

Network Administration/System Administration (NTU CSIE, Spring 2024)

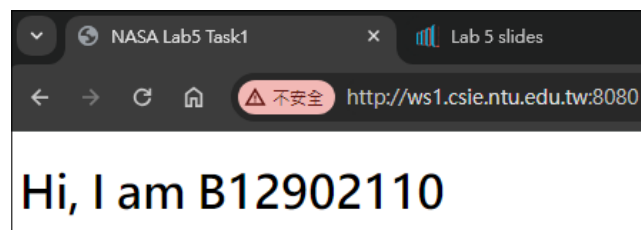
Lab 5 - Docker & Kubernetes

B12902110 呂承諺

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Task 1

```
b12902110@ws1: /tmp2/b12902110/ntu-nasa-2024-spring/lab5 (main*)  
$ docker run --rm -it --name lab5_task1 \  
-v /tmp2/b12902110/ntu-nasa-2024-spring/lab5/index.html:/var/www/html/index.html \  
-p 8080:80 ubuntu:22.04 bash
```

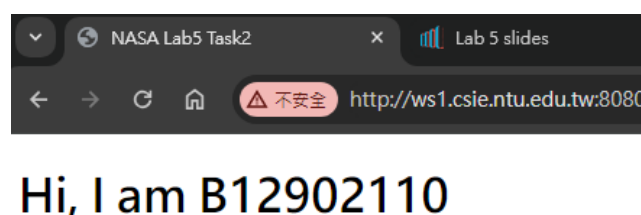


Task 2

Dockerfile:

```
FROM ubuntu:22.04  
RUN apt-get update && apt-get install -y nginx  
COPY index.html /var/www/html/index.html  
EXPOSE 80  
ENTRYPOINT [ "nginx", "-g", "daemon off;" ]
```

```
b12902110@ws1: /tmp2/b12902110/ntu-nasa-2024-spring/lab5 (main*)  
$ docker run --rm -d -p 8080:80 --name lab5_task2 lab5_task2_b12902110  
3a9dde767c338fc866f64fd5bb712bb5a03b1fdc3e6e6afc5015347f69e49b [12:16:44]  
  
b12902110@ws1: /tmp2/b12902110/ntu-nasa-2024-spring/lab5 (main*)  
$ docker ps [12:16:59]  
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES  
3a9dde767c33   lab5_task2_b12902110  "nginx -g 'daemon of..." 7 seconds ago  Up 1 second  0.0.0.0:8080->80/tcp, :::8080->80/tcp  lab5_task2
```



Task 3

```
user@nasa-lab5:~$ kubectl events --for deployment/lab5-b12902110
```

LAST SEEN	TYPE	REASON	OBJECT	MESSAGE
2m1s	Normal	ScalingReplicaSet	Deployment/lab5-b12902110	Scaled up replica set lab5-b12902110-59cb554f9d to 1
62s	Normal	ScalingReplicaSet	Deployment/lab5-b12902110	Scaled up replica set lab5-b12902110-9bf879d5c to 1
60s	Normal	ScalingReplicaSet	Deployment/lab5-b12902110	Scaled down replica set lab5-b12902110-59cb554f9d to 0 from 1

