

CrowdSec

Overview

CrowdSec is a collaborative intrusion detection and prevention system integrated directly into Traefik. It analyses Traefik access logs in real time, detects attack patterns (brute force, CVE exploitation, bad bots, etc.), and instructs Traefik to block flagged IPs before they reach any backend service.

The stack consists of two containers:

- `crowdsec` — the Security Engine (LAPI + agent). Ingests logs, applies detection scenarios, maintains a decision list, and shares signals with the CrowdSec community.
- `crowdsec-bouncer-traefik` — the Traefik bouncer. Traefik forwards every incoming request to it via ForwardAuth; the bouncer checks the IP against CrowdSec's local decision database and returns allow/deny.

Access

Neither CrowdSec container has a web UI. Management is via the `cscli` CLI inside the `crowdsec` container:

```
docker exec -it crowdsec cscli decisions list
docker exec -it crowdsec cscli alerts list
docker exec -it crowdsec cscli metrics
```

Configuration

Compose project: `crowdsec` (managed via Portainer)

Containers

crowdsec — Security Engine

Image: crowdsecurity/crowdsec:latest

Property	Value
Network	traefik-net
Restart policy	unless-stopped

Key environment variables:

Variable	Value / Notes
GID	1000
COLLECTIONS	crowdsecurity/traefik crowdsecurity/http-cve crowdsecurity/whitelist-good-actors
BOUNCER_KEY_TRAEFIK	REDACTED — shared secret used by the bouncer to authenticate with LAPI

Collections installed:

Collection	Purpose
crowdsecurity/traefik	Detects attack patterns in Traefik access logs
crowdsecurity/http-cve	Detects exploitation of known HTTP CVEs
crowdsecurity/whitelist-good-actors	Whitelists known-good crawlers and services

crowdsec-bouncer-traefik — Traefik Bouncer

Image: fbonalair/traefik-crowdsec-bouncer:latest

Property	Value
Network	traefik-net
Internal port	8080 (ForwardAuth endpoint)

Key environment variables:

Variable	Value / Notes
GIN_MODE	release
CROWDSEC_AGENT_HOST	crowdsec:8080 — CrowdSec LAPI endpoint
CROWDSEC_BOUNCER_API_KEY	REDACTED — must match BOUNCER_KEY_TRAEFIK

How the Bouncer Integrates with Traefik

The middleware is defined in `/home/jeeves/docker/traefik/config/crowdsec.yml`:

```
http:
  middlewares:
    crowdsec-bouncer:
      forwardAuth:
        address: http://crowdsec-bouncer-traefik:8080/api/v1/forwardAuth
        trustForwardHeader: true
```

This middleware is referenced on external Traefik routes as `crowdsec-bouncer@file`.

Log Ingestion

CrowdSec reads Traefik access logs from two bind-mounted paths:

Host Path	Container Path	Notes
<code>/var/log/traefik</code>	<code>/var/log/traefik:ro</code>	Primary log location
<code>/home/jeeves/docker/traefik/logs</code>	<code>/logs/traefik:ro</code>	Secondary / rotated logs

The `acquis.yaml` config file at `/home/jeeves/docker/crowdsec/config/acquis.yaml` defines which log files to tail and in what format.

Volumes / Bind Mounts

Host Path	Container Path	Purpose
<code>/home/jeeves/docker/crowdsec/data</code>	<code>/var/lib/crowdsec/data</code>	Decision database and GeoIP data
<code>/home/jeeves/docker/crowdsec/config</code>	<code>/etc/crowdsec</code>	Scenarios, parsers, config
<code>/var/log/traefik</code>	<code>/var/log/traefik:ro</code>	Traefik access log (read-only)
<code>/home/jeeves/docker/traefik/logs</code>	<code>/logs/traefik:ro</code>	Traefik rotated logs (read-only)

Dependencies

- Traefik (must be running and writing access logs for CrowdSec to process)
- `crowdsec` LAPI must be healthy before `crowdsec-bouncer-traefik` starts
- Internet access required for CrowdSec community hub sync (pulling updated block lists)

Notes / Gotchas

- The `BOUNCER_KEY_TRAEFIK` / `CROWDSEC_BOUNCER_API_KEY` pair must match exactly. If mismatched, the bouncer will fail to authenticate with LAPI and Traefik will receive a 200 (passthrough) response from ForwardAuth — **effectively disabling the bouncer silently**.
- CrowdSec community sharing (`online_api_credentials.yaml`) requires an account at `app.crowdsec.net`. The credentials file is stored at `/home/jeeves/docker/crowdsec/config/online_api_credentials.yaml`.
- `crowdsec-bouncer@file` middleware must be applied to external routes only. Applying it to internal (`*.home.local`) routes will check LAN IPs against the community block list, which may block legitimate traffic unexpectedly.
- Manually ban an IP with:

```
docker exec -it crowdsec cscli decisions add --ip <IP> --duration 24h --reason "manual"
```

- Remove a ban:

```
docker exec -it crowdsec cscli decisions delete --ip <IP>
```

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