Latency vs Number of Users ([Latency\_vs\_numberOfUsers.PNG](https://github.com/LouizaAgroti1/EPL425_Fall18_Team5/blob/master/Assignment1/plots/Latency_vs_numberOfUsers.PNG)):

Communication latency is increasing as the number of users are increasing. The time between sending a request and receiving the respective response is greater as the number of users increases, because server gets more requests at the same time. As a result, it needs more time to serve an increasing number of requests by sending each time the respective response.

The graph for 1 vCPU is the same as the graph with 2 vCPUs. This is because a single core is not limited to running a single thread. Also, the number of users is only 10, so the threads that were created can be scheduled efficiently on a single core, so we do not notice a difference.

Throughput vs Number of Users ([Throughput\_vs\_numberOfUsers.PNG](https://github.com/LouizaAgroti1/EPL425_Fall18_Team5/blob/master/Assignment1/plots/Throughput_vs_numberOfUsers.PNG)):

Throughput is decreasing as the number of users are increasing. The amount of requests that the server satisfies in a given interval is increasing, because the number of users is increasing.

The graph for 2 vCPU has worse results than 1 vCPU because the 2 vCPU is underused.

Throughput vs CPU Load ([Throughput\_vs\_CPULoad\_1vCPU.PNG](https://github.com/LouizaAgroti1/EPL425_Fall18_Team5/blob/master/Assignment1/plots/Throughput_vs_CPULoad_1vCPU.PNG), [Throughput\_vs\_CPULoad\_2vCPU.PNG](https://github.com/LouizaAgroti1/EPL425_Fall18_Team5/blob/master/Assignment1/plots/Throughput_vs_CPULoad_2vCPU.PNG)):

Throughput is the same for the two graphs.

Throughput vs Memory Utilization ([Throughput\_vs\_MemoryUtilization\_1vCPU.PNG](https://github.com/LouizaAgroti1/EPL425_Fall18_Team5/blob/master/Assignment1/plots/Throughput_vs_MemoryUtilization_1vCPU.PNG), [Throughput\_vs\_MemoryUtilization\_2vCPU.PNG](https://github.com/LouizaAgroti1/EPL425_Fall18_Team5/blob/master/Assignment1/plots/Throughput_vs_MemoryUtilization_2vCPU.PNG)):

Throughput is the same for the two graphs.