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CrowdSec Sync & Metabase Dashboard

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

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

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

snippet.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

snippet.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

[snippet.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

snippet.sql

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

snippet.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;
```

❑ Ergebnis

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

❑ 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



Lars Weiß 05.06.2025 11:45

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