

Chapter Introduction

Overview

This chapter documents the foundational infrastructure layer that all other services depend on. These nine services form the backbone of the Centerpoint stack — handling reverse proxying, TLS, identity, DNS, threat detection, logging, and observability.

Services in This Chapter

Service	Container(s)	Purpose
Traefik v3	traefik	Reverse proxy and TLS termination
Step-CA	step-ca	Internal ACME certificate authority
Portainer EE	portainer	Docker container management UI
Authentik	authentik-server, authentik-worker, authentik-postgresql, authentik-geoip	SSO / identity provider
AdGuard Home	adguardhome	LAN DNS resolver and ad blocking
CrowdSec	crowdsec, crowdsec-bouncer-traefik	Collaborative threat detection and blocking
Dozzle	dozzle	Real-time container log viewer
Uptime-Kuma	uptime-kuma	Service uptime and endpoint monitoring
Homepage	homepage	Homelab dashboard

Dependency Order

When starting from scratch, services must come up in this order:

1. **AdGuard Home** — *.home.local DNS must resolve before anything can find its neighbours

2. **Step-CA** — required for Traefik to issue internal certificates on first boot
 3. **Traefik** — all named HTTPS routes depend on it
 4. **Authentik** (PostgreSQL → Server → Worker) — required before any externally-accessible service that enforces SSO
 5. **CrowdSec** → **CrowdSec Bouncer** — bouncer cannot connect to LAPI until CrowdSec is healthy
 6. All other infrastructure services (Portainer, Dozzle, Uptime-Kuma, Homepage) can start in any order
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