Performance Testing Report - Benchmarking Test: 100Vusers

🥶 **Tester:** Yan Bareisha

Date: 2024-09-10 22:08:21 - 2024-09-10 22:24:34

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

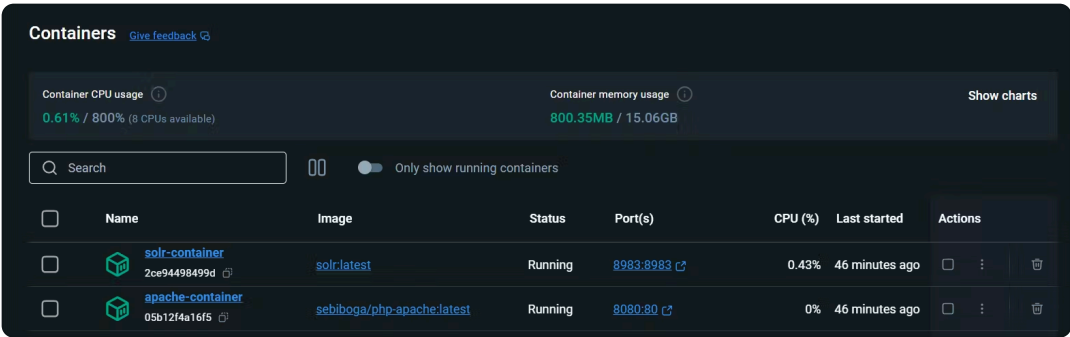Microsoft Services Agreement
Microsoft Software License Terms

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

Test scenario:

- Select 1 job out of 250.000.000 from apache SOLR

Performance test scenario:

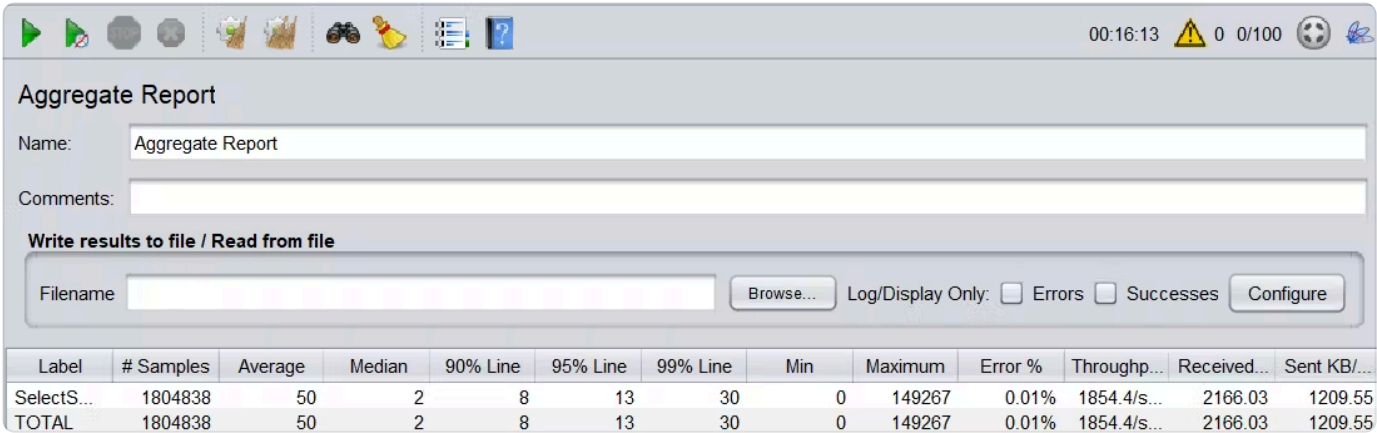- Workload: 100 VUsers;

- Ramp-Up: 60 sec;

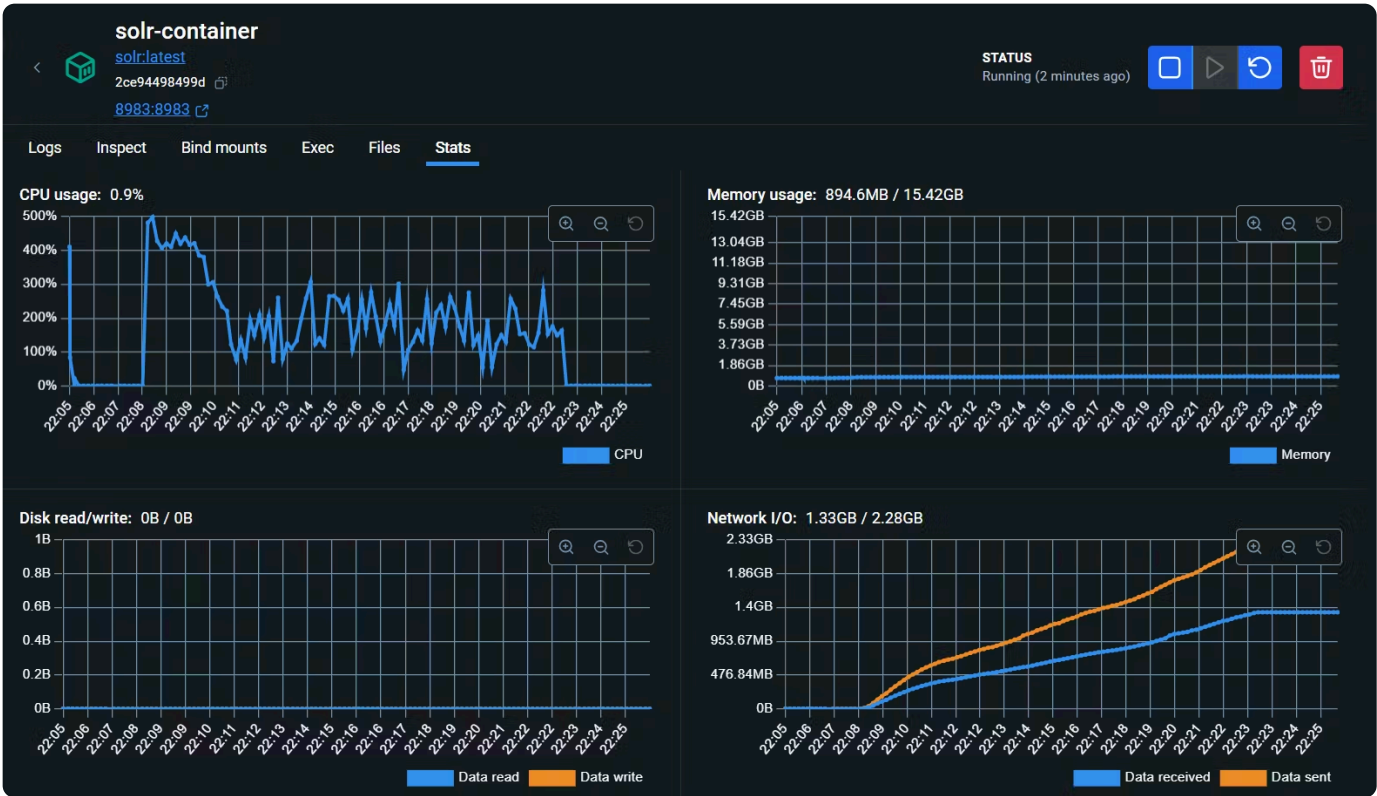- Duration: 15 min.

Test scope:

- Error rate <0%;

- CPU < 85%

- Memory <95%

Test results:

JMeter Aggregated Report:

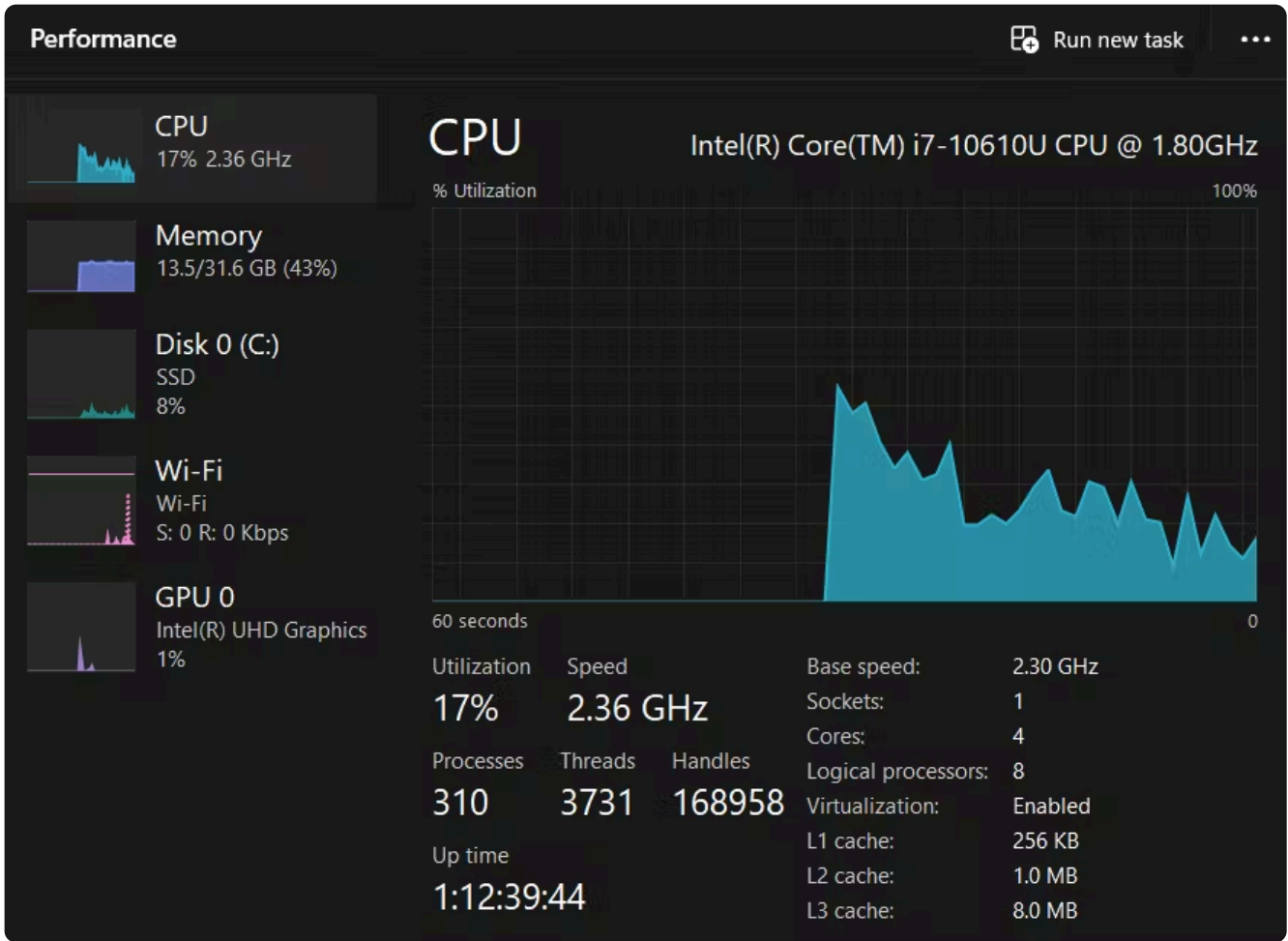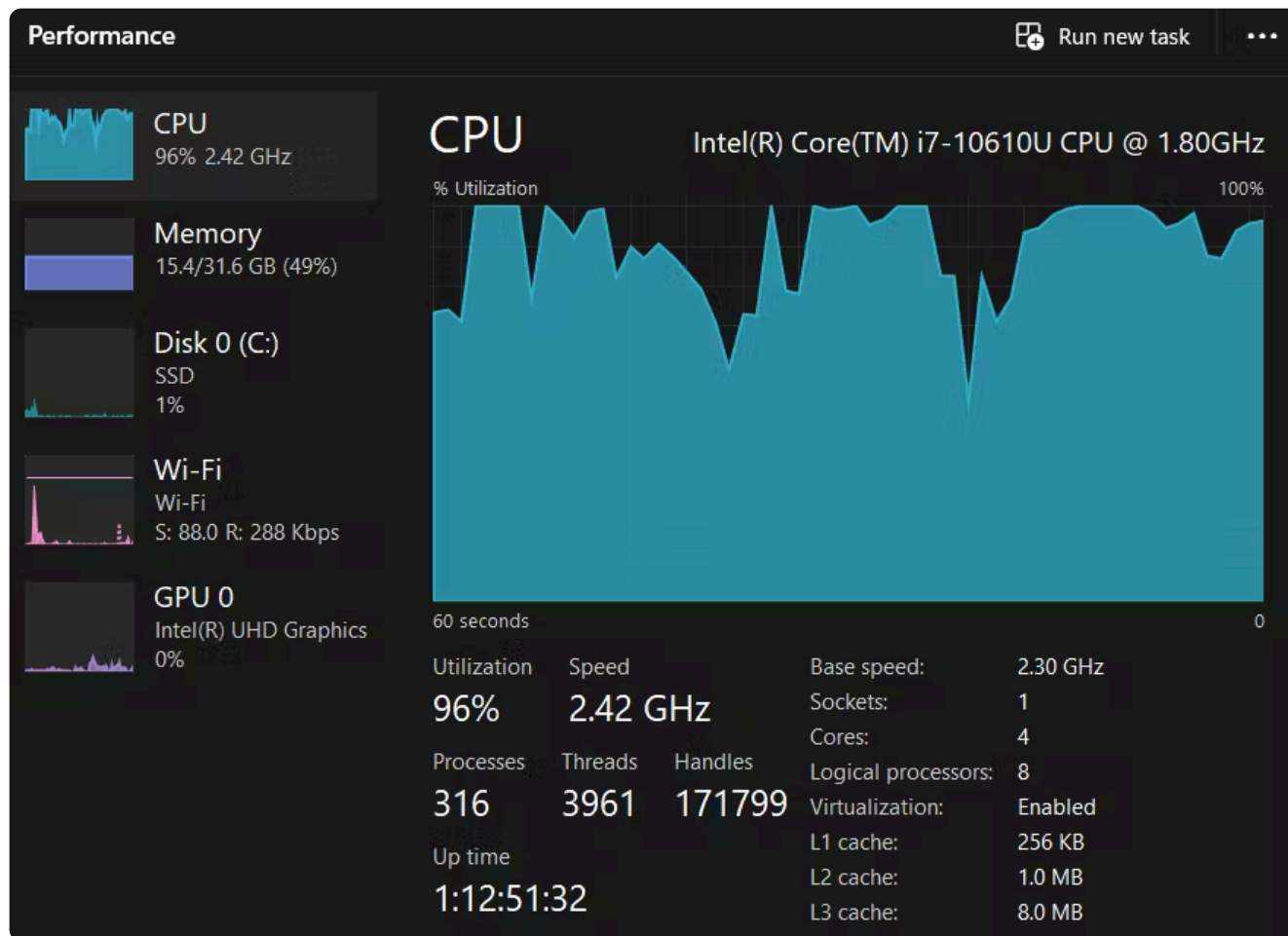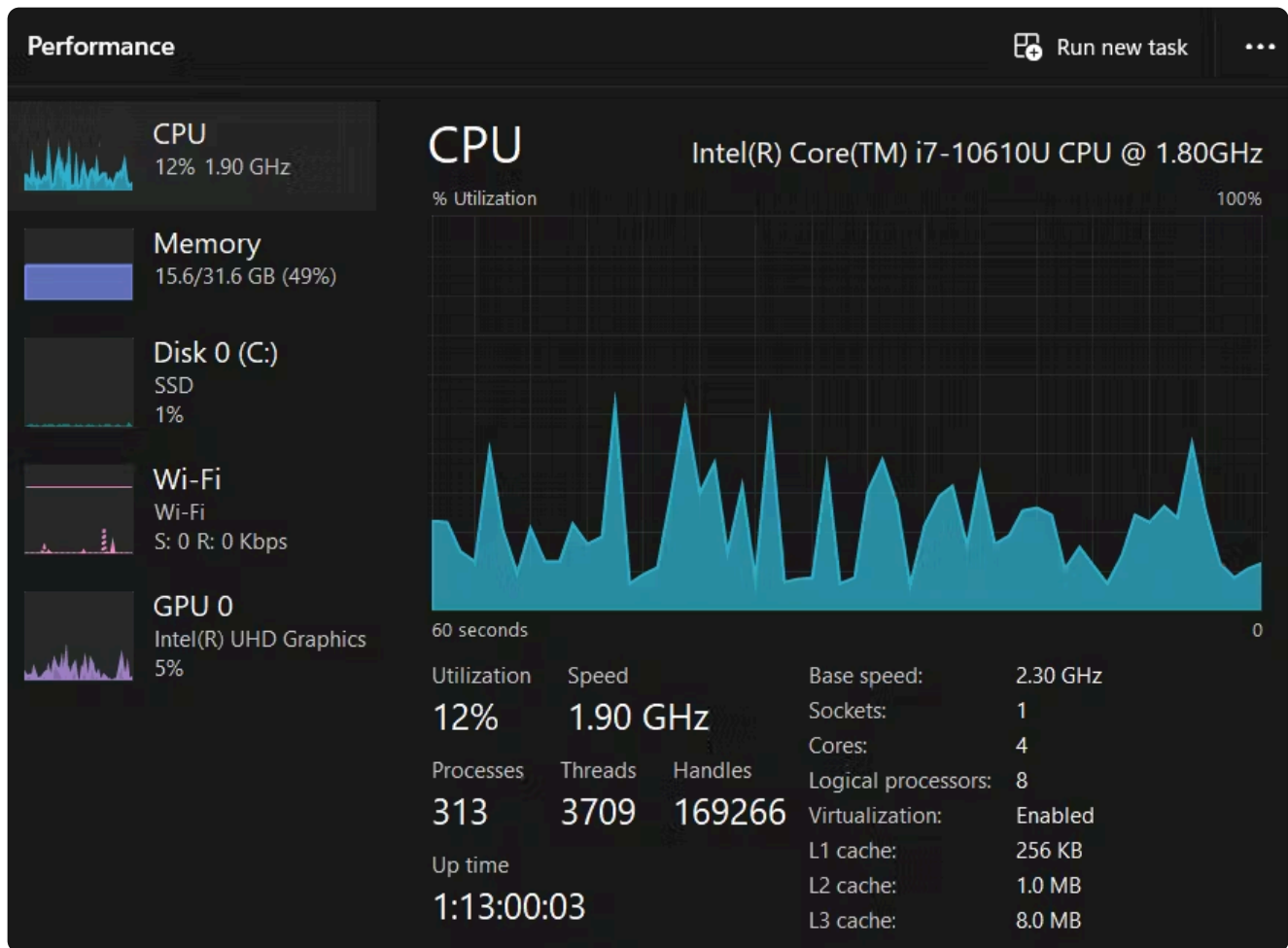| Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughp...	Received...	Sent KB/...
SelectS...	1804838	50	2	8	13	30	0	149267	0.01%	1854.4/s...	2166.03	1209.55
TOTAL	1804838	50	2	8	13	30	0	149267	0.01%	1854.4/s...	2166.03	1209.55

Docker
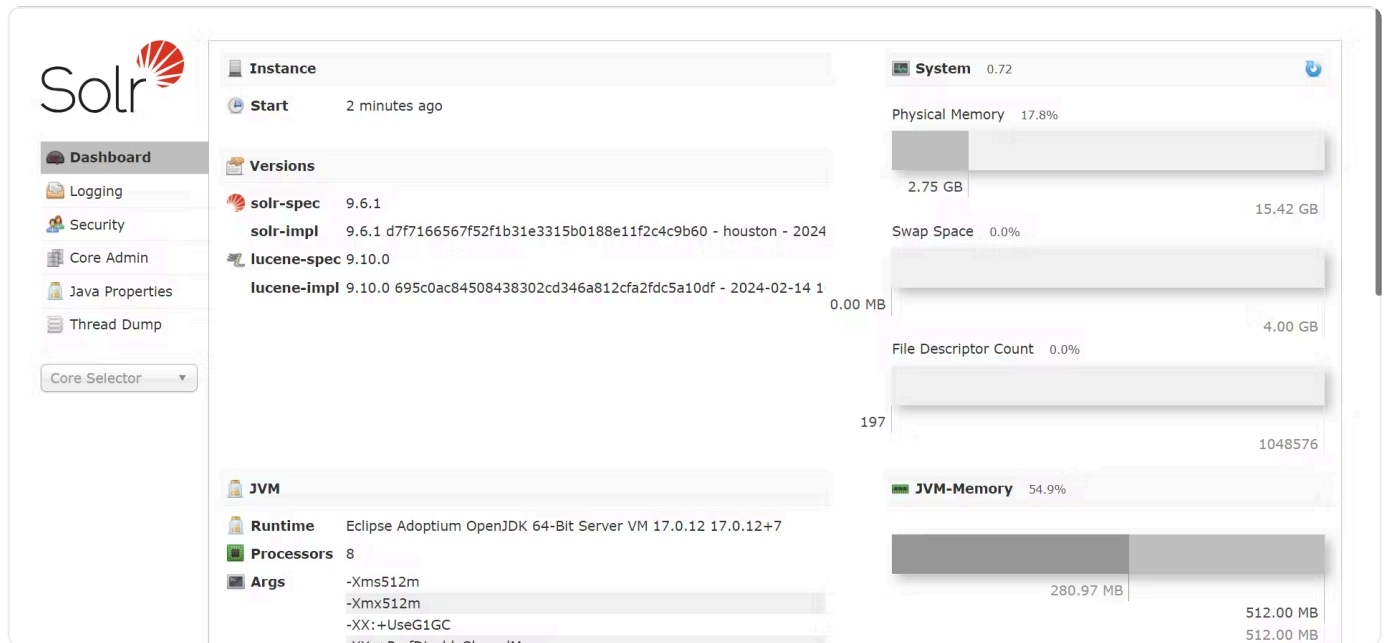

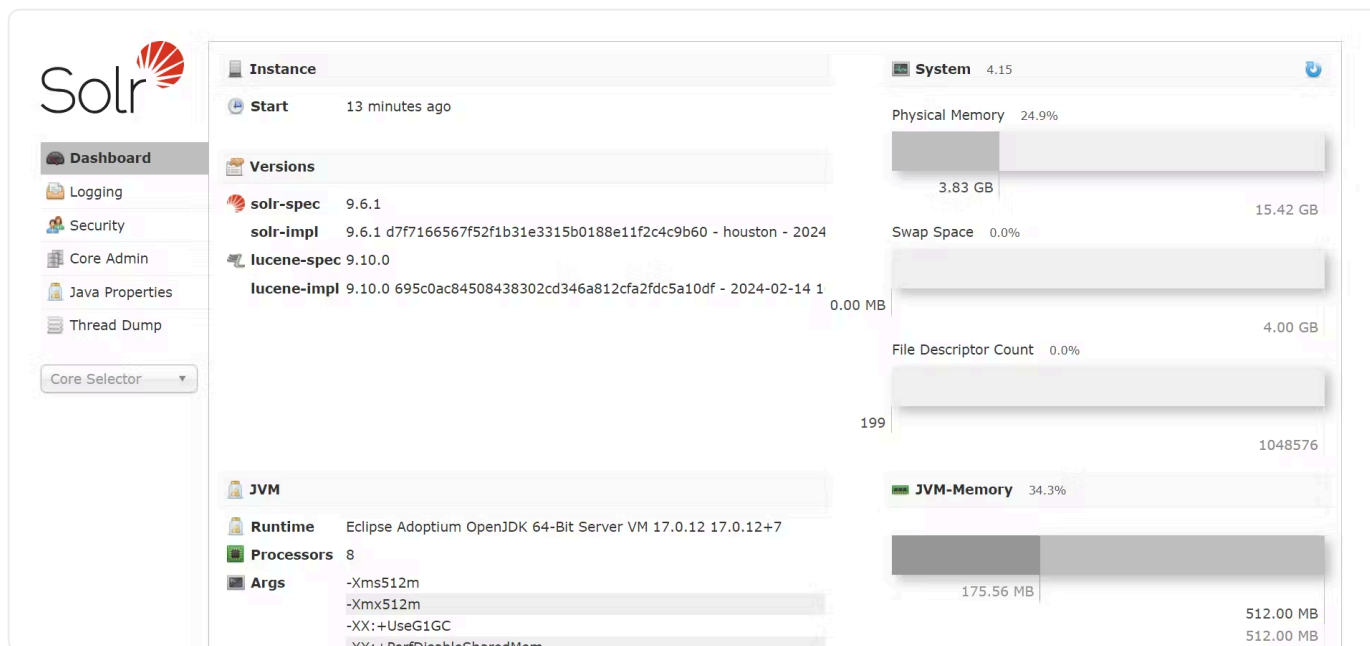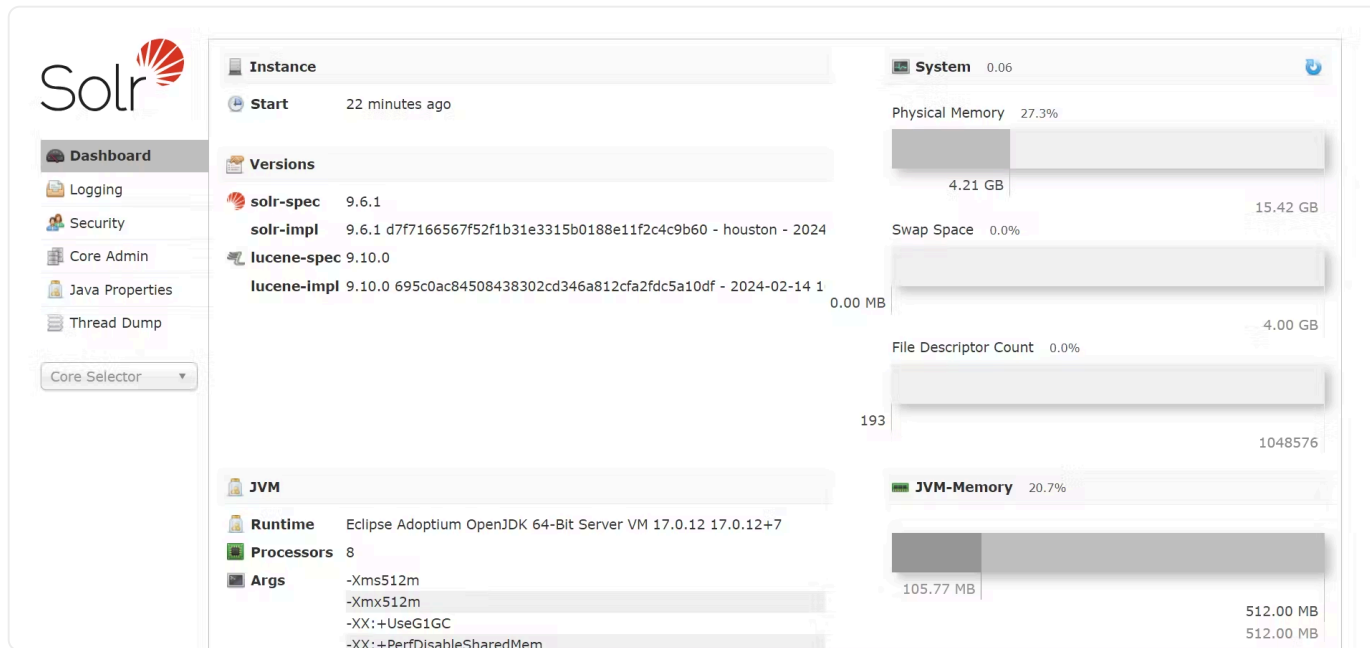### System Performance
Before:

During:

After:

SOLR

Before:

During:

After:

Conclusion:

- Error rate is 0.01%;
- CPU consumption is 95-100% during the test;
- Memory consumption <60%.

The benchmarking test showed errors during test run. Number of VUsers should be decreased.
CPU load should be taken into account.