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Report for PA-4

The given load generator works on 6 cores whereas the server runs on 1 core. They don't share the cores. The **think time** I provided is **0.05 seconds & Test duration** is **60 seconds** each.

The Load generator started from **800 users** and continued till **1500 users** in increments of **100** users after each test duration. The graph plotted does 8 total points.

The peak throughput is around 21000-22000 requests per second on average after various tests and value mappings.

The server uses 50 worker threads for it's purpose. After 1000 users, the core consistently has >95% of the core usage. The **IO utility remains low** as HTML file ends up being cached. The bottleneck ends up being the CPU which is being utilized to it's maximum. All the stats from the load generator are based on VS Code terminal. Bash terminal had ulimit concerns so I used VS Code instead for ease.

Graph for Throughput and Response Time :-