

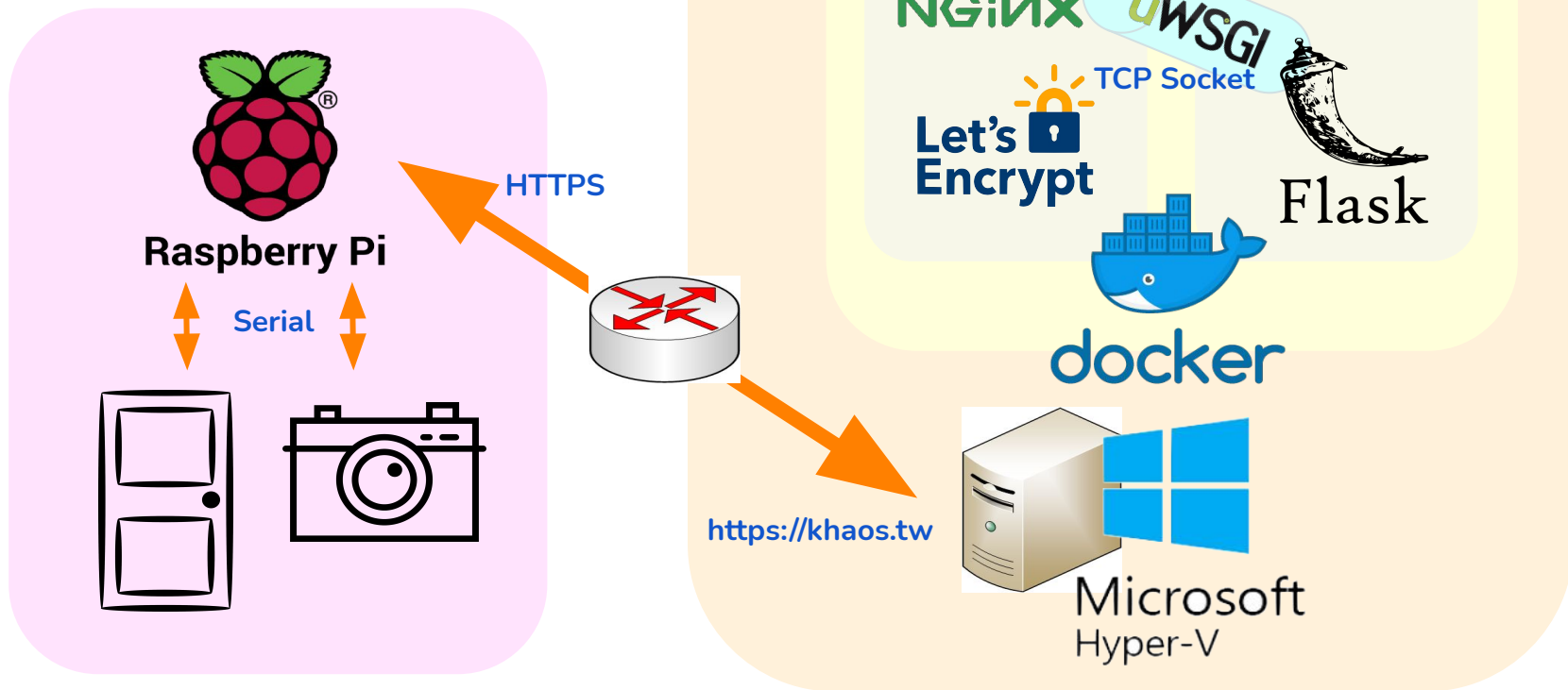
IOT專題-智慧門鈴

組員：

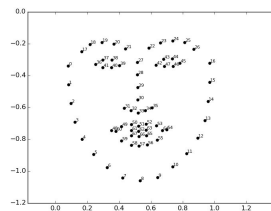
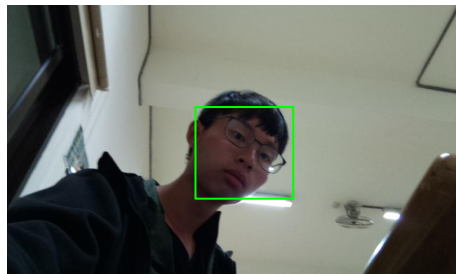
資工所 R09922072 歐鎧豪

電機系 B07901088 陳秉嘉

系統架構



人臉辨識



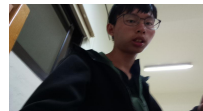
68點特徵



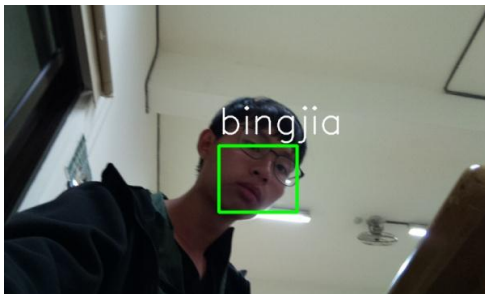
128維向量



members



計算RMS誤差



其他相關技術



Client UI - Web Based

khaos.tw 顯示
有新的訪客！

確定

IOT智慧門鈴

組員：歐鎰豪、陳秉嘉



保持上鎖

同意放行

目前只支援一個門鈴、網站使用人數沒有限制

Client UI - LINE Chat Bot



目前只支援一個門鈴、Chat Bot 使用人數沒有限制



遭遇的困難 1

LINE Chat Bot 訊息

Send push message

Sends a push message to a user, group, or room at any time.

```
POST https://api.line.me/v2/bot/message/push
```

Send broadcast message

Sends push messages to multiple users at any time.

```
POST https://api.line.me/v2/bot/message/broadcast
```

```
curl -v -X POST \  
https://api.line.me/v2/bot/message/push \  
-H 'Content-Type: application/json' \  
-H 'Authorization: Bearer {channel access token}' \  
-d '{  
  "to": "U4af4980629...",  
  "messages": [  
    {  
      "type": "text",  
      "text": "Hello, world1"  
    }  
  ]  
'
```

```
curl -v -X POST \  
https://api.line.me/v2/bot/message/broadcast \  
-H 'Content-Type: application/json' \  
-H 'Authorization: Bearer {channel access token}' \  
-d '{  
  "messages": [  
    {  
      "type": "text",  
      "text": "Hello, world1"  
    }  
  ]  
'
```



遭遇的困難 2

sudo docker run

```
sudo docker run --rm \  
  --memory 6144MB \  
  --name iotFace \  
  --cpu-period=100000 --cpu-quota=300000 \  
  -v ~/iot_face:/iot_face \  
  okh8609/face:test /bin/bash /iot_face/run.sh
```



```

import requests
import json

myURL = 'http://192.168.50.122:2375/containers/create'
myHeader = {'Content-type': 'application/json'}
myData = {
    "Image": "okh8609/face:test",
    "Cmd": ["/bin/bash", "/iot_face/run.sh"],
    "HostConfig": {
        "AutoRemove": True,
        "Memory": 6442450944,
        "CpuPeriod": 100000,
        "CpuQuota": 300000,
        "Binds": ["/home/kh/iot_face:/iot_face"]
    }
}

response = requests.post(myURL, data=json.dumps(myData), headers=myHeader)

myURL = 'http://192.168.50.122:2375/containers/'+json.loads(response.text)["Id"]+'/start'
response = requests.post(myURL)

```

```
import docker
client = docker.DockerClient(base_url='tcp://192.168.50.122:2375').api
container = client.create_container(
    image='okh8609/face:test',
    command='/bin/bash /iot_face/run.sh',
    volumes=['/iot_face'],
    host_config=client.create_host_config(
        binds=['/home/kh/iot_face:/iot_face'],
        cpu_period=100000, cpu_quota=300000,
        mem_limit=6442450944,
        auto_remove=True
    )
)
response = client.start(container=container.get('Id'))
print(response)
```