Cloud Computing Chat Server Scalabilty

NGINX:

- Scaling up by having a Server Pool, so requests can be sent to different Servers by using different Algorithms
- Port 80 is the Standard Web Server without TLS. TLS is not working in my App in acse it works. TLS Connections configuration listens on Port 443
- I use a hash Algorithm wich hashes the clients IP Adress. So all requests from same Client will go to the same Server.

NGINX Configuration:

- Worker Processes: used to specify the total number of worker processes to spawn simultaneously
- Worker Conections: the maximum number of simultaneous connections that each worker process can manage.
 Although 512 is the default value of the worker_connections in Nginx, most systems still have sufficient resources to accommodate a higher value
- Proxy pass: passes requests to upstreams
- Upstreams: Server Pool

Socket.io Redis Adapter:

 Every packet that is sent to multiple clients sent to all matching clients connected to the current server, published in a Redis channel, and received by the other Socket.IO servers of the cluster