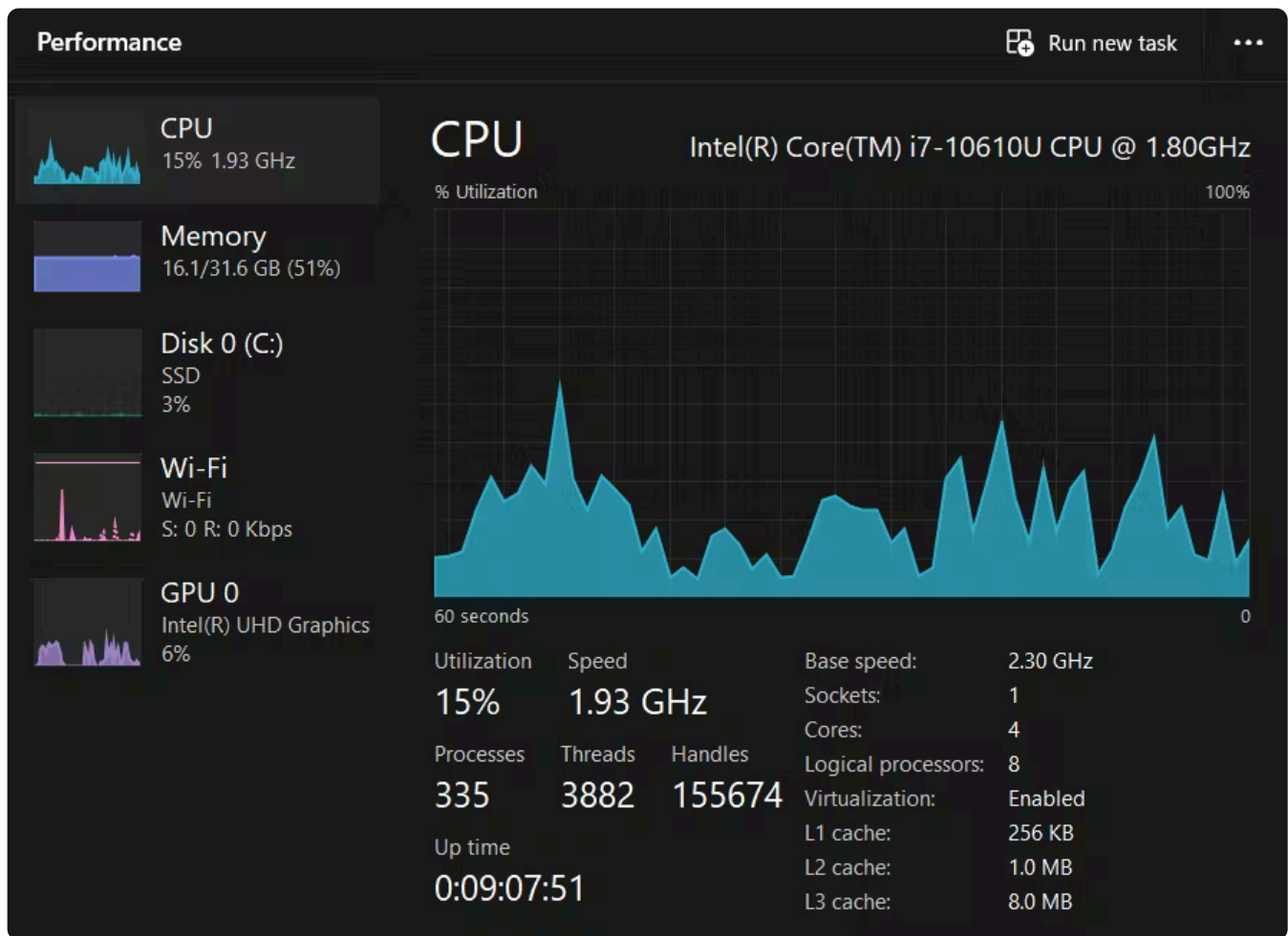
Before:



During:

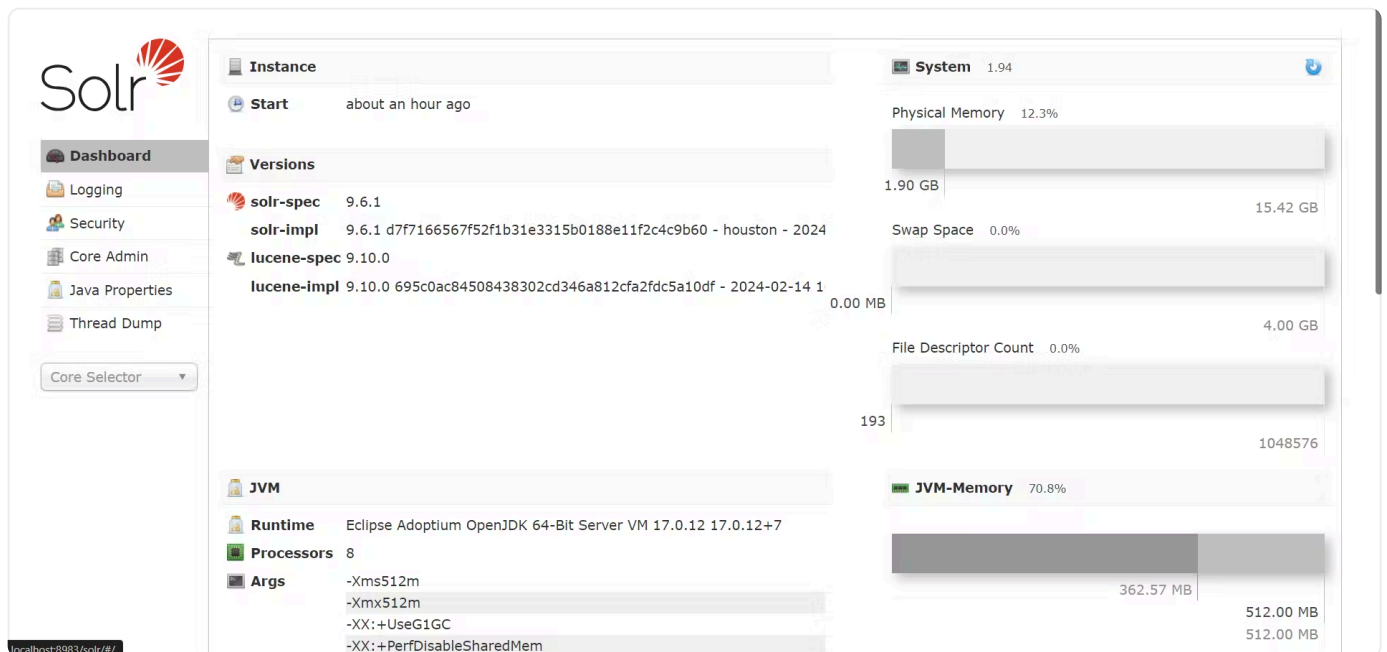


After:

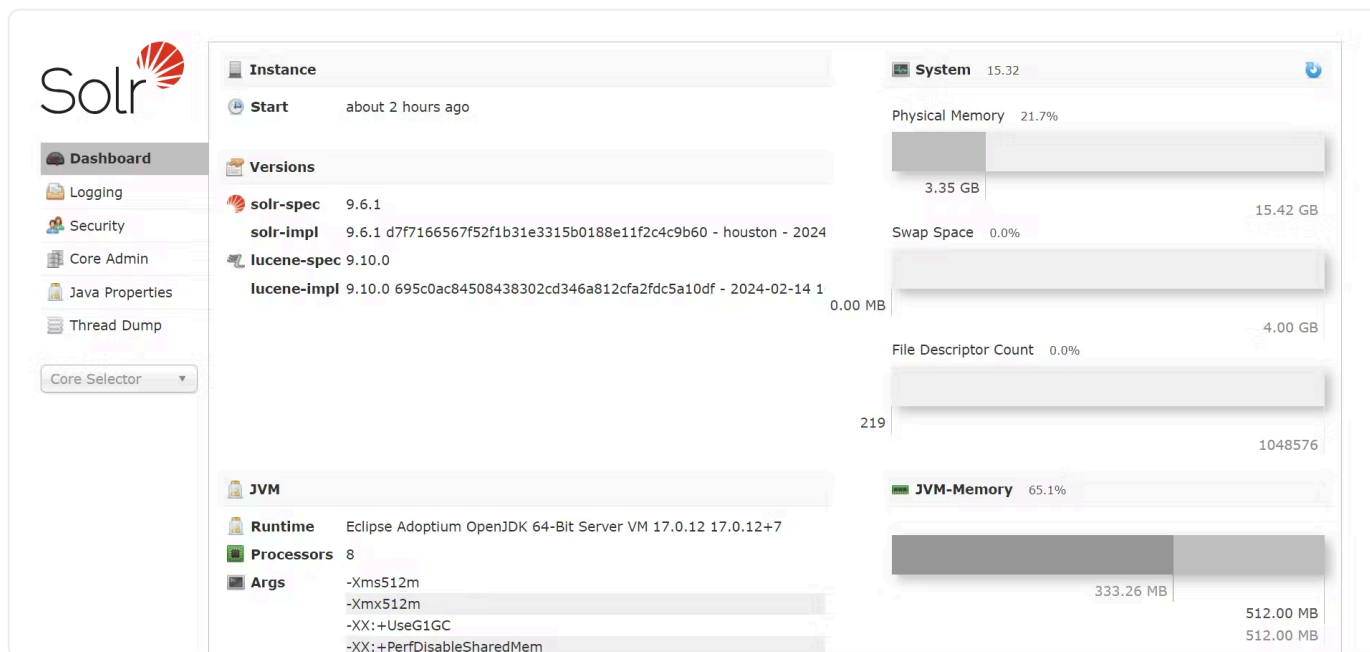


SOLR

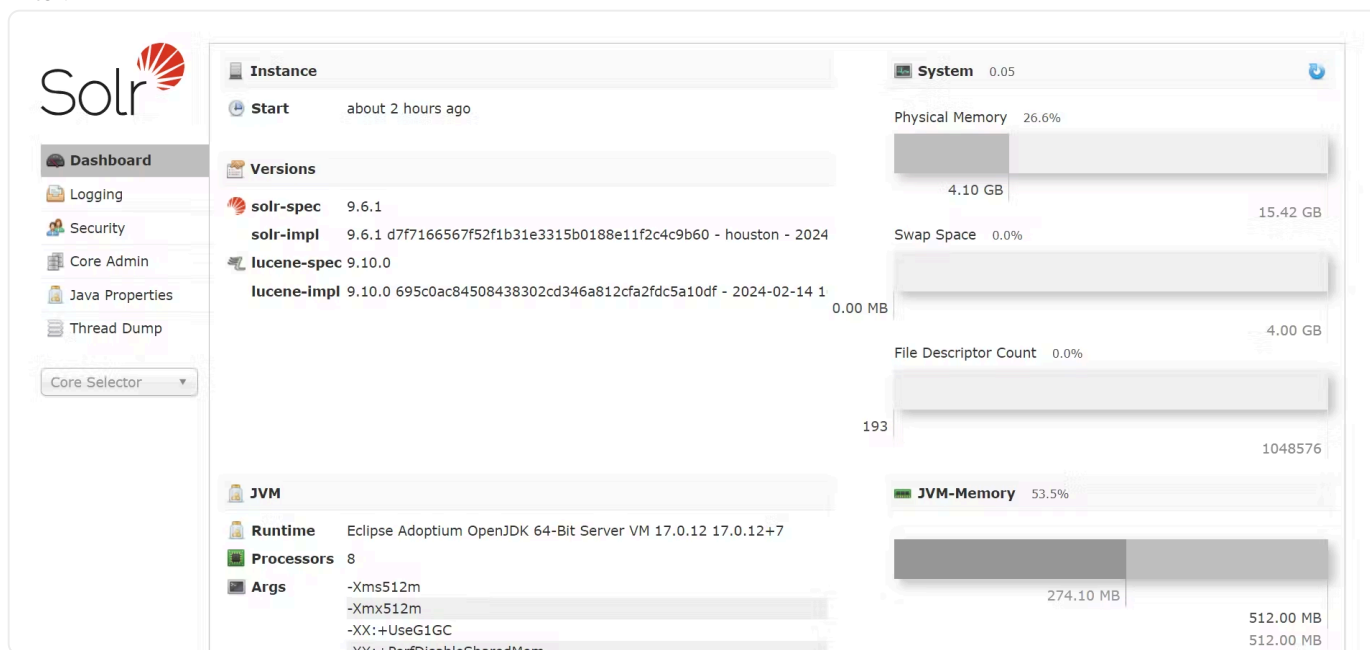
Before:



During:



After:



Conclusion:

- Error rate is 0%;
- CPU consumption is 100% during the test;
- Memory consumption <60%.

The benchmarking test showed that it is possible to run a 1-hour load test. CPU load should be taken into account.