

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

Level: Beginner

Session Survey

- Your feedback is very important to us
- Please take a moment to complete the session survey found in the mobile app
- Use the QR code or search for "Converge360 Events" in your app store
- Find this session on the Agenda tab
- Click "Session Evaluation"
- Thank you!



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

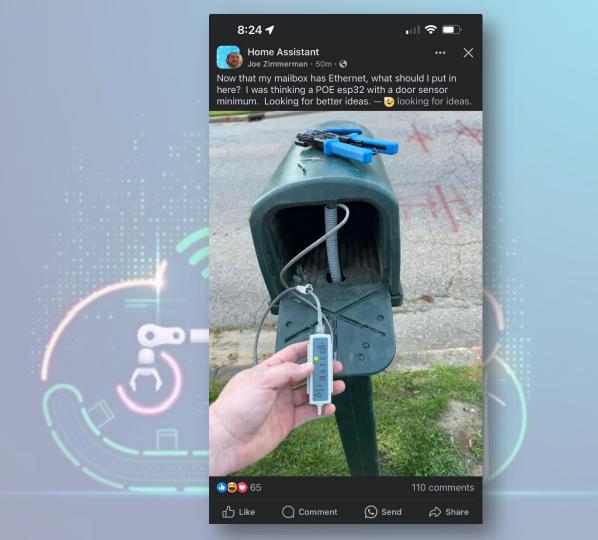


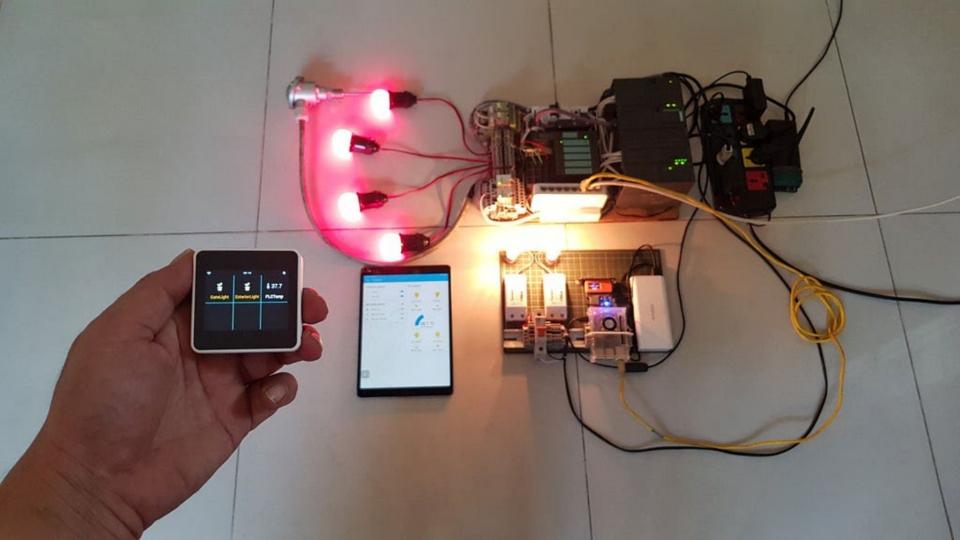
Hardware & Software

- 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



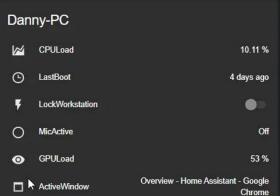
System

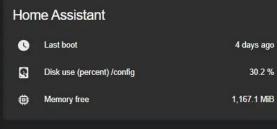


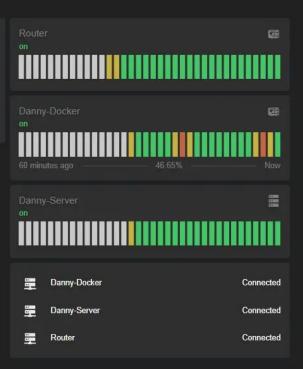




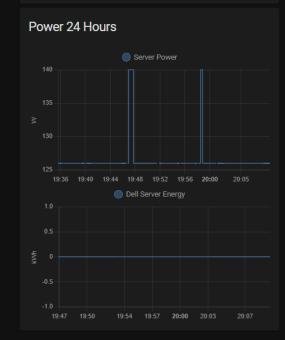








Dell Server Thermals 24 Hours Server Power 126 W Server Inlet Temperature Server CPU2 Temperature Server CPU1 Temperature Server Exhaust Temperature Server Inlet Temperature 6.0 C Server Exhaust Temperature 20.0 C Server CPU1 Temperature 33.0 C Server CPU2 Temperature 30.0 C Server Fans Speed Avg 3,220 RPM



19:36 19:40 19:44 19:48 19:52 19:56 20:00 20:05

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/



New Stuff

- Year of the voice
 - Local voice control, keep everything in the home
 - Google, Alexa, Siri control still available
- Smart watch, Carplay, Android Auto improvements
 - Complications (widgets)
- QNAP/Backup to network storage
- Media consumption with network storage devices
- Drag n' Drop UI!
 - Need to basically start over on your dashboard
- Improvements to tiles
- Groups, Organization, Filtering improvements

Session Survey

- Your feedback is very important to us
- Please take a moment to complete the session survey found in the mobile app
- Use the QR code or search for "Converge360 Events" in your app store
- Find this session on the Agenda tab
- Click "Session Evaluation"
- Thank you!

