

애저로운 스마트생활

서지연

네이버에서 즐겁게 개발중



#애저 평션 #InternetOfThings
#에어컨 #스마트컨트롤
#하지만 #돈으로해결하면되는것들 #가난iot #애처로운스마트생활

'주말 폭염 최고조'..폭염 위기경보 '심각' 격상

변해정 입력 2019.08.03. 13:51 댓글 410개

| 행안부, 중앙재난안전대책본부 비상 1단계 가동



【서울=뉴시스】서울 중구 명동에서 관광객과 시민들이 휴대용 선풍기, 부채 등을 이용해 더위를 식히고 있다. 2019.08.03.

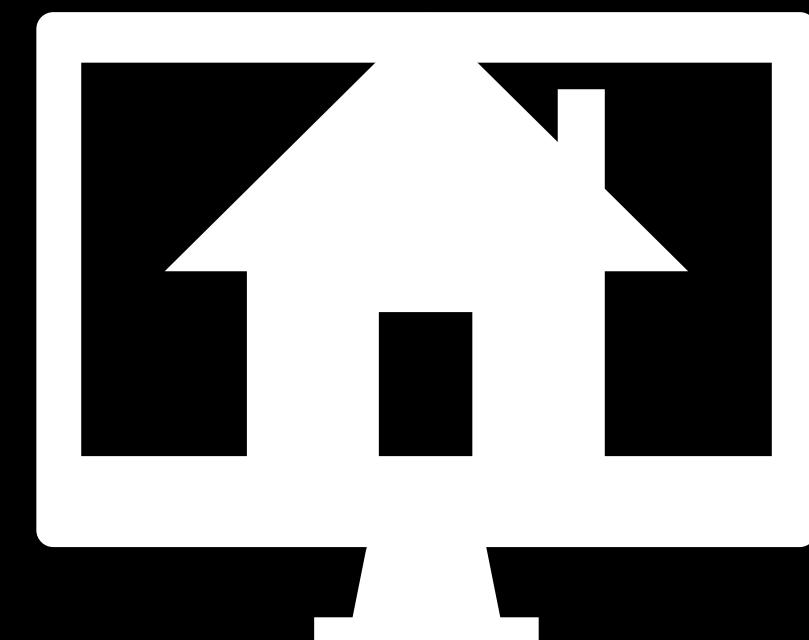
【세종=뉴시스】변해정 기자 = 정부가 폭염 위기경보 단계를 최고인 '심각'으로 격상해 총력 대응하기로 했다.

행정안전부는 3일 오후 1시를 기해 '중앙재난안전대책본부'(중대본)을 가동하고 비상 1단계 근무에 들어 갔다고 밝혔다.

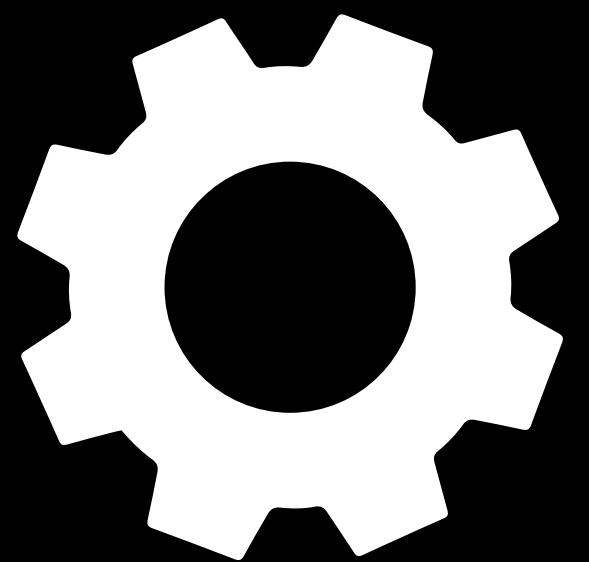
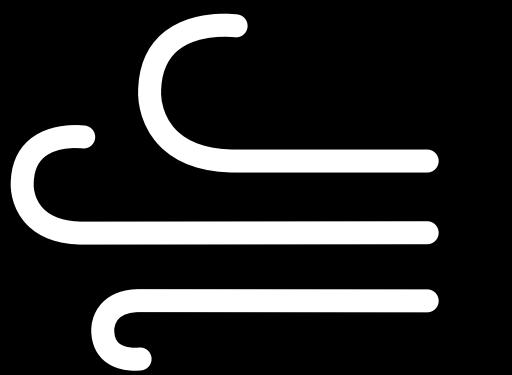
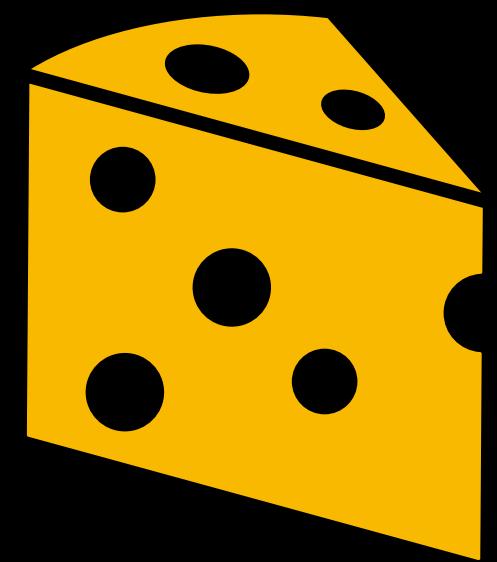
출처 : <https://news.v.daum.net/v/20190803135106478>

집에 **도착하기 전에**
에어컨이 켜져있었으면 좋겠다.

라즈베리파이



에어컨



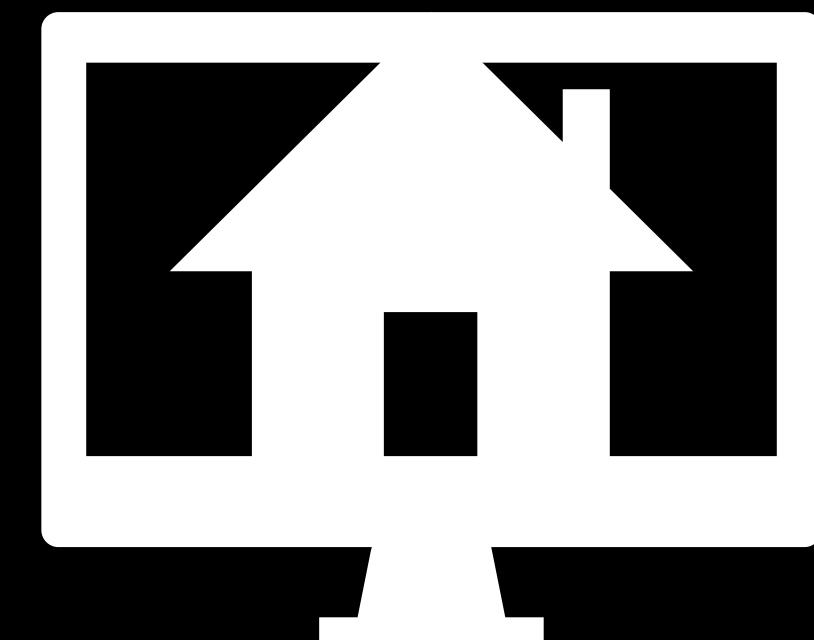
리모컨 대신

Azure

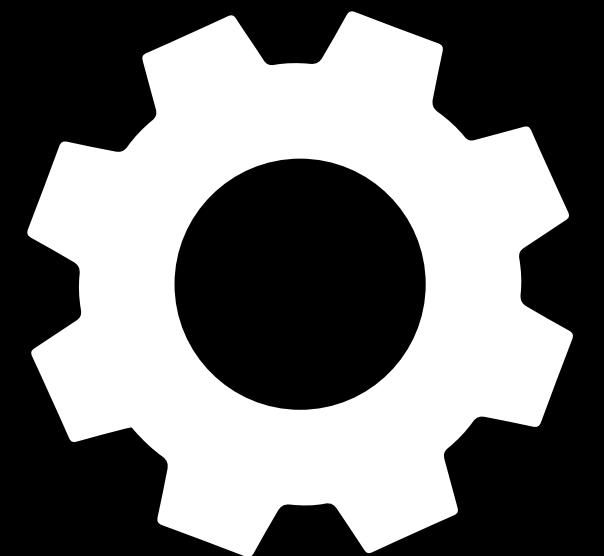
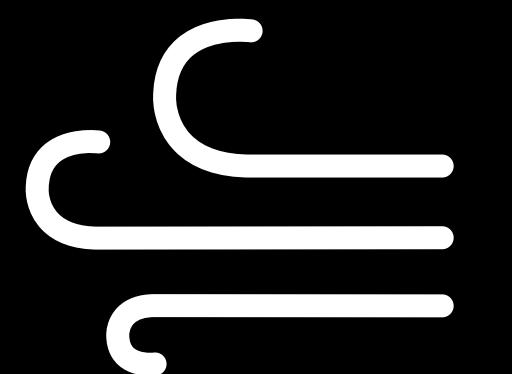
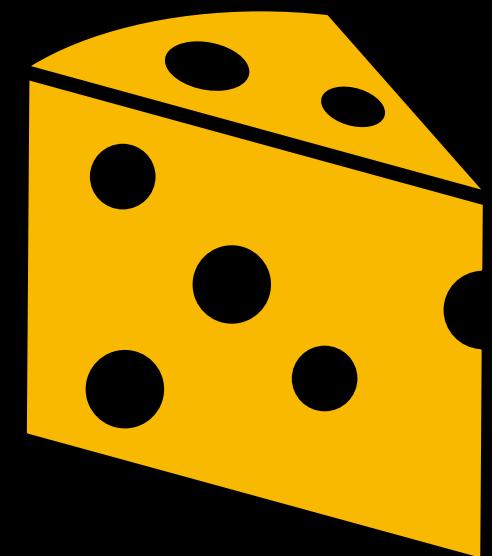


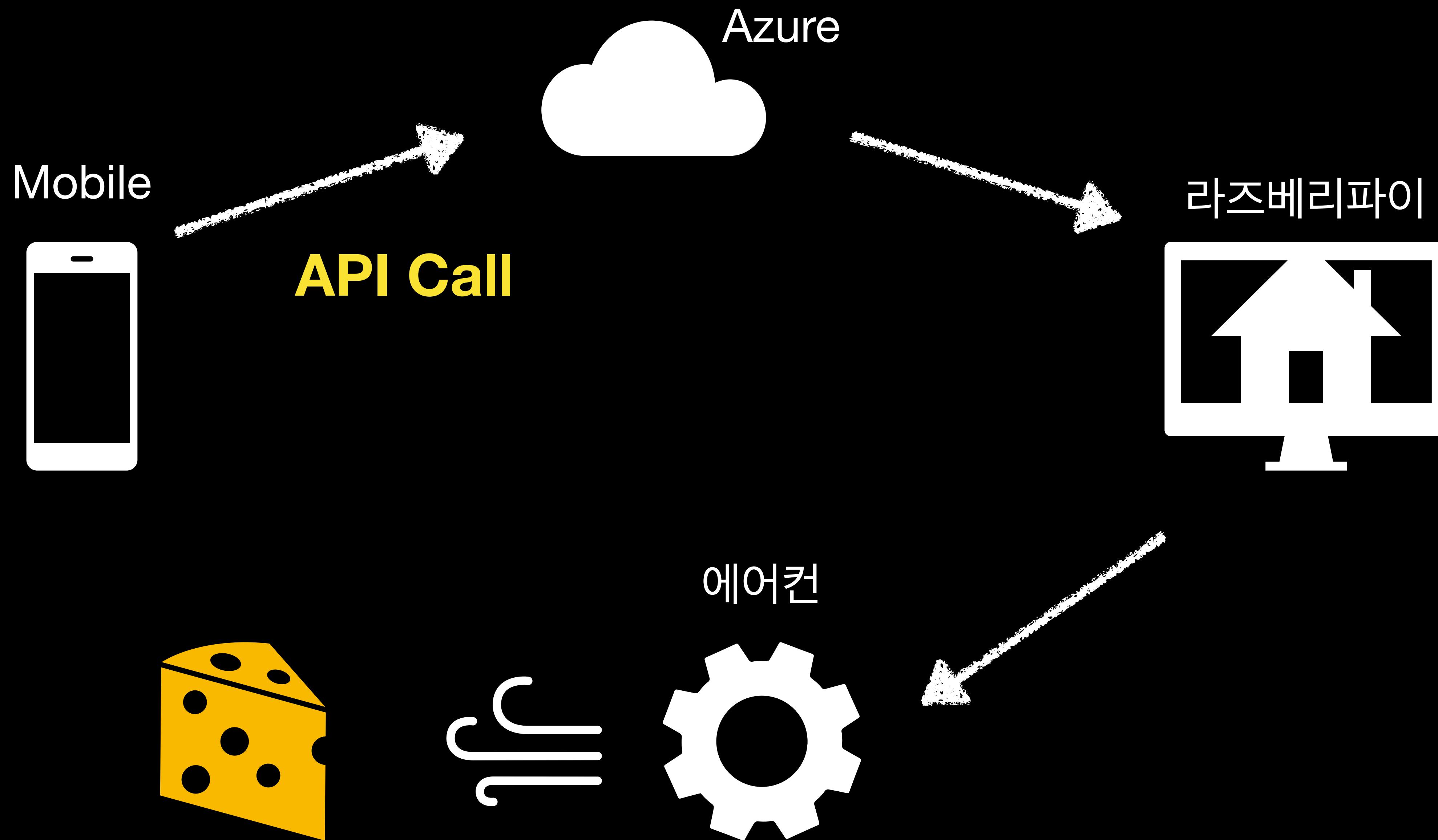
API Call

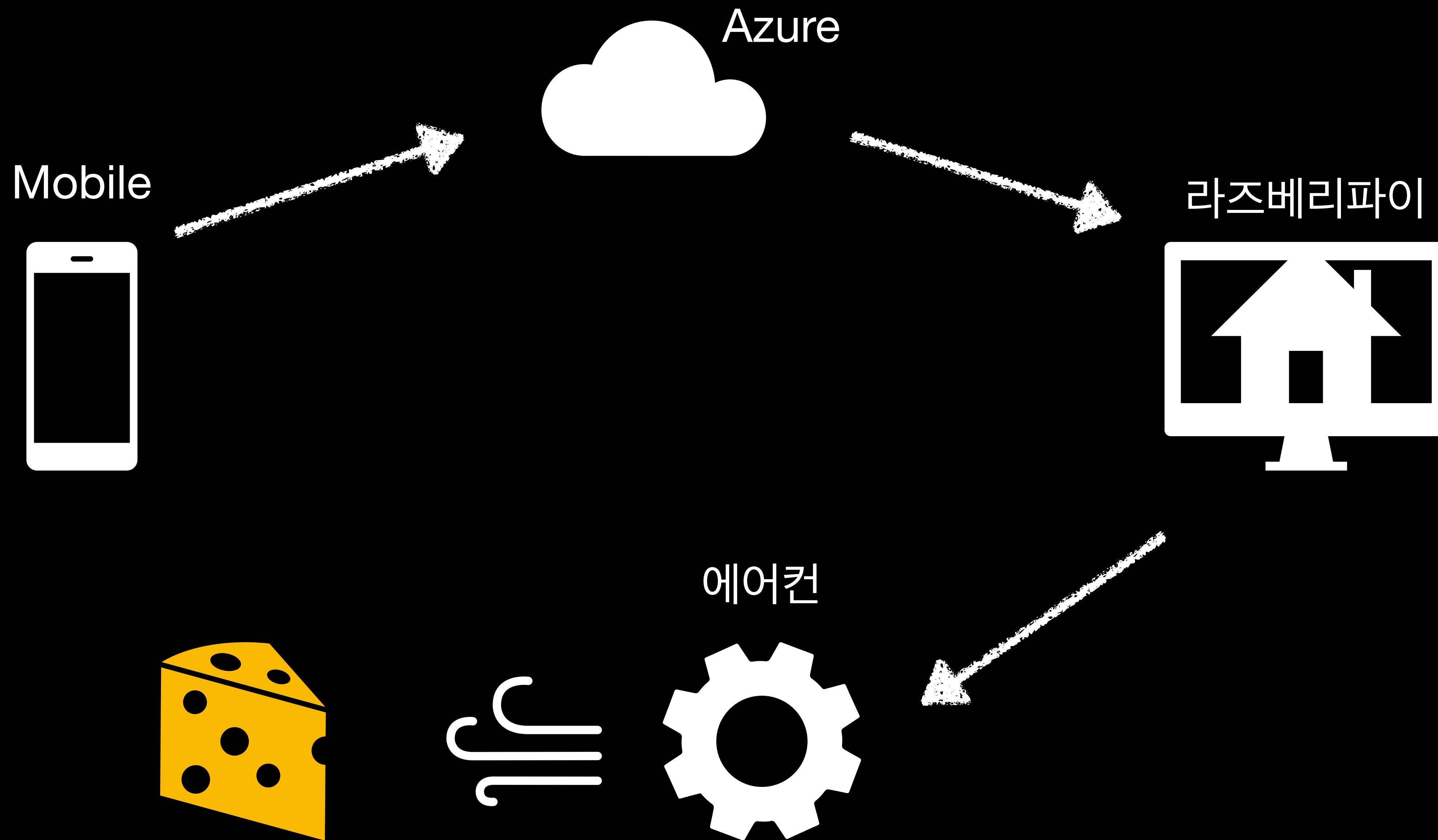
라즈베리파이



에어컨







라즈베리파이 - 리모컨

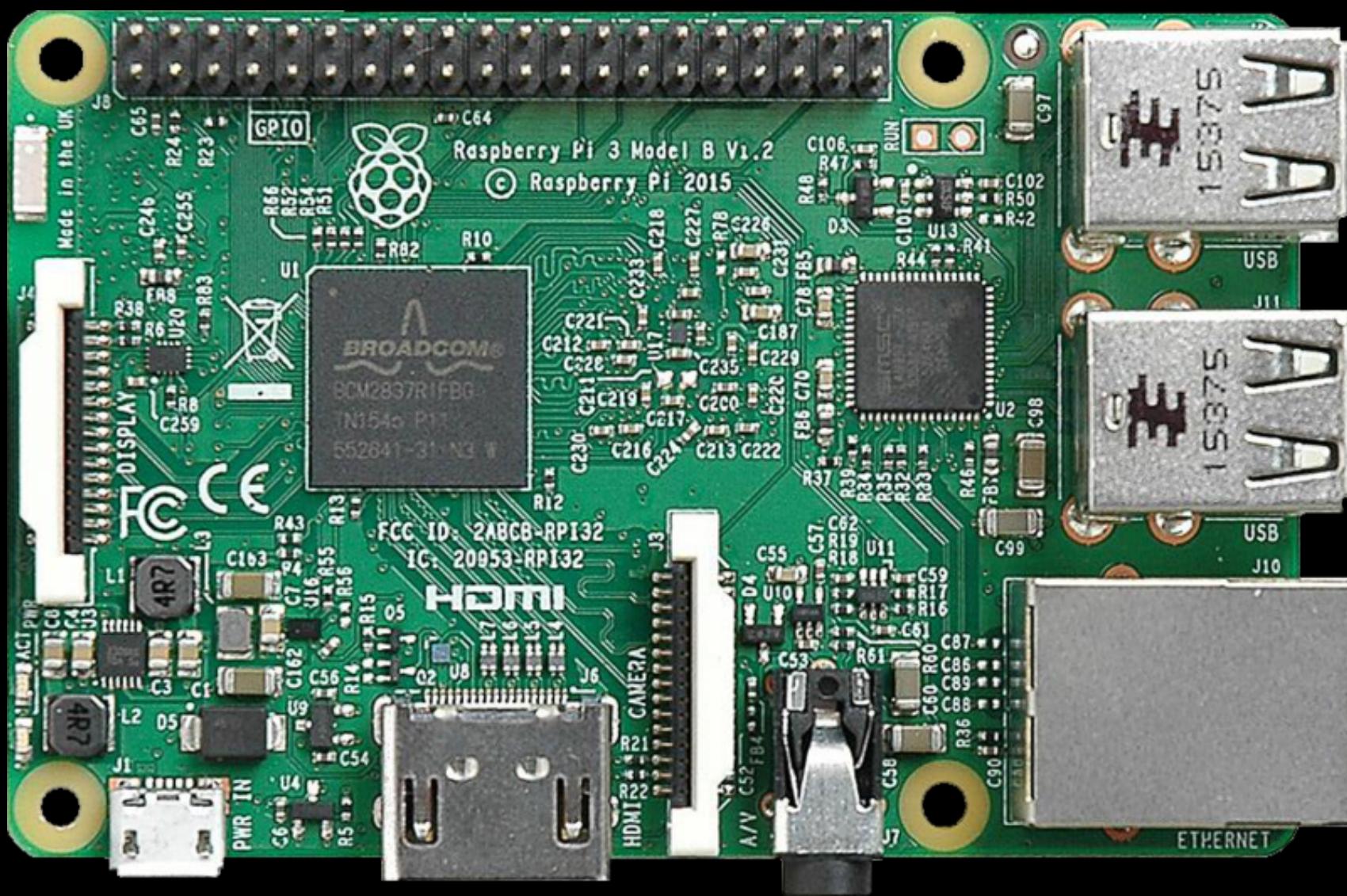
라즈베리파이



에어컨

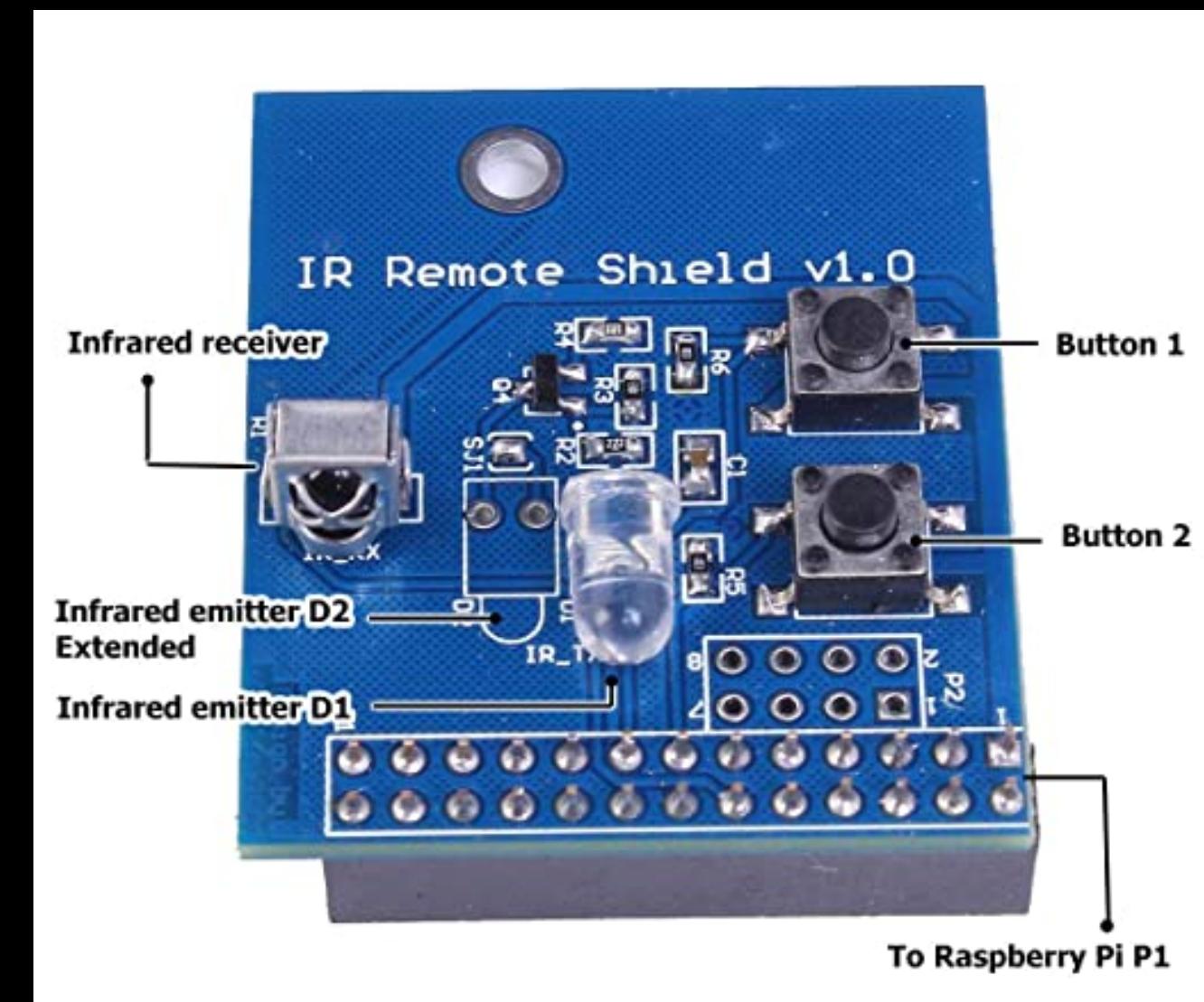
리모컨 대신

준비물 - 하드웨어



라즈베리파이 3

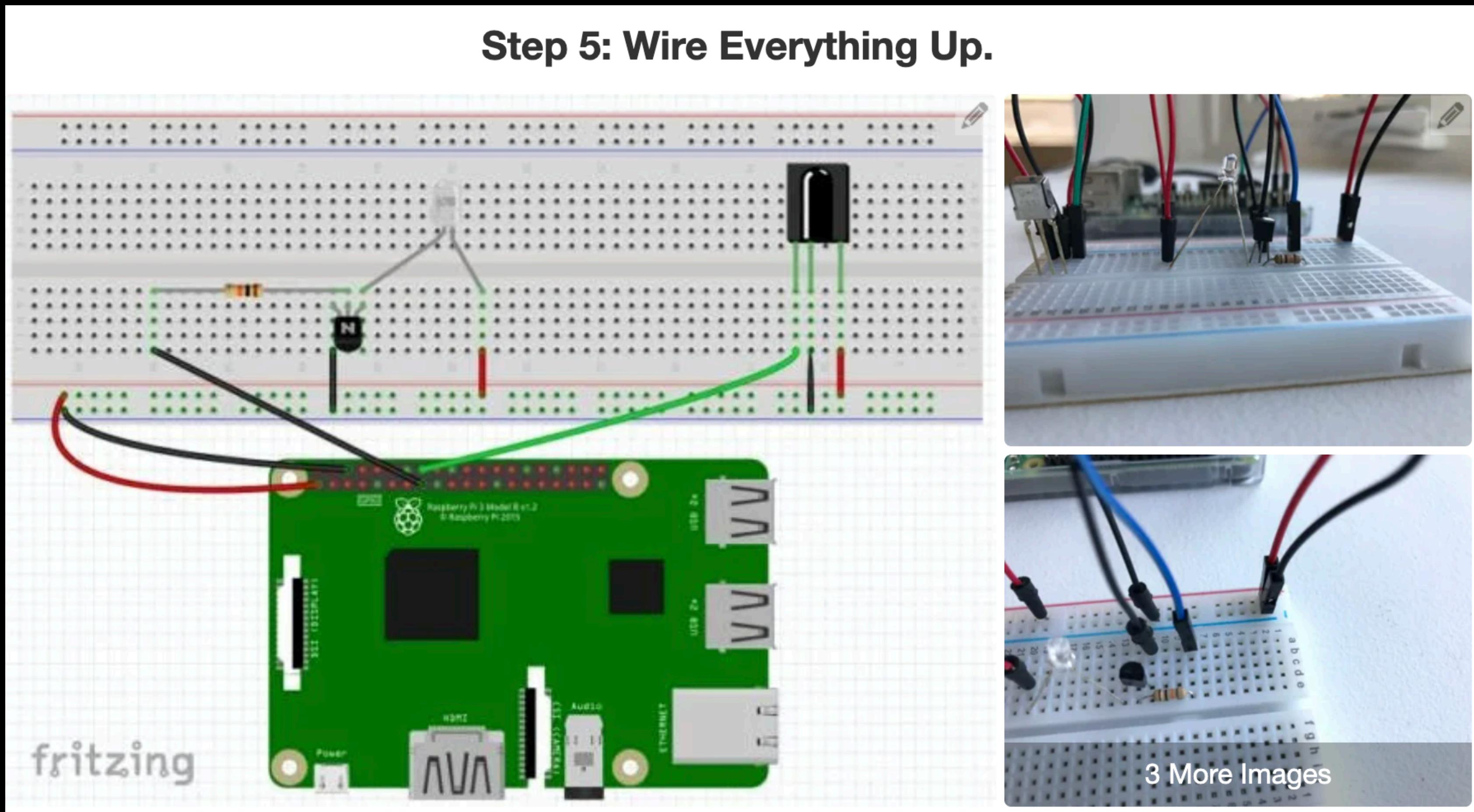
나도 갖고 싶다 라즈베리파이 4



IR SENSOR MODULE

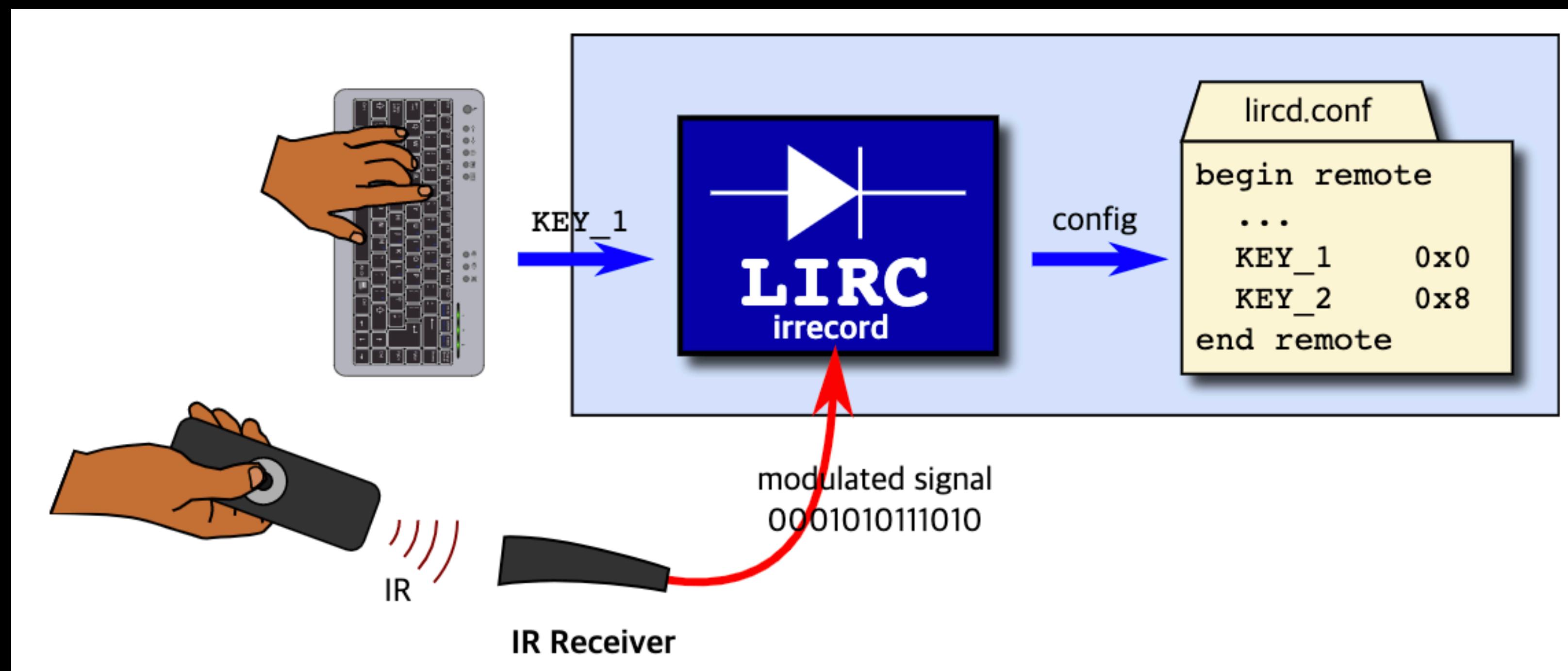
알리익스프레스 배송 부들부들

빵판에 직접하면 이런 식으로



LIRC

Linux Infrared Remote Control



LIRC



```
sudo apt-get install lirc

sudo vi /etc/modules

## /etc/modules 안에 아래와 같이 추가
lirc_dev
lirc_rpi gpio_in_pin=18 gpio_out_pin=17 # 수신 18번 송신 17번 핀을 이용.

## /etc/lirc/hardware.conf 안에 추가
LIRCD_ARGS="--uinput --listen"
LOAD_MODULES=true
DRIVER=default
DEVICE=/dev/lirc0
MODULES=lirc_rpi

## /etc/lirc/lirc_options.conf 에 아래 추가
[lircd] # 이거 아래에 추가
driver = default
device = /dev/lirc0

## 추가 뒤 lirc 데몬 깃다 키기
sudo /etc/init.d/lircd stop
sudo /etc/init.d/lircd start

# http://lirc.sourceforge.net/remotes/samsung/lircd.conf.samsung
## 리모콘 lircd.conf 파일을 /etc/lirc/lircd.conf.d/ 로 옮겨준다
sudo cp lircd.conf /etc/lirc/
sudo /etc/init.d/lircd restart
```

lircd.conf

```
# BTN_18_OFF_NO_SWING - 끄기 with 냉방/18도/날개중지  
# BTN_18_ON_NO_SWING - 켜기 with 냉방/18도/날개중지  
# BTN_18_OFF_SWING - 끄기 with 냉방/18도/날개작동  
# BTN_18_ON_SWING - 켜기 with 냉방/18도/날개작동
```

```
begin remote
```

```
    name my-ac  
    flags RAW_CODES  
    eps 30  
    aeps 100  
  
    gap 8929
```

```
begin raw_codes
```

| name BTN_18_OFF_NO_SWING | | | | | | |
|--------------------------|-------|------|------|-----|------|--|
| 632 | 17684 | 3048 | 8887 | 541 | 444 | |
| 552 | 1440 | 545 | 441 | 556 | 436 | |
| 547 | 444 | 550 | 441 | 552 | 439 | |
| 554 | 439 | 556 | 435 | 550 | 1438 | |
| 551 | 440 | 554 | 436 | 557 | 1455 | |
| 535 | 1452 | 545 | 443 | 551 | 1435 | |
| 552 | 1429 | 548 | 1437 | 551 | 1432 | |
| 556 | 1427 | 550 | 441 | 553 | 439 | |
| 555 | 437 | 558 | 434 | 549 | 443 | |
| 551 | 467 | 527 | 465 | 529 | 463 | |

node 서버와 연결하기

Live Coding

<https://github.com/jiyeonseo/remote-control-node-server>

완성!



Node server(라즈베리파이)
+ surge.sh

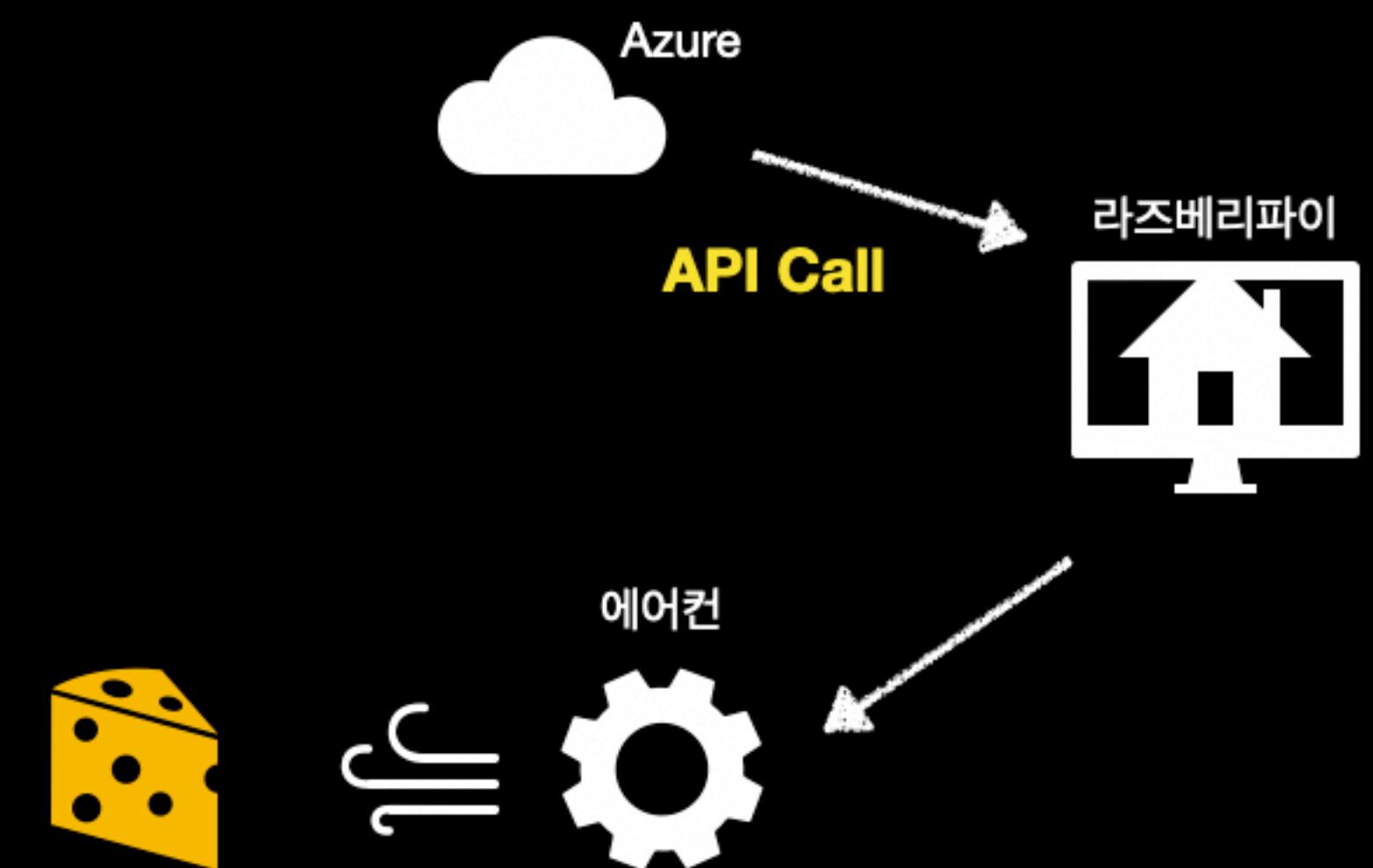
#보안문제

#아이피주소만알면 #모두의에어컨

```
<script>
  const RAS_IP =
    let status = 0;
```

#작업환경열악 #확장힘듬
#라즈베리파이3 #와이파이없음 #에어컨에서멀어지면안댐 #휴대용모니터없음

Azure function + Serverless Framework



Function as a Service

- 프레임워크, 인프라는 잠시 잊고
- 비지니스 로직에만 집중
- 저렴한 운영 비용

Serverless Framework



serverless
framework

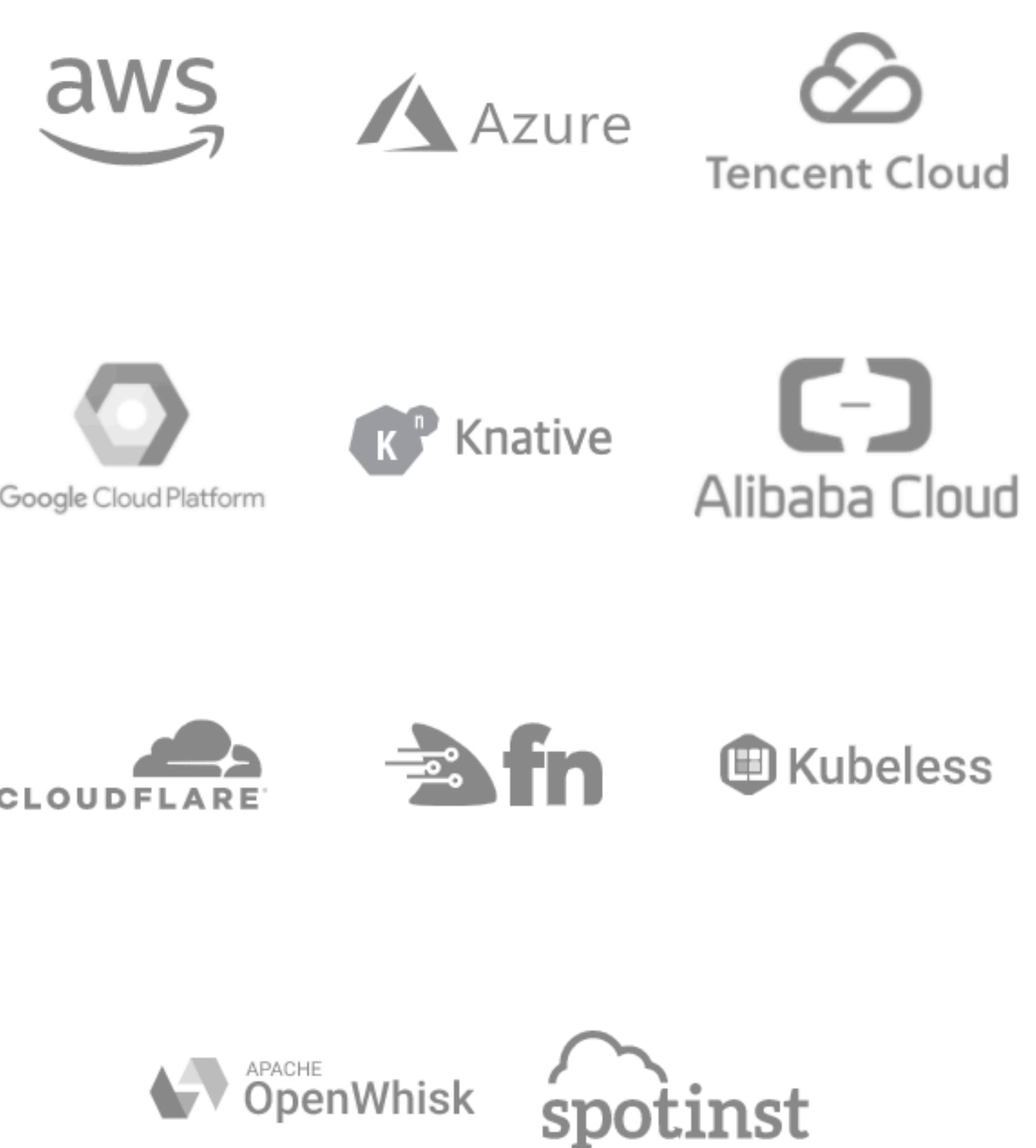
the easy & open way to build serverless applications



Serverless Framework

- yaml 설정만으로 클라우드 설정 가능

```
1 name: my-rest-api
2 functions:
3   submit:
4     handler:
5       runtime:index.submit
6     events:nodejs10.x
7     -http:
8       path:/submit
9       method:post
```



Serverless Framework

- CLI 제공



```
serverless create --template azure-nodejs
```

```
serverless deploy
```

```
serverless invoke --function functionName
```

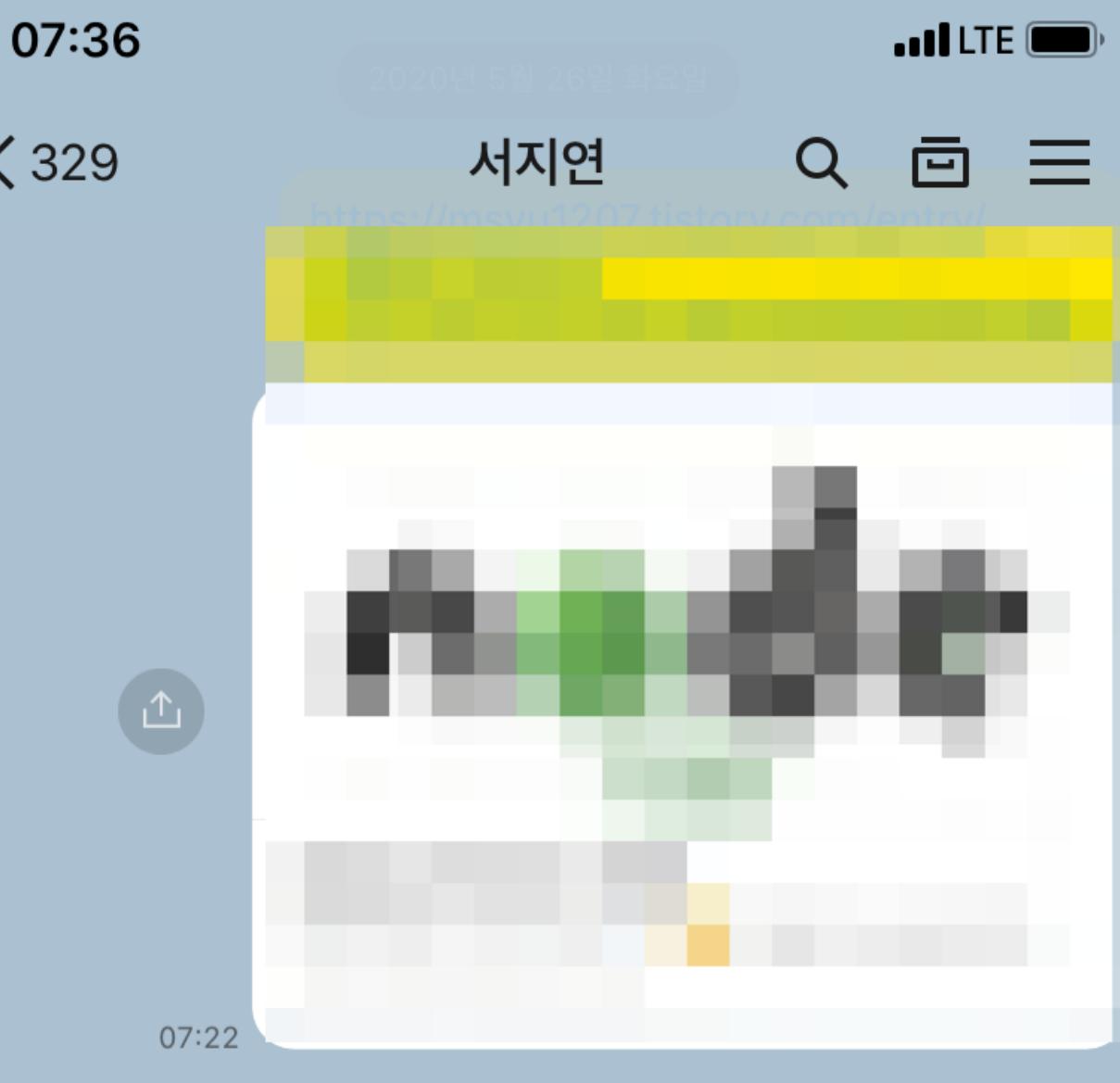
Serverless Framework

Live Coding

<https://github.com/jiyeonseo/ac-azure-function>

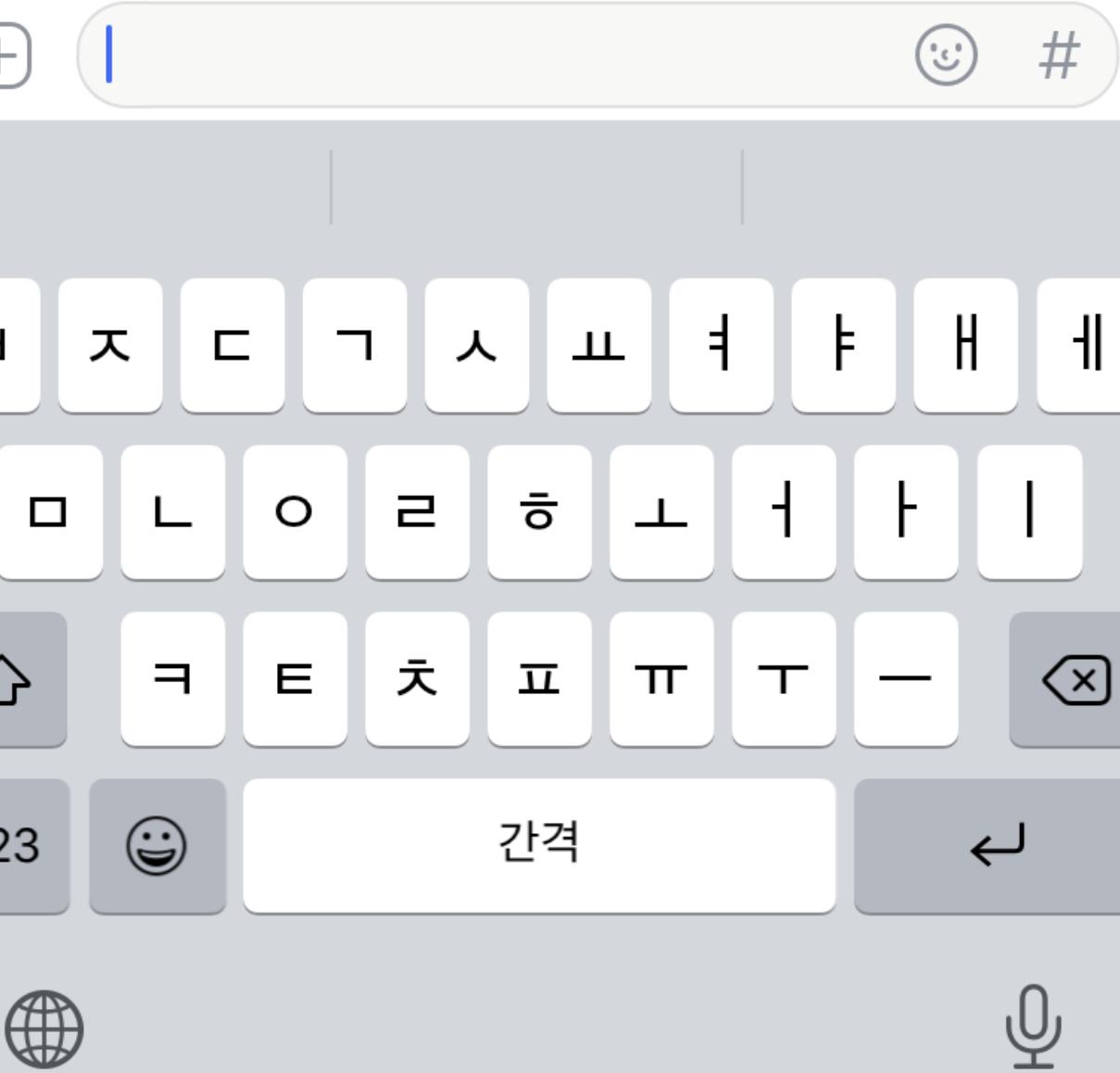
#사용불편

#직접URL #URL노출되면 #모두의에어컨

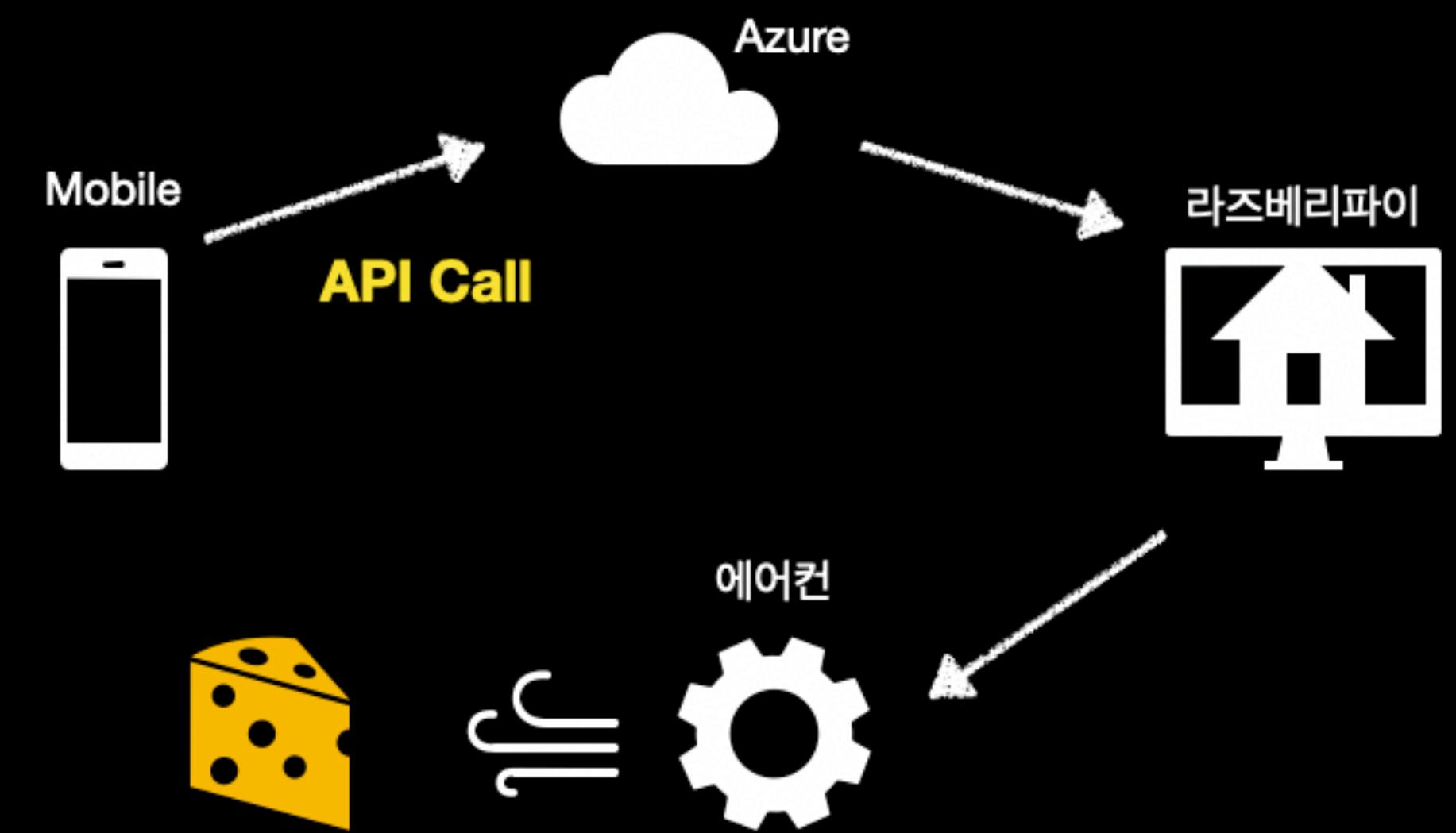


2020년 5월 27일 수요일

http://[REDACTED].azurewebsites.net/api/hello?name=cheese



Proxy - 스마트하게 연결하기



Messenger Platforms

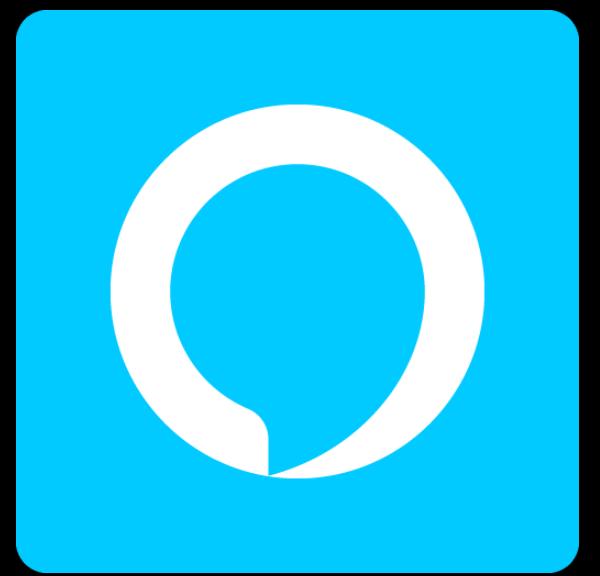


Line Bot 연결

Live Coding

<https://github.com/jiyeonseo/azure-line-bot-example>

AI 어시스턴트



AI 어시스턴트 (단축어 주의)

