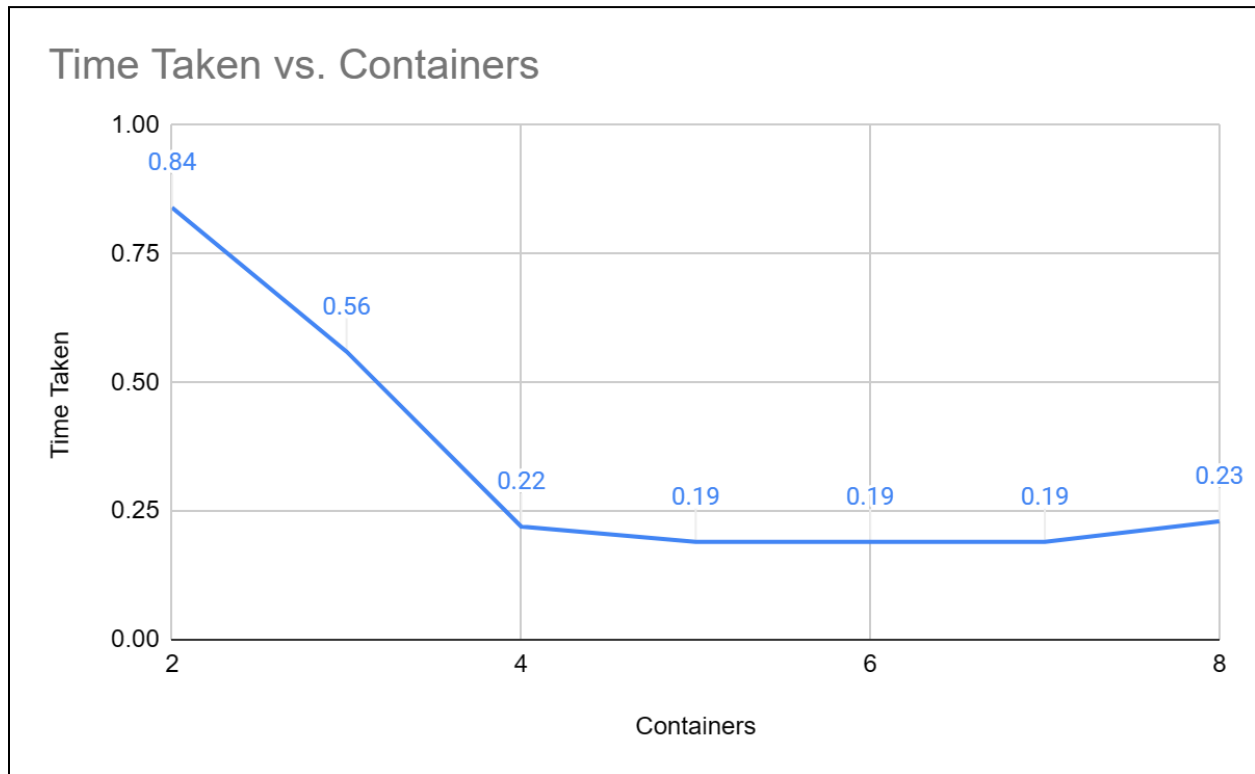


MPI analysis with Docker containers



By varying the number of containers for an MPI program in docker, it is clear from the graph that increasing containers reduces the execution time. As the number of processes allotted increases, this results in reducing the overall computation time.

However, after 5 containers the execution time remains almost the same. This could be as the start up time increases with the increasing containers. Along with this it also increases the communication and synchronization time between the increasing number of containers.