**ASSESSMENT 1:**

**Docker**

**COMP3004**

**Advanced Computing and  
Networking Infrastructures**

**2022/2023**

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# Introduction

200 words. Discuss: (about the tasks assigned, background information on Docker, Nginx, load balancing, and automation)

**Project Intent**

What is the purpose of the project? What will the project do? What is it for? Why is it necessary?

**Docker**

Use of docker within project? What is it?

**Nginx**

Use of Nginx within project? What is it?

**Load Balancing**

Use of load balancing within project? What is it?

**Automation**

Use of load balancing within project? What is it?

# Experiment and Setup

375 words. Discuss: (a systematic diagram and descriptions about the system designed, system setup steps to install relevant packages/dependencies (in shell scripts, e.g. install.sh), and some

explanations)

# Automation Process

450 words. Discuss: (your written Dockerfiles, Docker Compose file, plus descriptions/explanations)

# Results and Discussion

375 words. Discuss: (evidence to show that the system works as you have designed/configured. This should include screenshots, plus descriptions/explanations, on e.g., load balancing and automation. Discussions should also cover what limitations are for the approaches taken)

# Conclusions

100 words. Conclusions here

# References

Word count not included. Harvard style