

Home Assistant Platform & Infrastructure

Overview

The system runs **Home Assistant OS (HAOS)** — the recommended production deployment method which provides the full Supervisor + add-on ecosystem, OTA OS updates, and snapshot backups. The host is not directly accessible via SSH by default; the Advanced SSH & Web Terminal add-on provides access.

Software Stack

Component	Version
Home Assistant Core	2026.6.4
Home Assistant OS	18.0
Home Assistant Supervisor	2026.06.2
Zigbee2MQTT	2.12.0-1
Music Assistant	2.9.3
Frigate NVR	0.17.1
Grafana	12.1.0
InfluxDB	5.0.2
Mosquitto MQTT Broker	7.1.0
AdGuard Home	6.2.0 (add-on)

Mobile Clients

Device	Model	OS	Integration
Iceheart	iPhone 17 Pro (iPhone17,1)	iOS 26.5	HA iOS / mobile_app
Bacta	iPad Pro (iPad16,2)	iPadOS 26.5	mobile_app
Krytos	iPad (iPad11,1)	iPadOS 26.3	mobile_app

Add-on Ecosystem

26 add-ons installed, 23 currently running. See [addons-overview.md](#) for the full inventory.

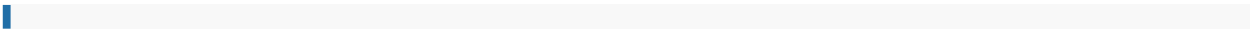
Key add-ons by category:

Category	Add-ons
Zigbee	Zigbee2MQTT
NVR / Cameras	Frigate
Voice Pipeline	Whisper, Piper, Speech-to-Phrase, openWakeWord
Media	Music Assistant, VLC, YT Music PO Token Generator
Security	Eufy-security-ws, Tailscale
Monitoring	Grafana, InfluxDB, Log Viewer
Networking	Mosquitto broker, AdGuard Home, chrony
Utilities	Advanced SSH & Web Terminal, File editor, Samba share
Matter	Matter Server
HA MCP	Home Assistant MCP Server 7.8.1

Zigbee Setup

Two Zigbee coordinators are in use:

Coordinator	Driver	Firmware	Status
HA Connect ZBT-2 (via Zigbee2MQTT)	ZBT-2 (EmberZNet 7.5.1.0)	2.12.0	Active
HA Connect ZBT-2 (via ZHA)	Same hardware	—	Disabled by user



Both ZHA and Zigbee2MQTT are configured, but ZHA is disabled. All Zigbee traffic flows through Zigbee2MQTT via MQTT/Mosquitto.

Matter Setup

Matter is handled by the **Matter Server add-on** (v9.0.2). The Aqara Hub M2 acts as a Thread/Matter border router, bridging multiple Aqara devices (water leak sensors, motion sensors, smart locks, wireless switches, temp/humidity sensors) into HA via Matter.

A second Matter hub, the **Aqara Camera Hub G3**, also bridges devices.

Voice Pipeline

See voice-pipeline.md for full details.

Summary:

- Wake word: openWakeWord
- STT: Whisper (local) + Speech-to-Phrase (local) + HA Cloud
- TTS: Piper (local) + Google Translate + HA Cloud
- LLM: Ollama (local — qwen3:4b-instruct at 192.168.1.85:11434)
- Hardware: Home Assistant Voice PE (ESPHome 2026.3.2) in Bedroom

Remote Access

- **Tailscale** VPN (add-on v0.28.1) — zero-config mesh VPN
- **Home Assistant Cloud** (Nabu Casa) — remote UI, webhooks, voice relay

Backup & Monitoring

- **Backup add-on** — automatic scheduled backups
- **Samba share** — exposes config/backup folders to local network
- **InfluxDB + Grafana** — long-term metrics storage and dashboarding
- **Network UPS Tools (NUT)** — UPS monitoring (CPS CP1500AVRLCD in Media Room)

Networking Infrastructure

- **AdGuard Home** — network-wide DNS-based ad/tracker blocking (v0.107.74)
- **Mosquitto broker** — MQTT broker for Zigbee2MQTT and ESPHome
- **chrony** — local NTP server for IP cameras
- **DLNA** — Lusankya NAS (3× entries) + Giga Hub + HDHomeRun DMS

Last Updated

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