

# Performance Testing Report - Benchmarking Test


 **Tester:** Yan Bareisha

**Date:** 24-08-23 07:25:20

## 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

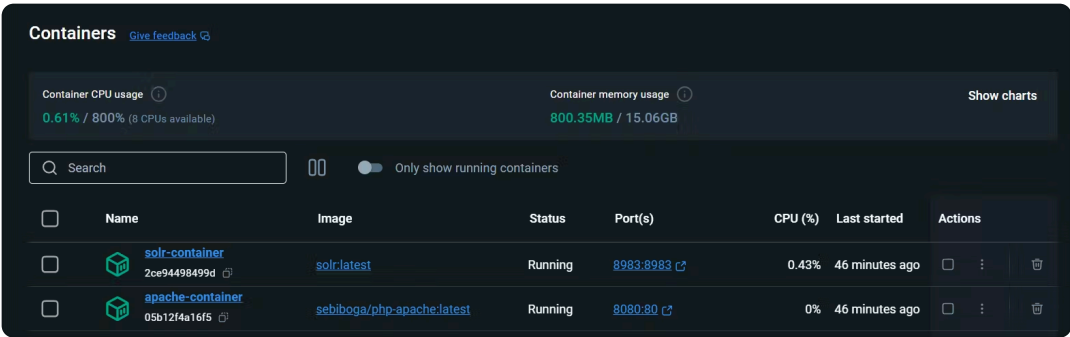
Edition	Windows 11 Enterprise
Version	23H2
Installed on	4/10/2024
OS build	22631.3880
Experience	Windows Feature Experience Pack 1000.22700.1020.0

[Microsoft Services Agreement](#)  
[Microsoft Software License Terms](#)

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: 25 VUsers;
- Ramp-Up: 60 sec;
- Duration: 15 min.

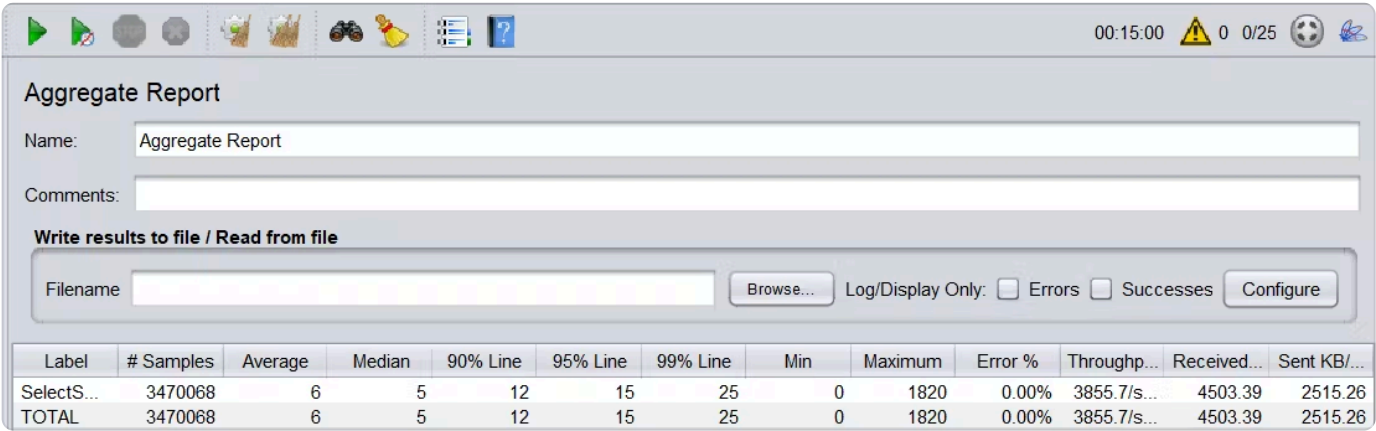
**Test scope:**

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

- Memory <95%

# Test results:

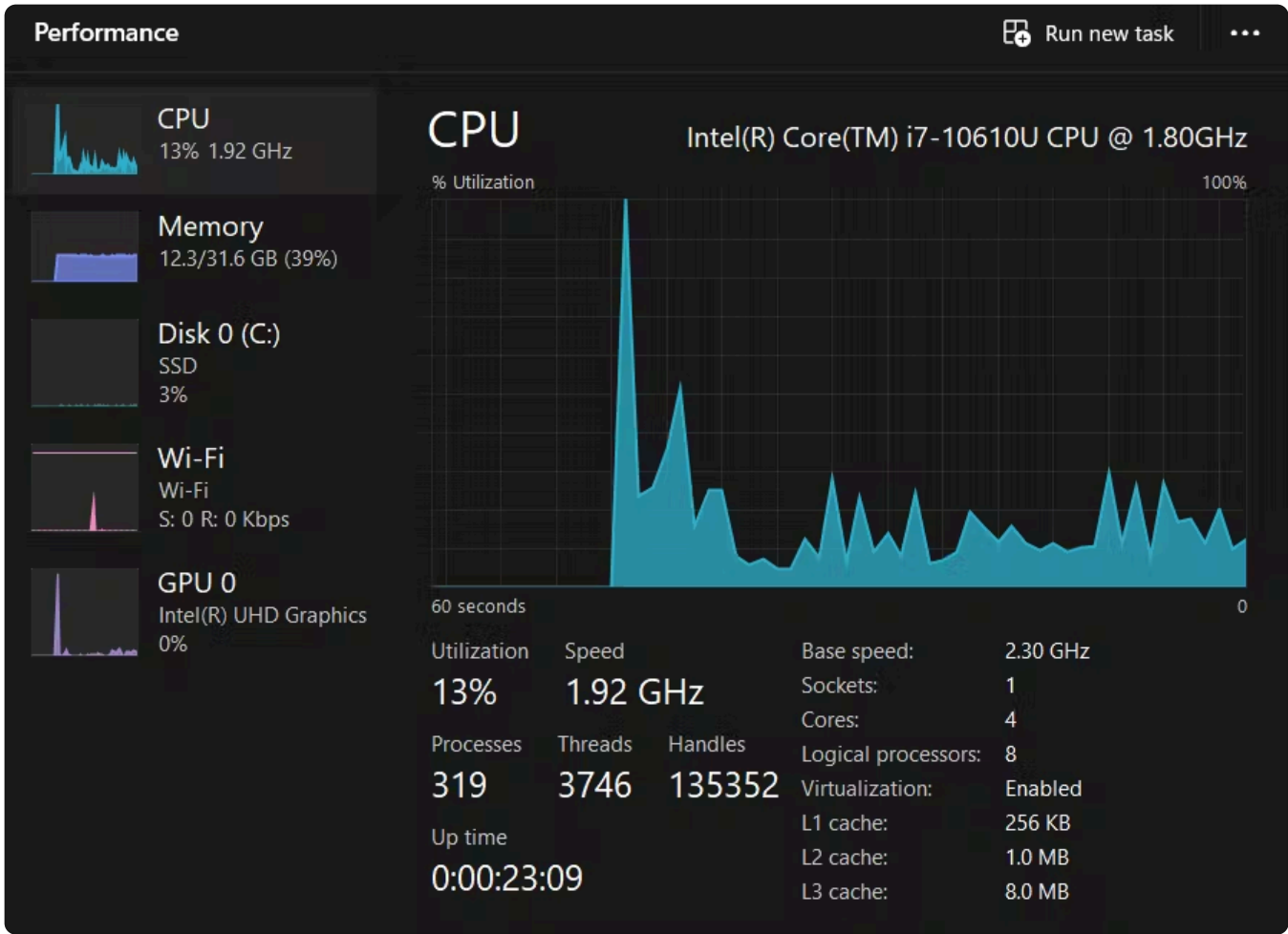
JMeter Aggregated Report:



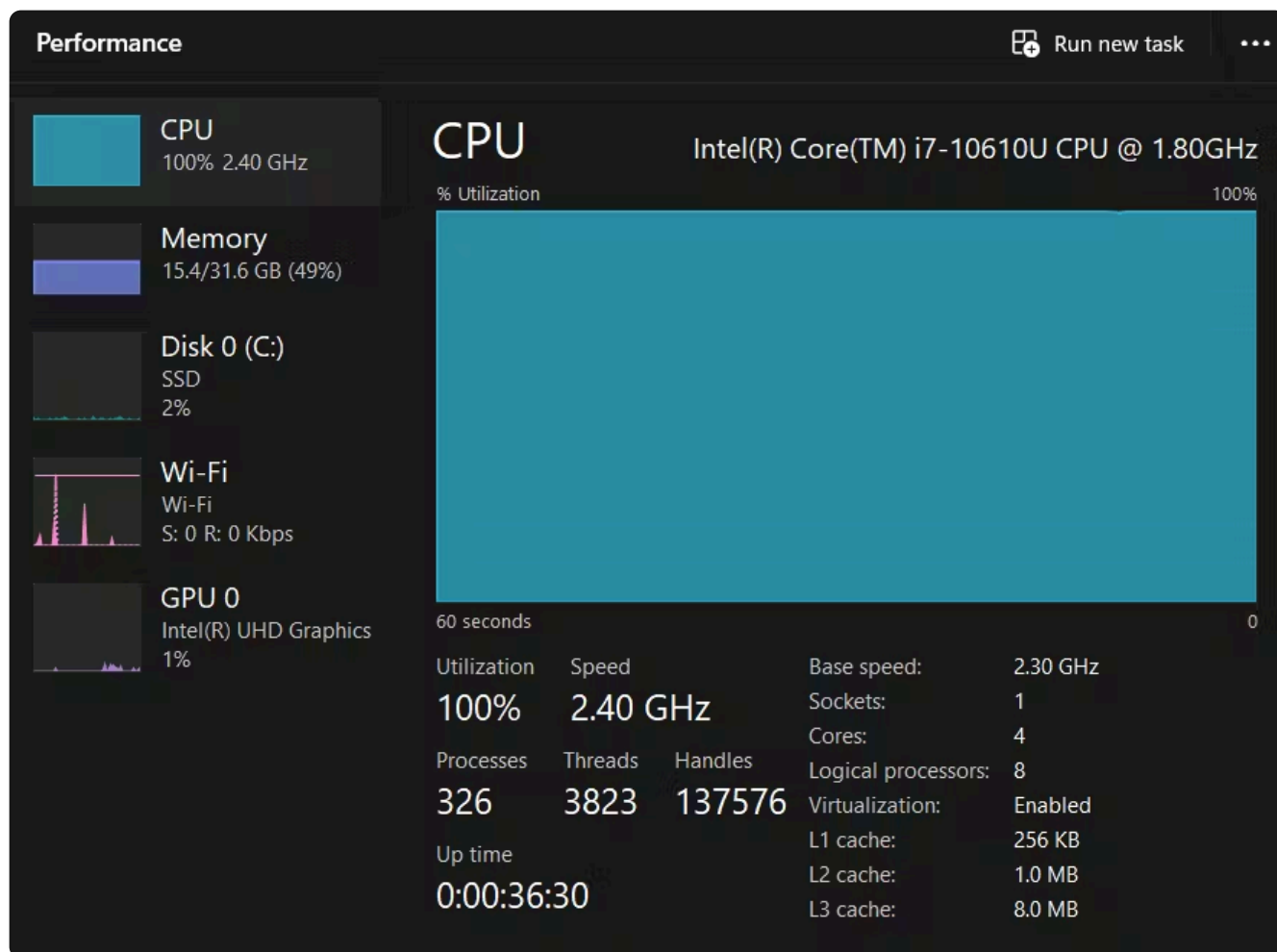
Docker

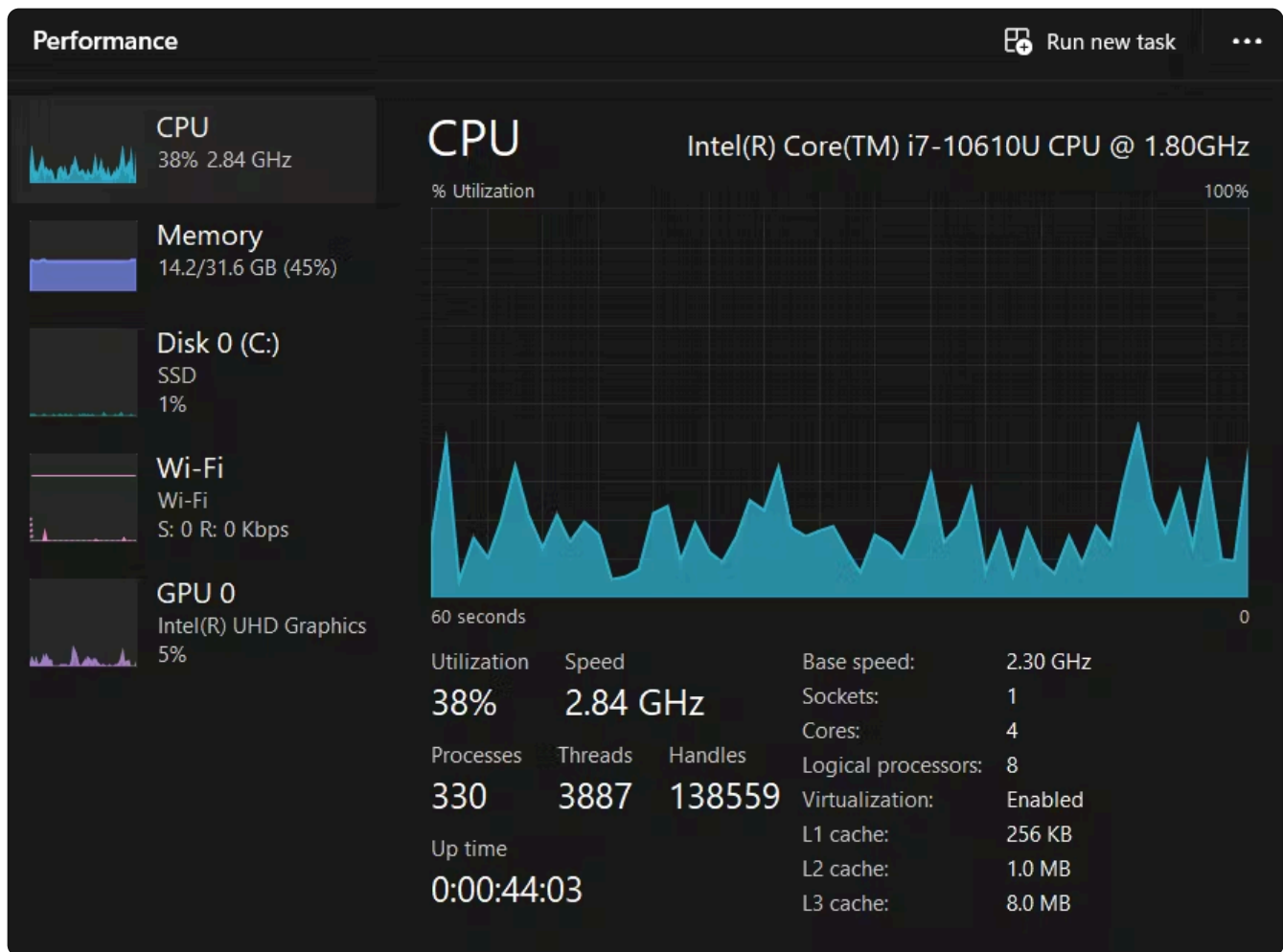


System Performance  
Before:

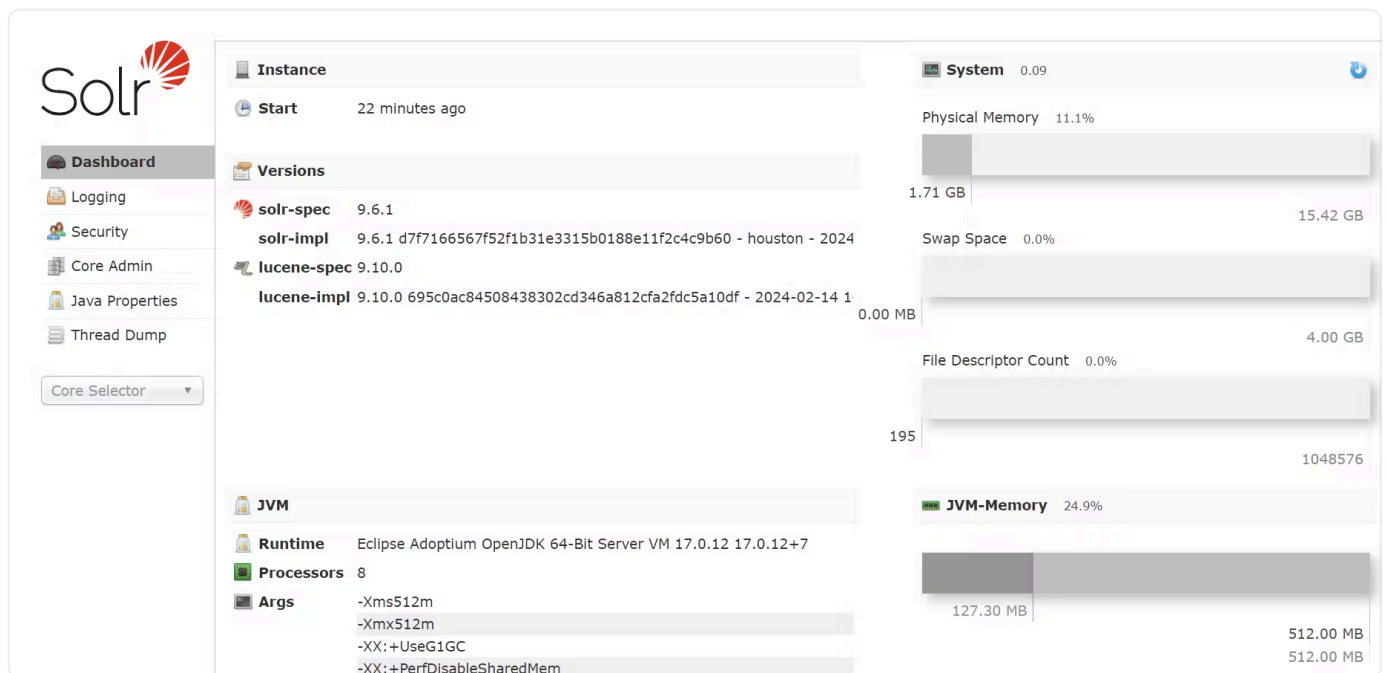


During:

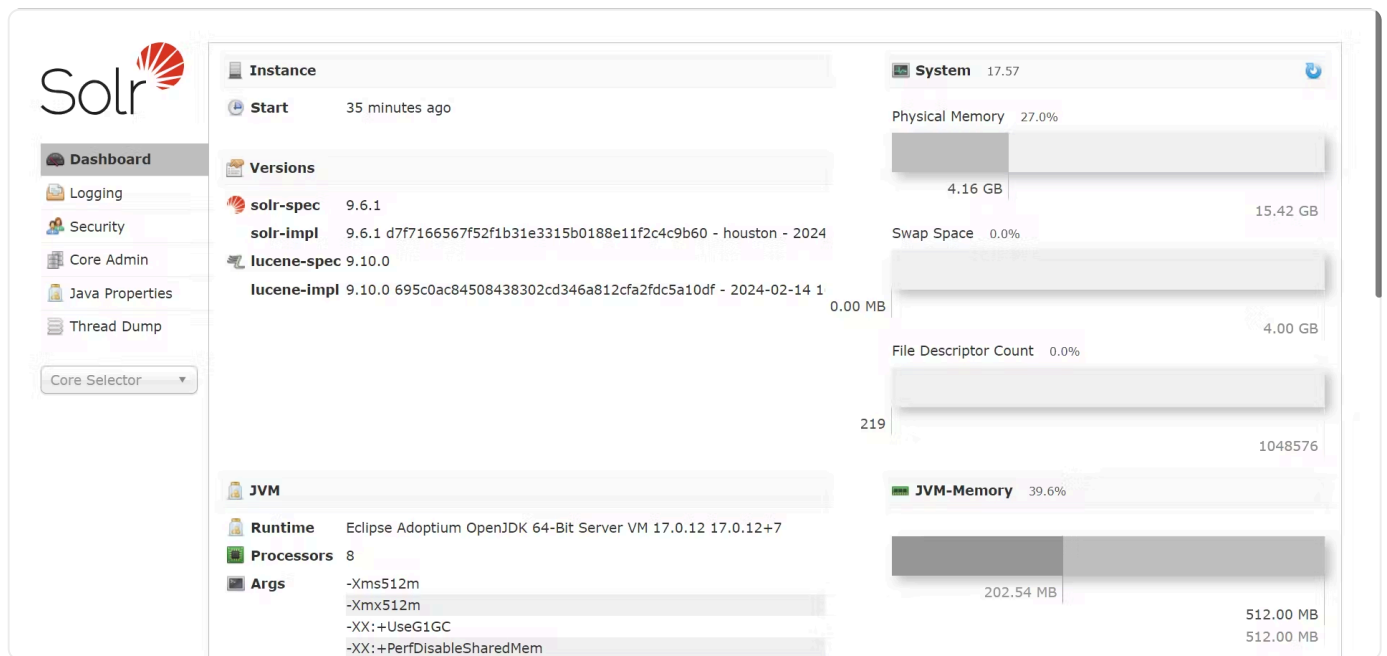




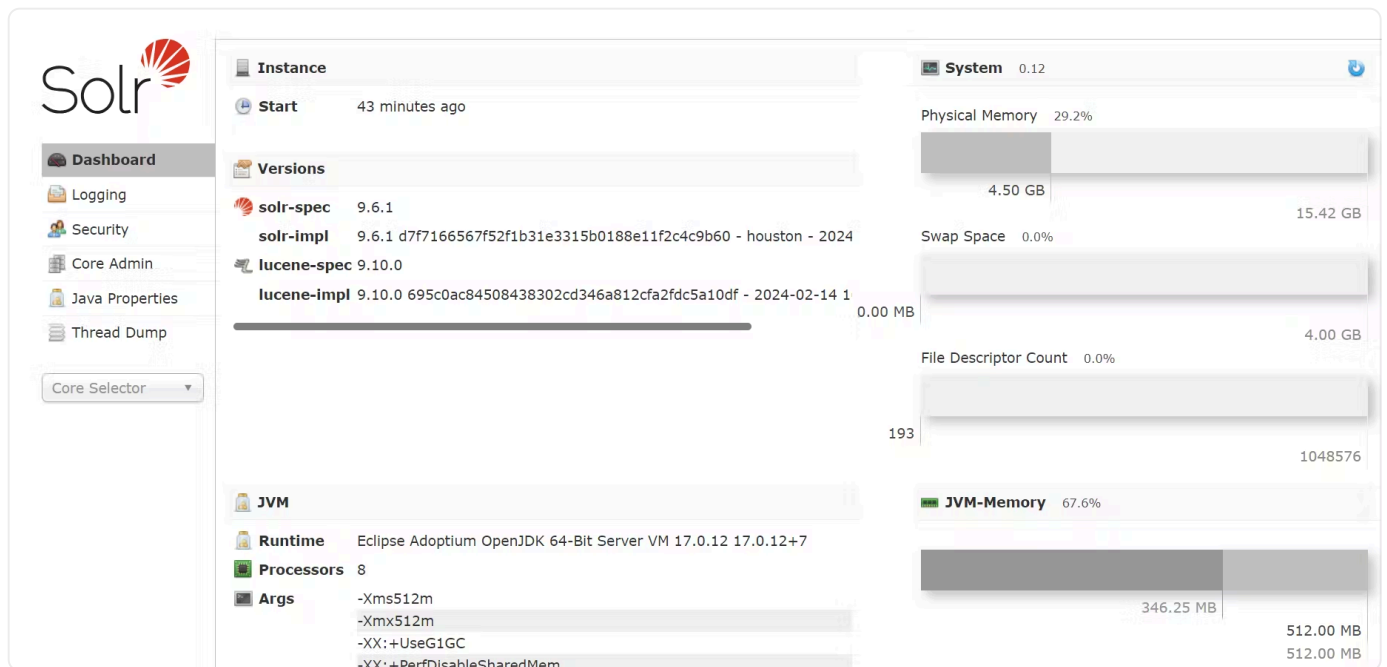
SOLR  
Before:



During:



After:



## Conclusion:

- Error rate is 0%;
- CPU consumption is 100% during the test;
- Memory consumption <95%.

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