## **Qoala Assignment Report**

- 1. AWS Instance Link: <a href="http://13.53.42.188/">http://13.53.42.188/</a>
- 2. Screenshots:

```
Additys  
Container downlo-nginx-1
Attaching to nginx-1, python app
nginx-1
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
nginx-1
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
nginx-1
/docker-entrypoint.sh: Launching /docker-entrypoint.d/)-0-listen-on-ipv6-by-default.sh
nginx-1
/docker-entrypoint.sh: sourcing /docker-entrypoint.d/10-listen-on-ipv6-by-default.conf
nginx-1
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
nginx-1
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
nginx-1
/docker-entrypoint.sh: Cannohing /docker-entrypoint.d/30-tune-worker-processes.sh
nginx-1
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
nginx-1
/docker-entrypoint.sh: Configuration complete; ready for start up
python app
python app
python app
| * Nerving flask app 'app'
| * Narning 'ns a development server. Do not use it in a production deployment. Use a production WSGI server instead.

Python app
| * Running on http://127.00.18000
| * Press CRIFIC to quit
python app
| * Press CRIFIC to quit
python app
| * Press CRIFIC to quit
python app
| * 172.18.0.2 - - [03/Nov/2024 17:55:11] "GET / HTTP/1.0" 200 -
nginx-1
| 115.243.103.8 - - [03/Nov/2024 17:55:12] "GET / Favicon.ico HTTP/1.1" 404 207 "http://13.53.42.188/" "Mozilla/5.0
| * Running on thtp://135.22.2 - [03/Nov/2024 17:55:12] "GET / Favicon.ico HTTP/1.1" 404 207 "http://13.53.42.188/" "Mozilla/5.0
| * Running on thtp://135.23.103.8 - - [03/Nov/2024 17:55:12] "GET / HTTP/1.0" 200 -
nginx-1
| * 115.243.103.8 - - [03/Nov/2024 17:55:12] "GET / HTTP/1.0" 200 -
nginx-1
| * 115.243.103.8 - - [03/Nov/2024 17:55:12] "GET / HTTP/1.0" 200 -
nginx-1
| * 115.243.103.8 - - [03/Nov/2024 17:55:12] "GET / HTTP/1.0" 200 -
nginx-1
| * 115.243.103.8 -
```

## 3. Identified Issues and Resolution Steps:

• Several typographical errors were found and corrected during the setup of application. In the Nginx Dockerfile 'FROM nginx:latests' was changed to 'FROM nginx:latest', 'COPY nginix.conf /etc/nginx/nginx.conf' was changed to 'COPY nginx.conf /etc/nginx/nginx.conf', EXPOSE "eighty" to EXPOSE 80, and CMD ["nginx", "-g", "daemon of;"] was updated to CMD ["nginx", "-g", "daemon off;"]. Worker process was corrected to worker processes, worker connection was corrected to worker connections, include directive was changed from include /etc/nginx/mime.typess to include /etc/nginx/mime.types, and default typ was corrected to default type in the Nginx configuration file. In the Python Dockerfile, I corrected WORKDIR /appp in to WORKDIR /app, corrected COPY appy.py /app to COPY app.py /app, replaced RUN pip install flask netiface with RUN pip install flask netifaces, EXPOSE "eight thousand" to EXPOSE 8000, and adjusted CMD [ "pythn", "app.py" ] to CMD [ "python", "app.py" ].

## 4. Summary:

 The assignment was on the Docker container configuration for Nginx and Python applications with several typographical errors noted in configuration files and Dockerfiles. The major corrections included updating base images, syntax of commands, and port definitions. With such correction, the applications were well run and effectively worked inside a containerized environment; hence, their functionality improved and performance enhanced.