

Simple Home Assistant Server Can Make Your IT Life Better Mike Nelson **Technology Evangelist Pure Storage**

Level: Beginner

Session Survey

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Why Home Assistant?

- Vendor independence
- Multiple installation options
- Free software (hardware required)
- 4k+ integrations/blueprints/helpers
- Multiple protocols
- Community driven and supported
- Local and/or remote management



Let's see some telemetry



Hardware & Software

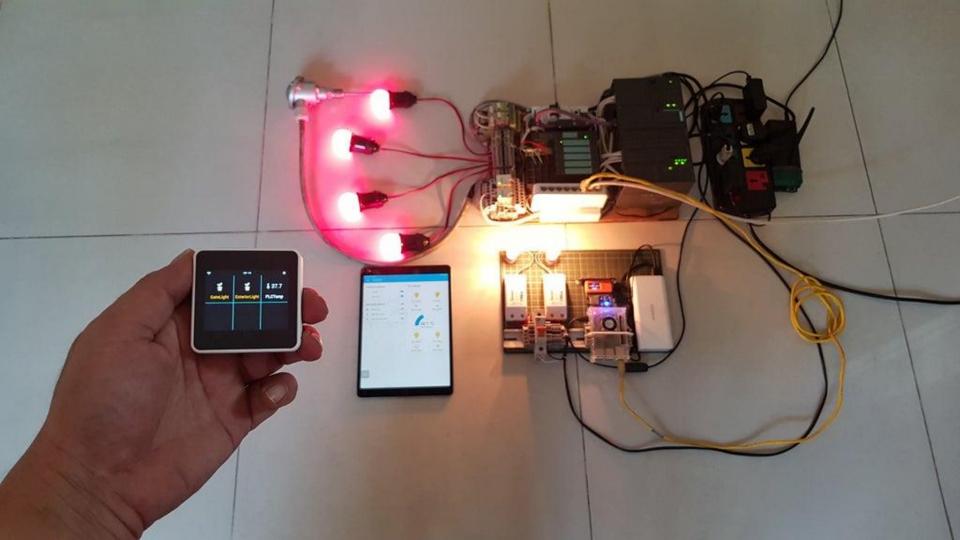
- home-assistant.io
- Hardware solutions:
 - Raspberry Pi
 - Green (pre-configured)
 - Yellow (needs config)
 - VM, Docker, K8s
 - Old laptops, thin clients

The brief deets on HASS

- Paulus Schoutsen in September 2013.
- It's python running on Home Assistant Operating System (aka. Linux)
- It's HA Core + HA Supervisor
- It's running Docker
- It's brains are SQLite
- History is kept for 10 days
- It can be viewed/managed remotely via Nabu Casa (\$) or VPN







22 Oct 2022

16:3610



Calendar



Chores



System





16 °C å 77 %

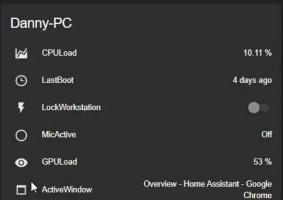
7:00

19.2 °C

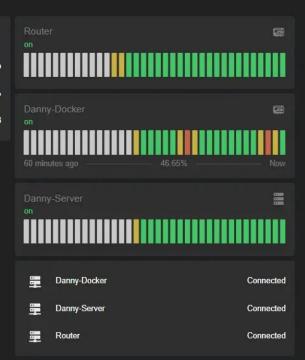
Energy



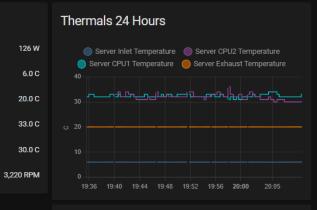


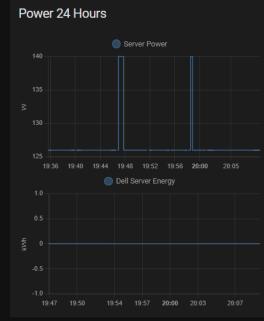






Dell Server Server Power Server Inlet Temperature Server Exhaust Temperature Server CPU1 Temperature Server CPU2 Temperature Server Fans Speed Avg





Config files

```
automation:
- alias: Turn on Entry Lights When Motion Detected
  trigger:
   - platform: state
    entity_id: binary_sensor.foyer_motion
    to: 'on'
  condition:
   - condition: state
    entity_id: sun.sun
    state: 'below_horizon'
  action:
   - service: light.turn_on
    target:
     entity_id: light.foyer
```

Config files

```
script:
 optimize_hvac:
  alias: Optimize HVAC
  sequence:
   - condition: state
    entity_id: group.family
    state: 'not_home'
   - service: climate.set_temperature
    target:
     entity id: climate.thermostat
    data:
     temperature: 64
   - delay: "02:00:00"
   - condition: state
    entity id: group.family
    state: 'home'
   - service: climate.set_temperature
    target:
     entity id: climate.thermostat
    data:
     temperature: 72
```

Selling it to the SpHouse

It is the future!

It is critical for home/people/thing management & control

Think "resale value"

Everything you need is on one device Friends will be jealous

Selling it to the Boss

It is critical for datacenter/people/thing management & control

No WiFi, just Zigbee and Z-Wave

Co-workers will love it!

Doesn't all I.T. want to be shadow-security?

How will this help my life??

- Make tasks & routines easier
- Simplify what you do to accomplish X, & Y, & Z
- Explore new ways of automation
- Presence monitoring & triggers are way cool
- Creative and cool interfaces
- Tinkering

How will this help me in I.T.??

- Automations, monitoring, & alerting of
 - Datacenter infrastructure
 - Desktops, servers, apps
 - Things (IoT)
 - People
- Impress your boss, peers, & the Bob's



The Process

- Plan your plan
- Install
- Config the basics
- Integrations & blueprints
- Dashboards → Last

Let's see a couple of demos

https://home-assistant.io/integrations/demo/

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