Infrastructure

Add-ons Overview

Overview

26 add-ons are installed via the Home Assistant Supervisor. 23 are currently running; 3 are stopped. 1 has an available update (HA MCP Server).

State	Count
Running	23
Stopped	3
Updates available	1

Add-ons by Category

Core HA Add-ons (Official)

Add-on	Version	State	Purpose
Matter Server	9.0.2	running	Matter/Thread protocol server
Samba share	12.6.1	running	SMB/CIFS share for config/backup access
File editor	6.0.0	running	Browser-based YAML config editor
Speech-to-Phrase	1.4.3	running	Fast local STT for HA Assist
Whisper	3.2.0	running	Neural local STT (Faster Whisper)
Piper	2.2.2	running	Local neural TTS
openWakeWord	2.1.0	running	Local wake-word detection
Mosquitto broker	7.1.0	running	Local MQTT broker
VLC	1.0.0	running	VLC media player endpoint

Add-on	Version	State	Purpose
RPC Shutdown	3.0	running	Remote Windows PC shutdown
Get HACS	1.3.1	**stopped**	One-time HACS installer (safe to leave stopped)
CEC Scanner	4.0	**stopped**	HDMI CEC device discovery (used once)

Community Add-ons (a0d7b954)

Add-on	Version	State	Purpose
AdGuard Home	6.2.0	running	Network-wide DNS ad/tracker blocking
Advanced SSH & Web Terminal	24.0.1	running	SSH access + web terminal
Tailscale	0.28.1	running	Zero-config VPN (WireGuard mesh)
Network UPS Tools (NUT)	0.18.0	running	UPS monitoring (CPS CP1500AVRLCD)
chrony	6.0.1	running	Local NTP server for cameras
Grafana	12.1.0	running	Metrics visualization dashboards
InfluxDB	5.0.2	running	Time-series database for HA sensor data
Log Viewer	0.17.1	**stopped**	Browser-based log viewer

Third-Party / HACS Repository Add-ons

Add-on	Version	State	Purpose
Music Assistant	2.9.3	running	Multi-room music server
eufy-security-ws	3.0.1	running	Local Eufy camera WebSocket bridge
YT Music PO Token Generator	1.3.1	running	YouTube Music auth tokens for MA
Zigbee2MQTT	2.12.0-1	running	Zigbee coordinator + MQTT bridge

Add-on	Version	State	Purpose
Frigate	0.17.1	running	Local NVR with object detection
Home Assistant MCP Server	7.8.1	running	AI assistant MCP integration (**update available**)

Stopped Add-ons

Add-on	Reason Stopped
Get HACS	One-time installer — safe to leave stopped after HACS is installed
CEC Scanner	On-demand tool — run when scanning for HDMI-CEC devices
Log Viewer	On-demand debugging tool

Update Available

Add-on	Current	Notes
Home Assistant MCP Server	7.8.1	Update available — check changelog before upgrading

Key Dependencies

```
Zigbee2MQTT → depends on → Mosquitto broker
Frigate → depends on → Mosquitto broker (for events)
Music Assistant → depends on → (network, streaming services)
eufy-security-ws → depends on → Eufy cloud account
Whisper/Piper/Speech-to-Phrase/openWakeWord → depends on → Wyoming protocol (HA built-in)
NUT → exposes → UPS data to HA via nut integration
AdGuard Home → exposes → DNS stats to HA via adguard integration
```

Last Updated

2026-06-24

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
`sensor.media_room_ups_load`	% of UPS capacity in use
`sensor.media_room_ups_battery_charge`	Battery charge %
`sensor.media_room_ups_battery_runtime`	Estimated runtime on battery

Entity	Notes
`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

2026-06-24

Voice Pipeline

Overview

The home runs a fully local, cloud-independent voice pipeline using HA's Assist framework. The pipeline is anchored by a **Home Assistant Voice PE** device in the Bedroom and composed of four add-on components. An Ollama LLM provides conversational AI beyond basic HA commands.

Pipeline Components

1. Wake Word — openWakeWord

Property	Value
Add-on	core_openwakeword v2.1.0
Protocol	Wyoming
Entity	`wake_word.openwakeword`
Purpose	Passively listens for wake phrase on the HA Voice PE microphone

2. Speech-to-Text

Two local STT options:

Option	Add-on	Version	Best For
Speech-to-Phrase	core_speech-to-phrase	1.4.3	Fast home control commands
Whisper	core_whisper	3.2.0	Free-form speech, better accuracy
HA Cloud	—	—	Fallback cloud STT

Recommendation: Use Speech-to-Phrase as primary for HA commands — it's significantly faster than Whisper for intent-matched phrases.

3. Conversation / Intent Processing

Option	Entity	Notes
Home Assistant	`conversation.home_assistant`	Built-in intent matching for HA commands
Ollama	`conversation.ollama_conversation`	Local LLM (qwen3:4b-instruct at 192.168.1.85:11434)

4. Text-to-Speech

Option	Add-on	Version	Notes
Piper	core_piper	2.2.2	Local neural TTS (offline)
Google Translate	—	—	Cloud TTS (requires internet)
HA Cloud	—	—	Nabu Casa cloud TTS

Hardware — HA Voice PE

Property	Value
Device	Home Assistant Voice 0919e8
Model	Home Assistant Voice PE
Manufacturer	Nabu Casa
Firmware	ESPHome 2026.3.2
Area	Bedroom

The Voice PE connects to HA via the ESPHome integration over local LAN.

Controls:

- Physical button on device
- LED ring (color/pattern indicates pipeline state)
- Mute switch
- Wake sound toggle

- Pipeline selector (`select.home_assistant_voice_0919e8_assistant_2`)

Conversation Pipelines

HA supports multiple named pipelines. The Voice PE's `assistant_2` select entity allows switching between pipelines at runtime.

Typical pipelines:

1. **Default** — Speech-to-Phrase → Home Assistant Assist → Piper
2. **LLM** — Whisper → Ollama → Piper
3. **Cloud** — HA Cloud STT → HA Cloud TTS

Announcement Targets

Beyond the Voice PE, TTS announcements can be pushed to any `media_player` entity. Key announcement targets:

Target	Entity	Notes
HA Voice PE	`media_player.home_assistant_voice_0919e8`	Primary
Bedroom Echo Show 5	`media_player.bedroom`	Alexa
VLC	`media_player.vlc_telnet`	Local fallback
Everywhere (MA group)	`media_player.everywhere`	All speakers

Notes / Gotchas

- The Ollama server runs on a separate machine at `192.168.1.85:11434`. If that machine is off, the Ollama conversation agent will be unavailable — HA Assist built-in handles fallback.
- Whisper model size affects accuracy vs. speed. Check the Whisper add-on configuration for the selected model (tiny/base/small/medium).
- Speech-to-Phrase requires a custom vocabulary configuration to recognize non-standard commands — check add-on settings for custom phrase lists.

- The Voice PE LED ring color indicates pipeline state: idle (off/dim), listening (blue), processing (yellow), error (red) — exact colors depend on ESPHome firmware version.

Last Updated

2026-06-24