

Bc. Lukáš Finda

# Automatizace domácnosti

# Internet of Things



# Chytrá domácnost

- Ovládání
- Monitorování
- Automatizace



# Digitální asistenti



Amazon Echo  
Alexa

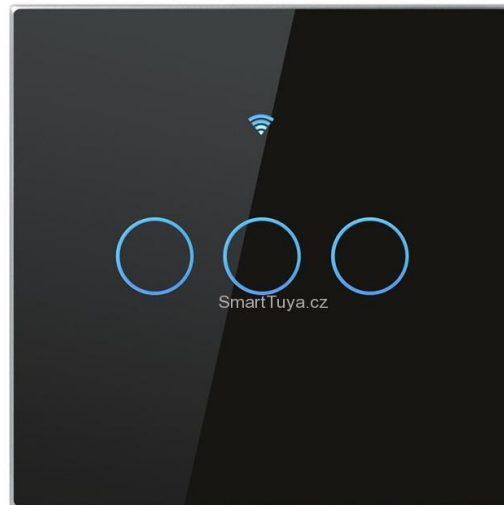


Google Nest  
Google  
Assistant



Samsung  
SmartThings

# Koncová zařízení







# Senzory

- pohybové
- měření vlhkosti
- detektory kouře
- teploty vzduchu
- ...







koncové  
zařízení

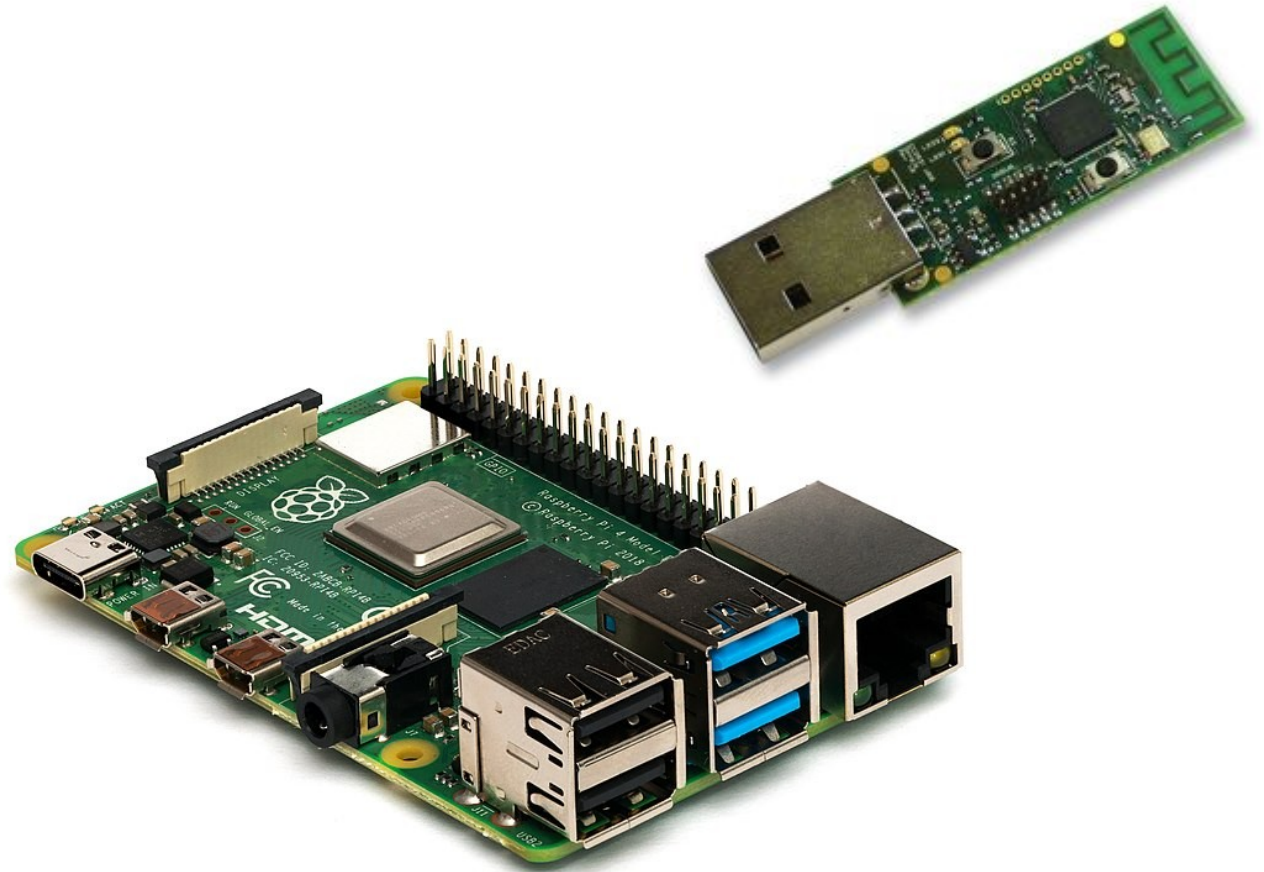


digitální asistent



senzor

# HomeAssistant



ISS Home Power Status

Shannon HOME

Nick AWAY

Shelley SHELL...

Dan HOME

Zestimate

2500 Outside Illuminan...

Sun

1195.8 Home Energy Meter Power

52 °F

90 %

NNW 2.07 mi/h

6:16:28 AM

29.72 inHg

9.03 mi

8:38:01 PM

SUN	MON	TUE	WED	THU
54°F	53°F	61°F	66°F	70°F
47°F	41°F	44°F	47°F	56°F

### Kitchen

Coffee Pot

### Outdoor Lights

Outside

### Calendar

12 Sun Furnace All day

16 Thu Shelley Birthday All day  
Shannon driving class 4 6:00 PM - 9:15 PM

22 Wed Shannon driving class 7 6:00 PM - 9:15 PM

23 Thu Last day of school All day

### Outside Weather

Outside Temperature 51.6 °F

### Dining/Living Area

Dining Room Light 1 day ago

Kids TV 12 hours ago

Kids TV 45 minutes ago On

Living Room 7 hours ago

LR Railing 7 hours ago

### Pets

Norbert Light

Gecko Temperature 79.5 °F

Frog Light Switch

### Holiday Stuff

Holiday Mode

Ohio Radar

WU WEATHER UNDERGROUND

### Living Room

66 °F

63 Heat

Control icons: Refresh, Settings, Heat, Power

### Den Area

Den

### Master Bedroom

Master Lights 9 hours ago

Master Night Stuff 9 hours ago

Master Real Temp 11 hours ago 61.3 °F

### Family Locations

Shelley From Home 50 minutes ago 23 mins

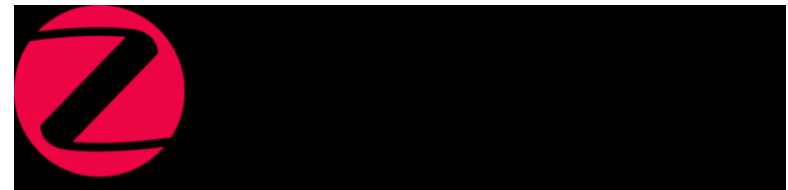
Shelley ... 55 minute

Dan From home 1 day ago 1 min

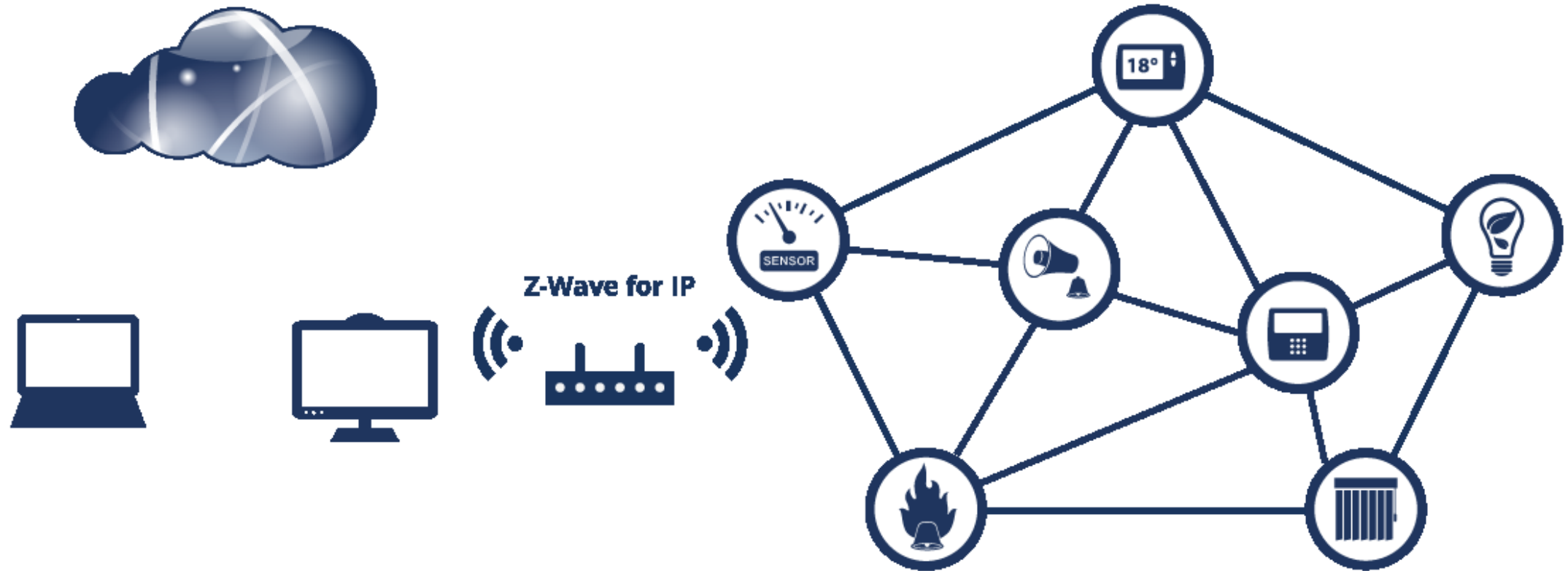
Dan Lo... 7 hours ago

# Komunikační protokoly

- Wi-Fi
- Z-Wave
- ZigBee



# Mesh sít'



# Automatizace



# Zdroje

- <http://www.odbornecasopisy.cz/en/post/system-brings-deep-learning-to-internet-of-things-devices--5648>
- <https://www.epet.cz/inteligentni-domacnost-v-praxi-predstavujeme-smart-home-a-smart-grid/>
- <https://www.theverge.com/2020/10/13/21514030/microsoft-xcloud-samsung-smart-fridge-doom-enternal-xbox-games-android>
- <https://stevesmarthomeguide.com/guide-home-automation/>
- [https://www.reddit.com/r/homeassistant/comments/bnvz8t/im\\_finally\\_happy\\_with\\_my\\_ha\\_dashboard/](https://www.reddit.com/r/homeassistant/comments/bnvz8t/im_finally_happy_with_my_ha_dashboard/)
- <https://www.alza.cz/slovník/z-wave-art17515.htm>
- <https://www.youtube.com/watch?v=RLkASaFQPkc>