

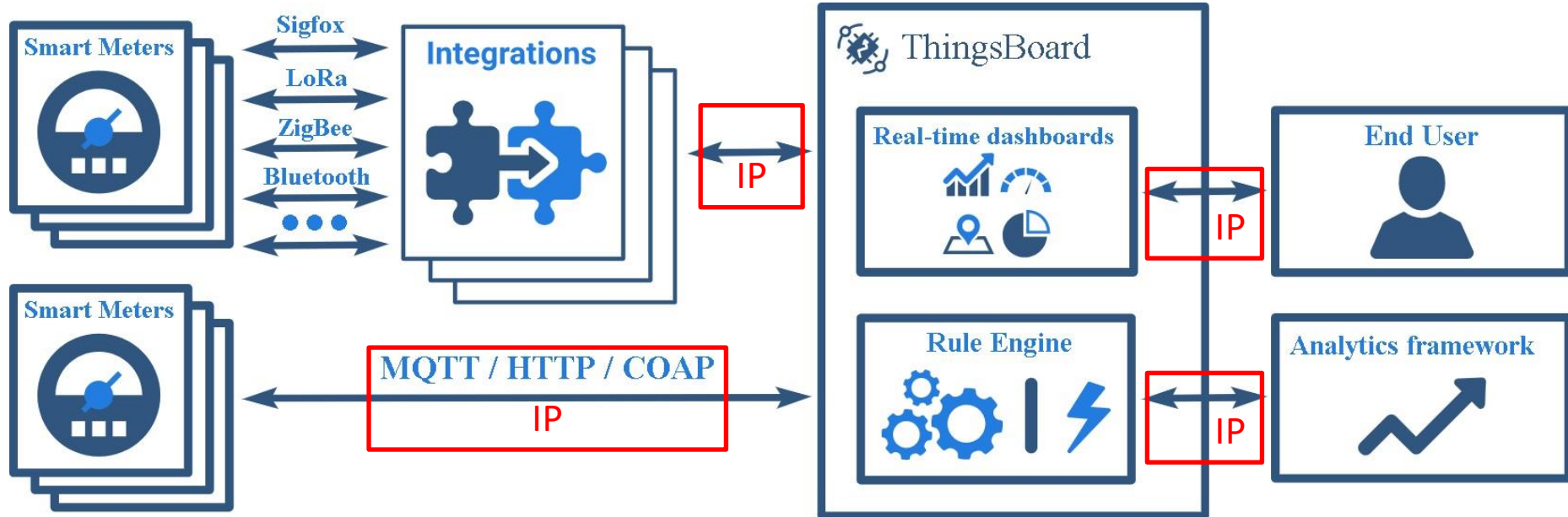


## IPv6 IoT Application Case Study

33rd TWNIC IP Open Policy Meeting  
2019/12/5, Taipei

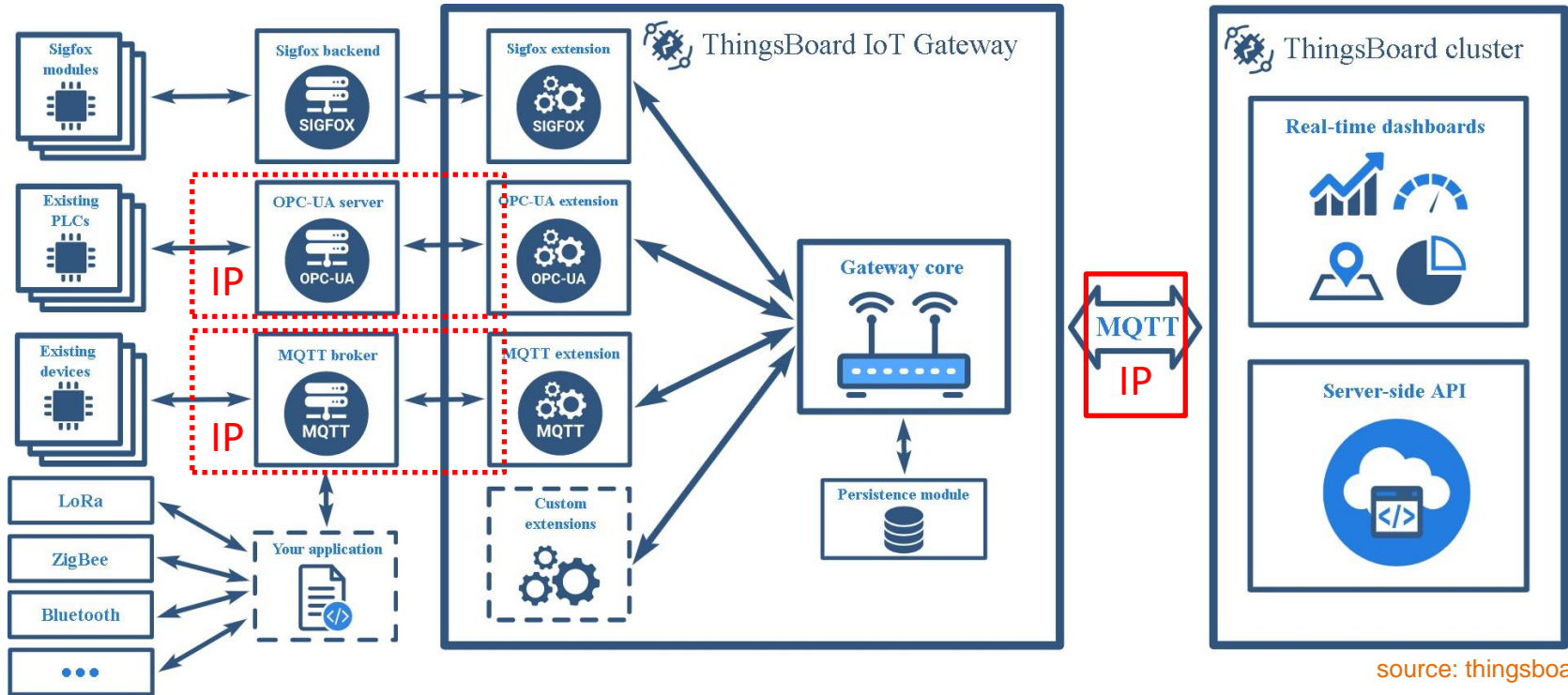
Kae Hsu (許至凱)  
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## IoT Example



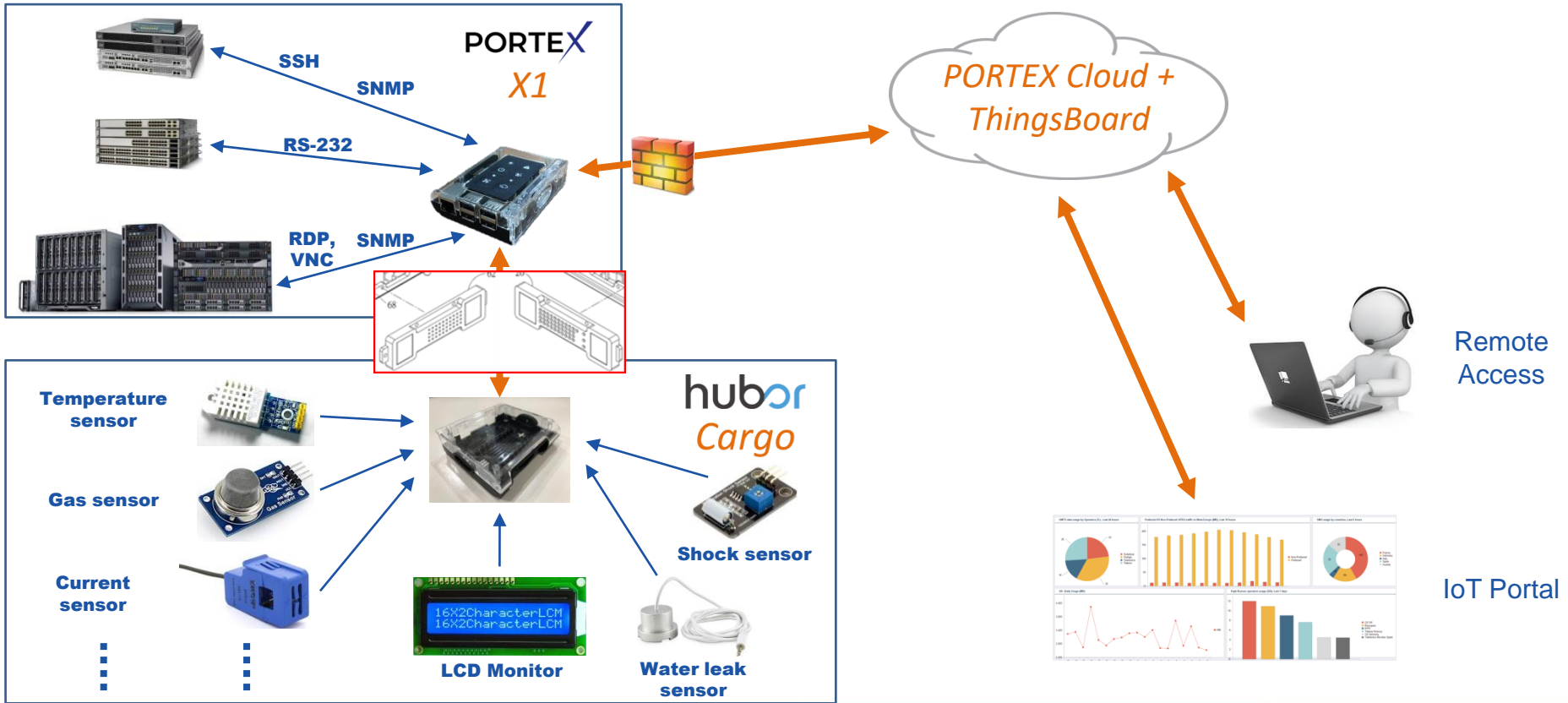
Source: thingsboard.io

## IoT Example (with IoT gateway)



source: thingsboard.io

# IoT Application – Raspberry Pi based IoT



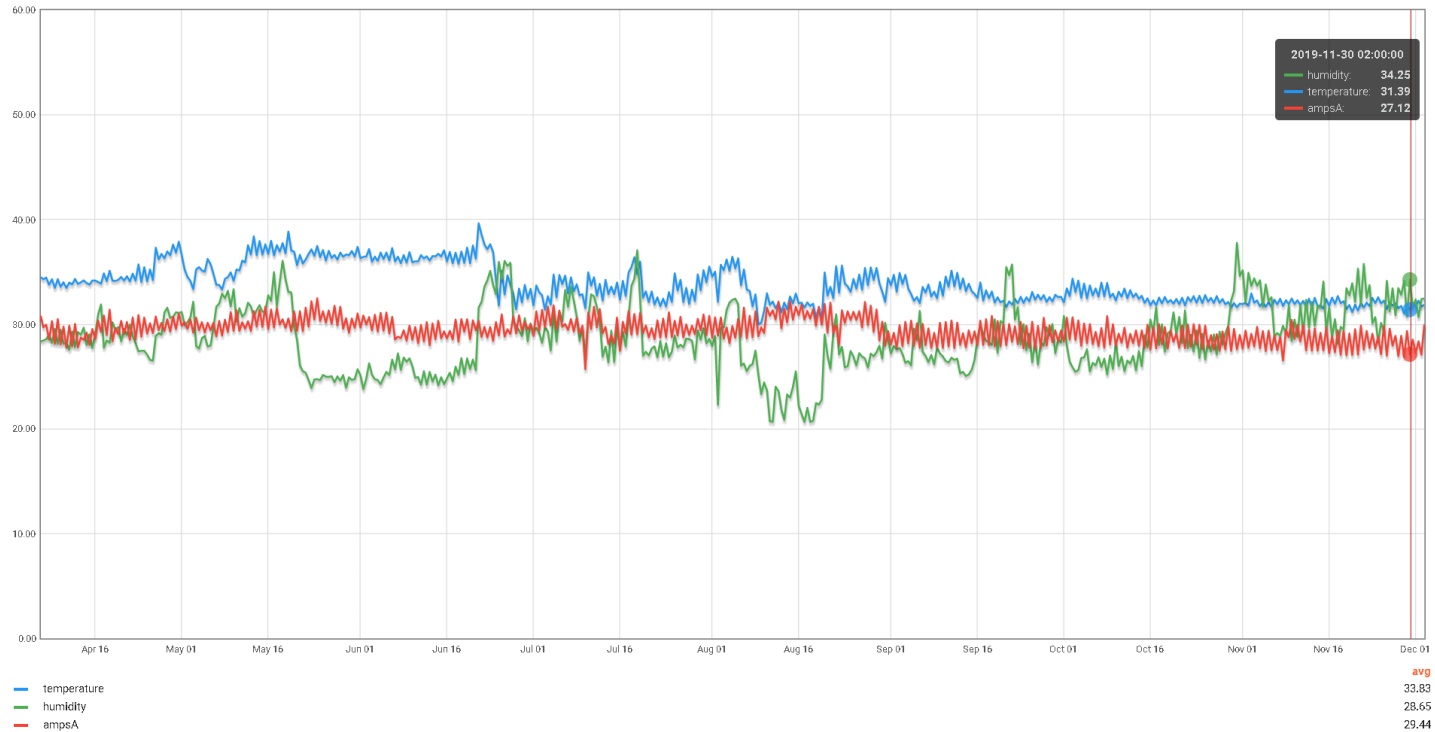
# IoT Application – Raspberry Pi based IoT



## Data Collection

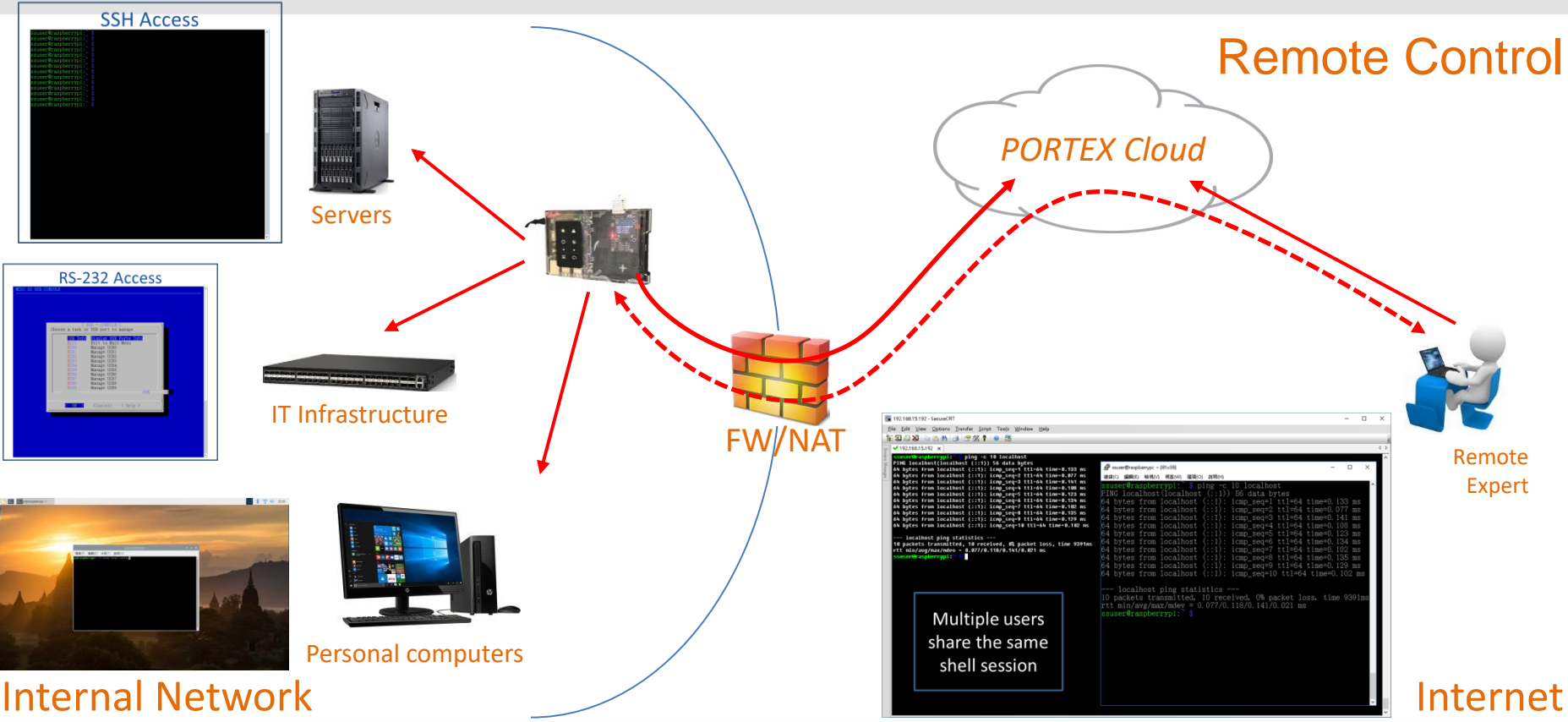
T & H & C

🕒 Realtime - last 240 days



# IoT Application – Raspberry Pi based IoT

## Remote Control



Internal Network

Internet

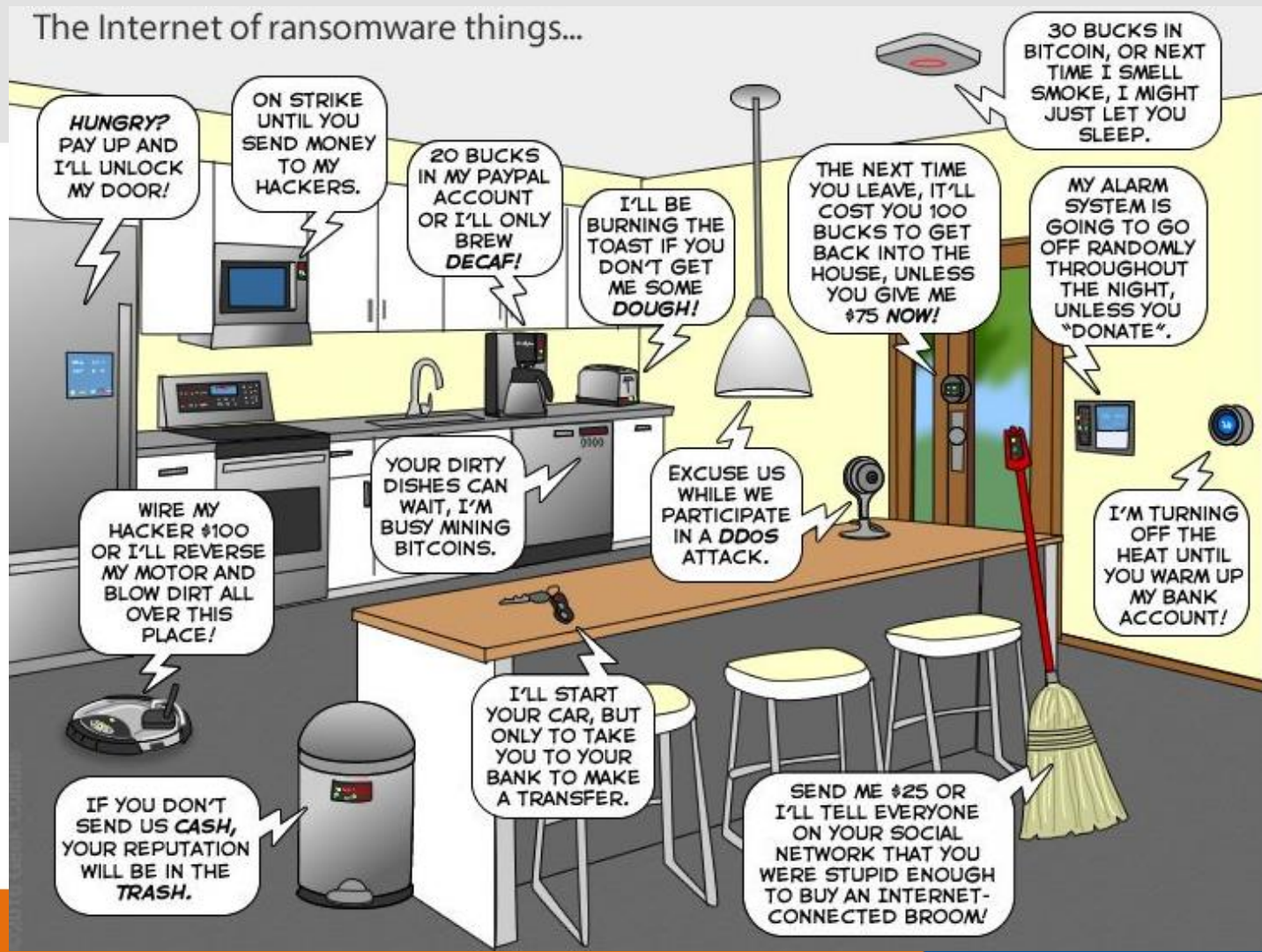
- Is IPv6 Necessary in IoT?
  - IoT Device
  - IoT Gateway
  - IoT Portal
  - User Access

- Connection is NOT the only reason
  - More efficient connection -> power saving
  - More easier configuration
  - Easy deployment in existing system
  
- Lots of Alternatives
  
- Does It Need Internet Connectivity?
  - IoT risk when connect to Internet



# Risk

## The Internet of ransomware things...



Source: joyoftech.com

**XIN**  
guard

**THANK YOU**

A row of small, white, 3D-rendered human-like figures standing on a thin horizontal line. Each figure is holding up a large, red, 3D letter. The letters spell out 'THANK YOU' in a bold, sans-serif font. The figures are positioned behind the letters, with their arms raised to support them. The entire scene is set against a plain white background with a subtle reflection on the surface below.