

Monitoring Stack — InfluxDB, Grafana, AdGuard, NUT

Overview

Long-term monitoring uses the **InfluxDB + Grafana** stack for time-series storage and visualization, complemented by **AdGuard Home** for DNS query analytics and **NUT** for UPS status.

InfluxDB

Add-on: a0d7b954_influxdb v5.0.2 | **State:** running

InfluxDB stores long-term time-series sensor data from Home Assistant. HA's built-in recorder uses SQLite/PostgreSQL for short-term history; InfluxDB provides the long-term archive.

Use cases:

- Energy consumption history (Emporia Vue circuits)
- Climate and temperature trends (ecobee, Aqara, Govee sensors)
- Motion event frequency
- UPS load and battery history

Configuration: InfluxDB integration is configured via HA's `configuration.yaml` or through the add-on's web UI.

Grafana

Add-on: a0d7b954_grafana v12.1.0 | **State:** running

Grafana provides visualization dashboards on top of InfluxDB data.

Typical dashboards:

- Whole-home energy (Cornell Vue — `sensor.cornell_vue_energy_today`)
- Per-circuit power (kitchen appliances, HVAC, floors)
- Temperature/humidity trends per room
- AdGuard DNS query statistics
- UPS status over time

“ Grafana is accessible on the HA host at port 3000 (or configured reverse proxy path). Not directly integrated into HA Lovelace.

AdGuard Home

Add-on: a0d7b954_adguard v6.2.0 | **Integration:** adguard | **Area:** Office

Network-wide DNS-based ad and tracker blocking. All LAN DNS queries are routed through AdGuard.

HA entities:

- `sensor.adguard_home_dns_queries_blocked_ratio` — shows % of queries blocked
- Protection, filtering, parental control, safe search switches

Dashboard: AdGuard Home has its own web UI accessible on the LAN.

Network UPS Tools (NUT)

Add-on: a0d7b954_nut v0.18.0 | **Integration:** nut | **UPS:** CPS CP1500AVRLCDa | **Area:** Media Room

Monitors the APC-compatible CPS UPS protecting the Media Room AV equipment.

Key entities:

Entity	Notes
<code>sensor.media_room_ups_load</code>	% of UPS capacity in use
<code>sensor.media_room_ups_battery_charge</code>	Battery charge %

Entity	Notes
sensor.media_room_ups_battery_runtime	Estimated runtime on battery
sensor.media_room_ups_input_voltage	AC input voltage
sensor.media_room_ups_output_voltage	UPS output voltage
sensor.media_room_ups_status	Online / On Battery / Bypass

Automation: UPS Power Outage Notification triggers when status → On Battery.

Uptime & SpeedTest

Integration	Entity	Notes
Uptime	sensor.uptime	HA instance continuous uptime
SpeedTest	sensor.speedtest_download / sensor.speedtest_upload	Periodic internet speed tests

Both are assigned to the Office area.

Notes / Gotchas

- InfluxDB must be configured in HA settings to forward sensor data — confirm the influxdb: component is active in configuration.yaml.
- Grafana dashboards are independent of HA Lovelace — they require a separate login (unless SSO is configured).
- The CPS UPS shows as "CP1500AVRLCDa" in NUT — this is compatible with most APC-format NUT drivers.

Last Updated

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