

1. Lock down device/settings APIs and tenant data.

Require auth for GET /api/devices and /api/settings and store per-user records.

Add user_id ownership fields so one tenant cannot read another tenant's devices.

2. Enforce strong secret and session management.

Fail fast if JWT_SECRET is unset, rotate keys, and keep secrets out of source control.

Always issue Secure SameSite=Strict cookies and shorten access token TTLs.

3. Enable CSRF protection and tighten security headers.

Turn CSRF on by default, validate X-CSRF-Token, and drop 'unsafe-inline'/'eval' in CSP.

4. Add adaptive login rate limiting and audit logging.

Layer IP+account lockouts on /auth/login and track auth/audit events for forensics.

5. Require TLS plus authenticated MQTT transport.

Move defaults to https/wss, enforce broker cert validation, and require per-device creds.

6. Protect data at rest and keep the SQLite DB out of the repo.

Store smarthome.db outside source control, add encryption/backup, and secure .env files.