

2. Security Principles

2.1 Defense in Depth Overview

TheDen Home Network follows a layered defense model, with multiple safeguards that provide independent protection. Layers include OPNsense, VLAN segmentation, encrypted DNS (DoT), and Suricata IPS.

2.2 Zero Trust and Least Privilege

All devices are treated as untrusted by default. Access is restricted to essential communications only, using a default-deny policy between VLANs.

Administrative access requires authenticated HTTPS and IoT devices are limited to U.S.-based connections only.

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