



Over-engineering My Home with Kubernetes



KubeCon



CloudNativeCon

Europe 2018

@mattgruter

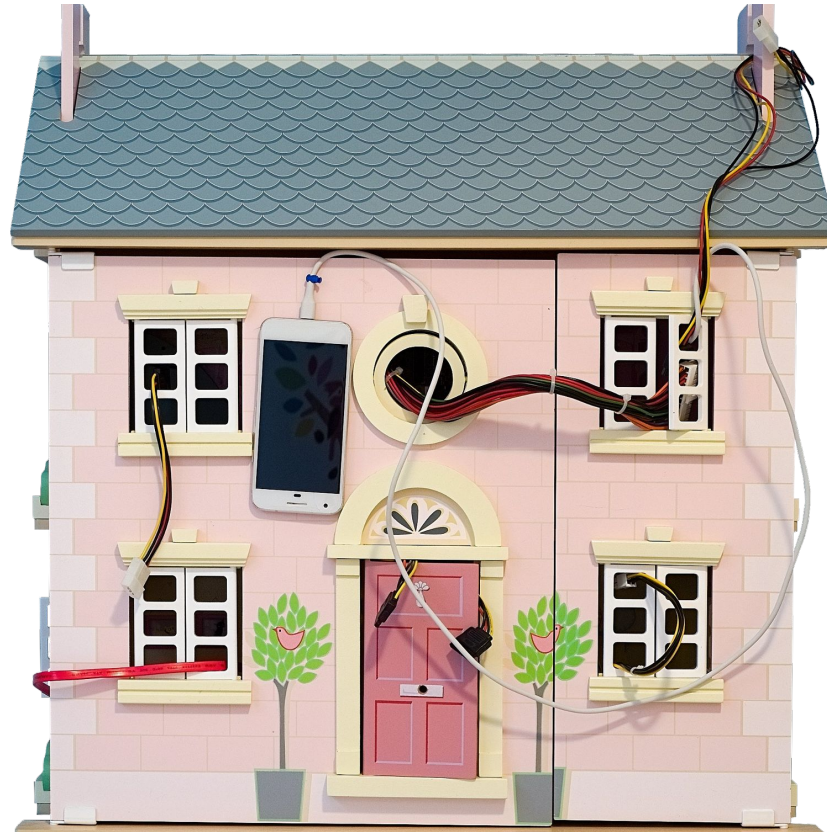
2018-12-03



Home



Smart Home





“I want more than just lights!”







Home Assistant


```
- id: disco-time
trigger:
  platform: state
  entity_id: media_player.spotify
  to: 'playing'
condition:
  condition: template
  value_template: >
    {{ trigger.to.state.attributes.media_title ==
'I Like To Move It' }}
action:
  service: scene.turn_on
  entity_id: scene.party_lights
```

```
~
~
~
~
```





1

Kubernetes



+



1

Kubernetes

```
$ kubectl run --image=homeassistant/home-assistant "home" --port=8123  
deployment "home" created
```

1

Kubernetes



2

Monitoring

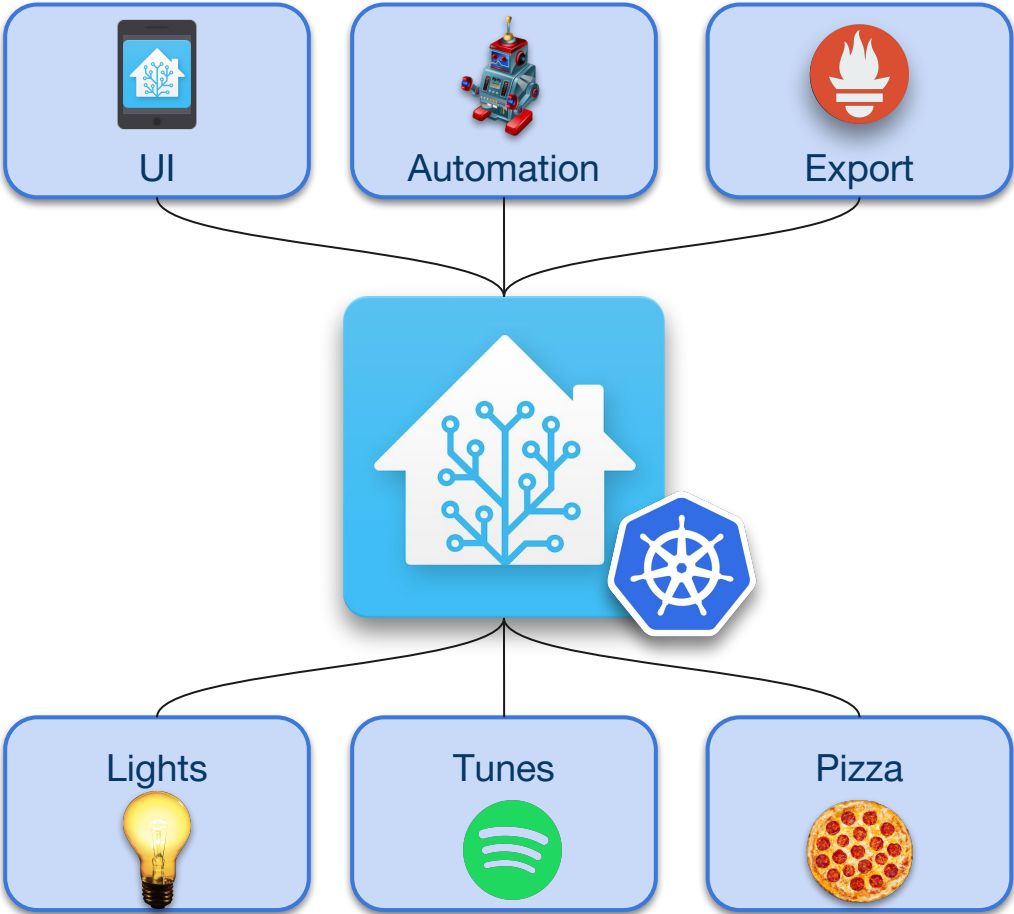
+



2

Monitoring

```
$ curl https://home.motunui.net/api/prometheus  
  
# HELP temp_bedroom sensor.temp_bedroom  
# TYPE temp_bedroom gauge  
temp_bedroom{entity="sensor.temp_bedroom",friendly_name="Bedroom temperature"} 21.7  
# HELP humi_bedroom sensor.humi_bedroom  
# TYPE humi_bedroom gauge  
humi_bedroom{entity="sensor.humi_bedroom",friendly_name="Bedroom humidity"} 41.4
```

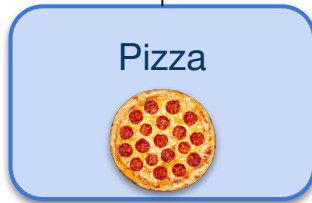
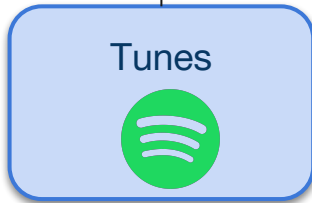
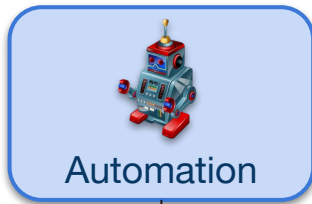


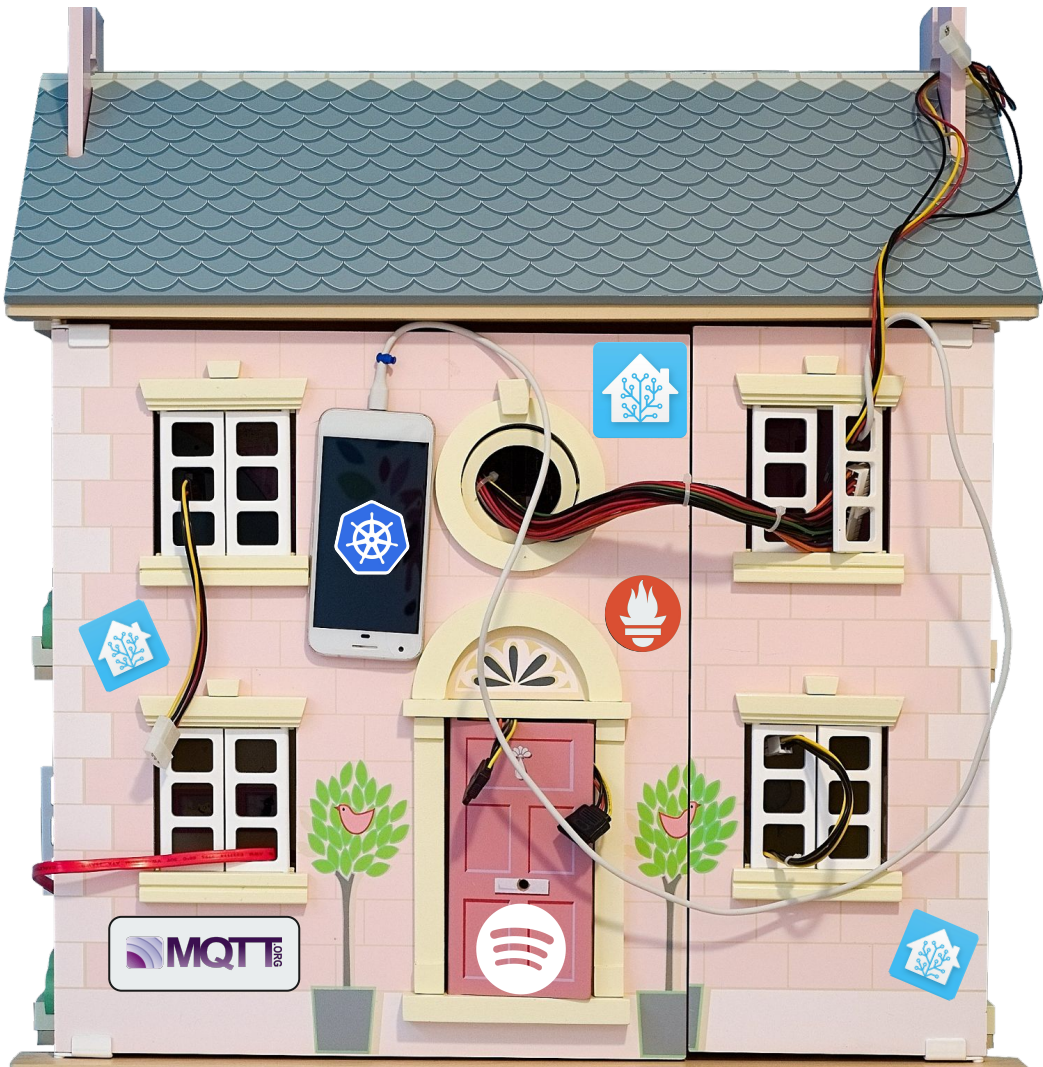
3

Microservices

+









Thank You