

[zurück](#) # CrowdSec Sync & Metabase Dashboard

Dieses Setup synchronisiert automatisch alle CrowdSec-Alerts (inkl. Entscheidungen) in eine eigene MySQL-Datenbank und visualisiert sie über Metabase.

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Komponenten

- **CrowdSec** - erkennt Bedrohungen & verwaltet Entscheidungen - **MySQL/MariaDB** - speichert Alerts & Decisions - **Python-Script** - sync.py überträgt Daten via CrowdSec Local API - **Docker** - orchestriert `<DB_USER>-syncer` und Metabase - **Metabase** - Web-Dashboard zur Analyse

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Verzeichnisstruktur

```
`` /opt/docker/<DB_USER>-syncer/ |— app/ | — sync.py |— Dockerfile |— docker-compose.yml
``
```

—

Dockerfile

```
FROM python:3.11-slim

WORKDIR /app
COPY ./app /app

RUN pip install --no-cache-dir requests mysql-connector-python schedule

CMD ["python", "sync.py"]
```

—

docker-compose.yml

```
``yaml version: „3.8“
```

services:

```
<DB_USER>-syncer:
  build: .
  container_name: <DB_USER>-syncer
  restart: unless-stopped
  networks:
    - docker_backend
  depends_on:
    - <DB_USER>
```

networks:

```
docker_backend:
  external: true
```

```
```
```

```
—
```

```
□ app/sync.py
```

```
```python import requests, mysql.connector, schedule, time from datetime import datetime
```

```
API_KEY = „DEIN_API_KEY“ API_URL = „http://<DB_USER>:8080/v1/alerts?include_decisions=true“
```

```
DB_CONFIG = {
```

```
    "host": "<MYSQL_HOST>",
    "user": "<DB_USER>",
    "password": "<DB_PASSWORD>",
    "database": "<DB_USER>"
```

```
}
```

```
def sync():
```

```
    print(f"[{datetime.now()}] Starte Sync...")
    try:
        response = requests.get(API_URL, headers={"X-Api-Key": API_KEY})
        if response.status_code != 200:
            print("API Fehler:", response.status_code, response.text)
            return
```

```
        data = response.json()
        conn = mysql.connector.connect(**DB_CONFIG)
        cursor = conn.cursor()
```

```
        for alert in data:
            cursor.execute("""
                INSERT IGNORE INTO alerts (
                    id, scenario, scenario_hash, scenario_version, message,
                    created_at, source_scope, source_value, machine_id,
events_count, remediation
                ) VALUES (%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)
            """, (
                alert.get("id"),
                alert.get("scenario"),
                alert.get("scenario_hash"),
                alert.get("scenario_version"),
                alert.get("message"),
                alert.get("created_at"),
                alert.get("source", {}).get("scope"),
```

```

        alert.get("source", {}).get("value"),
        alert.get("machine_id"),
        alert.get("events_count"),
        alert.get("remediation", True)
    ))

```

```

for decision in alert.get("decisions", []):
    cursor.execute("""
        INSERT IGNORE INTO decisions (
            id, origin, type, scope, value, duration, start_at,
stop_at,
            simulated, alert_id
        ) VALUES (%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)
    """, (
        decision.get("id"),
        decision.get("origin"),
        decision.get("type"),
        decision.get("scope"),
        decision.get("value"),
        decision.get("duration"),
        decision.get("start_at"),
        decision.get("stop_at"),
        decision.get("simulated", False),
        alert.get("id")
    ))

```

```

conn.commit()
print(f"{cursor.rowcount} Einträge synchronisiert.")
cursor.close()
conn.close()

```

```

except Exception as e:
    print("Fehler:", e)

```

schedule.every(5).minutes.do(sync) sync()

while True:

```

    schedule.run_pending()
    time.sleep(60)

```

```

—

## 📄 SQL Tabellenstruktur

```sql - alerts CREATE TABLE IF NOT EXISTS alerts (

```

id INT PRIMARY KEY,
scenario VARCHAR(255),

```

```
scenario_hash VARCHAR(255),
scenario_version VARCHAR(64),
message TEXT,
created_at TIMESTAMP,
source_scope VARCHAR(64),
source_value VARCHAR(64),
machine_id VARCHAR(64),
events_count INT,
remediation BOOLEAN
```

);

- decisions CREATE TABLE IF NOT EXISTS decisions (

```
id INT PRIMARY KEY,
origin VARCHAR(64),
type VARCHAR(64),
scope VARCHAR(64),
value VARCHAR(64),
duration VARCHAR(64),
start_at TIMESTAMP,
stop_at TIMESTAMP,
simulated BOOLEAN,
alert_id INT,
FOREIGN KEY (alert_id) REFERENCES alerts(id) ON DELETE CASCADE
```

); ``

—

☐ Beispiel-Metabase-Abfragen

``sql - Anzahl Bans pro Tag SELECT DATE(created\_at) AS Tag, COUNT(\*) AS Anzahl FROM alerts GROUP BY Tag ORDER BY Tag DESC; ``

``sql - Top IPs mit meisten Alerts SELECT source\_value AS IP, COUNT(\*) AS Hits FROM alerts GROUP BY source\_value ORDER BY Hits DESC LIMIT 10; ``

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☐ Ergebnis

- Metabase zeigt strukturierte CrowdSec-Daten - Dashboards für Angriffsquellen, Szenarien und Zeitverlauf - Automatisierte, zyklische Datenaktualisierung

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☐ Tipps

- Achte auf gültige API-Keys (`cscli bouncers add ...`) - Container-Rebuild bei Änderungen: `docker compose down && docker compose up -d --build` - Metabase-URL:

`https://<DB\_USER>.mash4077.dedyn.io`

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