

- 1) **Github Repo:** [This](#) is the repo for the task. I have added the collaborators as well.
- 2) **Docker Pull Command:** `docker pull analberadocker251/go-server:latest`

In my docker hub the 'go-server' repo is public.

- 3) **Docker Hub Link:** <https://hub.docker.com/r/analberadocker251/go-server>
- 4) **Deploy Link:** <https://go-server-app.onrender.com/process-single>
- 5) **Curl for process-single:** `curl -X POST -H "Content-Type: application/json" -d '{"to_sort": [[3, 2, 1], [6, 5, 4], [9, 8, 7]]}'`  
<https://go-server-app.onrender.com/process-single>
- 6) **Curl for process-concurrent:** `curl -X POST -H "Content-Type: application/json" -d '{"to_sort": [[3, 2, 1], [6, 5, 4], [9, 8, 7]]}'`  
<https://go-server-app.onrender.com/process-concurrent>

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### -----Running the Application-----

- 1) **Pull the Docker Image:** Run the following command to pull the pre-built Docker image from Docker Hub:  
`docker pull analberadocker251/go-server`
- 2) **Run the Docker Container:** After pulling the image, use the following command to run a Docker container:  
`docker run -p 8000:8000 analberadocker251/go-server`

This command starts the container and maps port 8000 from the container to port 8000 on the host. The Go server inside the container will be accessible at <http://localhost:8000>.

- 3) **Run API Endpoints via cURL:** To test specific API endpoints using cURL, you can use the following commands:

#### **For single:**

`curl -X POST -H "Content-Type: application/json" -d '{"to_sort": [[3, 2, 1], [6, 5, 4], [9, 8, 7]]}'` <https://go-server-app.onrender.com/process-single>

#### **For concurrent:**

`curl -X POST -H "Content-Type: application/json" -d '{"to_sort": [[3, 2, 1], [6, 5, 4], [9, 8, 7]]}'` <https://go-server-app.onrender.com/process-concurrent>

**File Contents:**

- 1) 1\_Docker Build run for Go\_1.go → It contains the screen record for building the docker and running it and starting the server.
- 2) 2\_Render\_Deploy → It contains the screen record for deployment on Render.
- 3) 3\_Curl Run → It contains the screen record for the curl commands running.