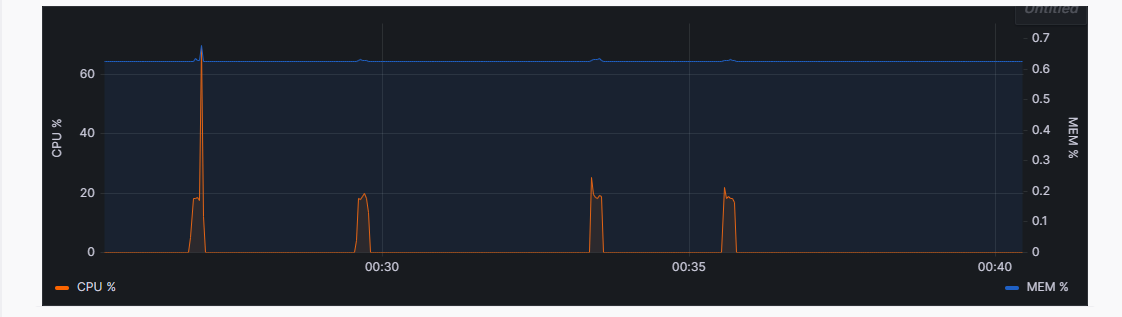
**Load Testing for 1000 HTTP requests**

I used Apache JMeter benchmarking tool to perform load testing on the virtual machine and used an extension called Container Watch for docket. My findings are as follows:

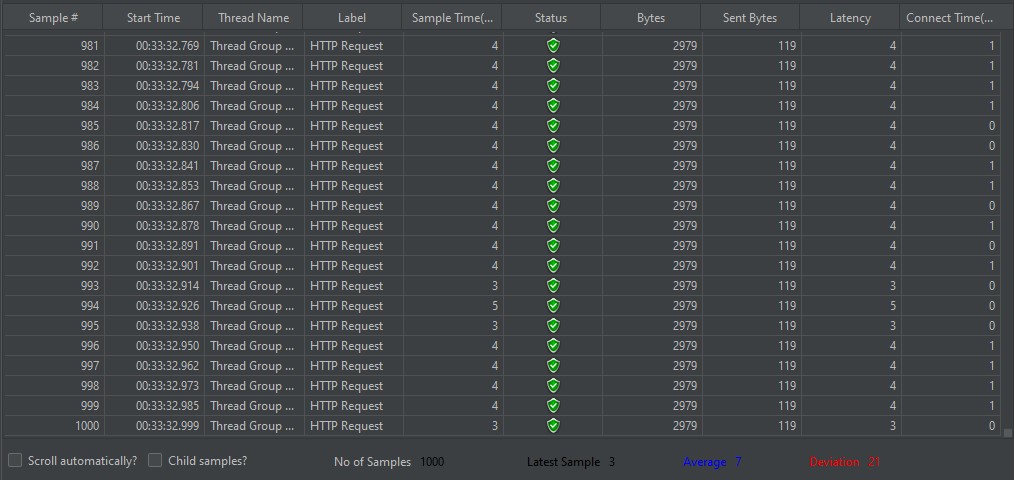
**Docker:**

As the graph shows, CPU utilization bumps up-to more than 60% when the request simulation is carried out. After the simulation is complete, it comes down in the range of 18% - 25%.



**JMeter:**

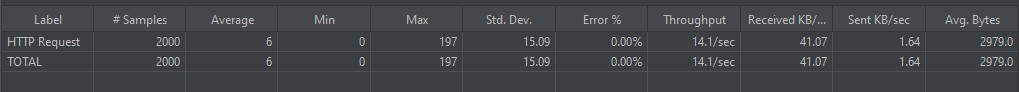
The following table shows 1000 simulated requests with the timestamp, size of the data sent, request latency, etc.

****

This table shows the summary of the above 1000 HTTP requests. Some of the important metrics are:

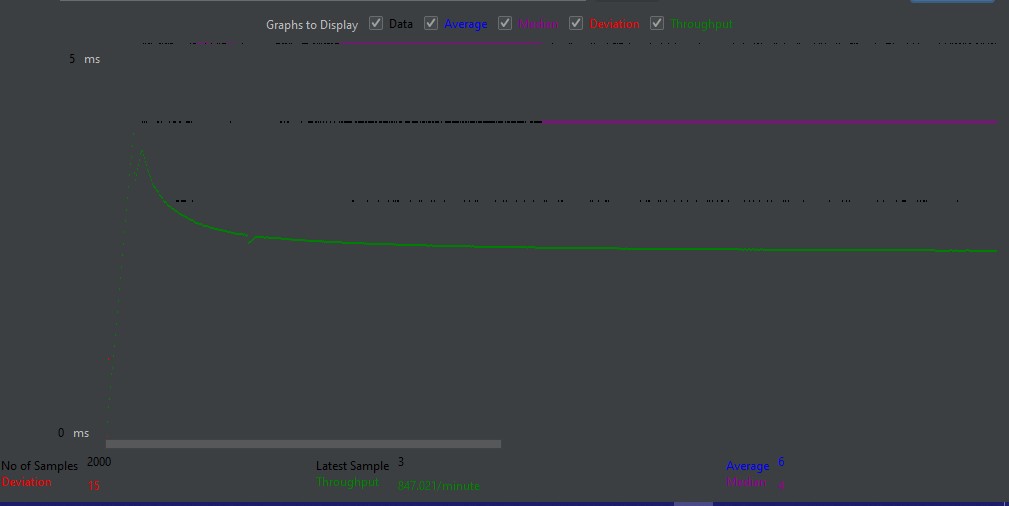
**Error %:** 0

**Throughput:** 14.1/sec

****

I carried out the simulation twice. The following graph shows the data of 2000 samples. Some of the important metrics are:

**Throughput:** 847.021/min)



**Conclusion:**

In conclusion, our comparison of Docker and Vagrant deployments for a web app highlights Docker's faster startup time as a significant advantage. However, Vagrant is more resource-efficient and offers precise environment control. The choice depends on project needs, favoring Docker for speed and scalability and Vagrant for resource-conscious scenarios.