

Docker compose

docker-compose.yml

```
version: "3.9"

# =====
# Parc - MQTT Bridge stack
# =====
#
# Services:
#   mosquitto - MQTT broker
#   bridge    - Python MQTT?MySQL bridge (this repo)
#
# The MySQL/MariaDB server is expected to be external (already running).
# All database credentials and the broker address are passed via environment
# variables so no secret is baked into any image.
#
# =====

services:

# -----
# Mosquitto MQTT broker
# -----
mosquitto:
  image: eclipse-mosquitto:2
  container_name: mosquitto
  restart: unless-stopped
  volumes:
    - ./mosquitto/config/mosquitto.conf:/mosquitto/config/mosquitto.conf:ro
    - ./mosquitto/server-certs:/mosquitto/certs:ro
    - mosquitto-log:/mosquitto/log
  ports:
    - "${MQTT_EXPOSE_PORT:-8883}:8883"
  networks:
    - parc-net
  healthcheck:
    test: ["CMD-SHELL", "mosquitto_sub -t '$$SYS/broker/uptime' -C 1 -W 2 || exit 1"]
    interval: 10s
    timeout: 5s
    retries: 5

# -----
# MQTT ? MySQL bridge
# -----
bridge:
  build:
    context: .
    dockerfile: Dockerfile
  image: parc-mqtt-bridge:latest
  container_name: parc-bridge
```

```

restart: unless-stopped
volumes:
- ./mosquitto/server-certs/ca.crt:/certs/ca.crt:ro
- ./mosquitto/client-certs/client.crt:/certs/client.crt:ro
- ./mosquitto/client-certs/client.key:/certs/client.key:ro
depends_on:
  mosquitto:
    condition: service_healthy
environment:
  # --- MQTT ---
  MQTT_HOST:          mosquitto          # service name inside Docker network
  MQTT_PORT:          "8883"
  MQTT_KEEPALIVE:     "60"
  MQTT_USER:           ${MQTT_USER:-}
  MQTT_PASSWORD:      ${MQTT_PASSWORD:-}
  MQTT_RETRY_DELAY:   "5"

  # --- Database ---
  DB_HOST:             ${DB_HOST}
  DB_PORT:             ${DB_PORT:-3306}
  DB_NAME:             ${DB_NAME:-parc}
  DB_USER:             ${DB_USER}
  DB_PASSWORD:        ${DB_PASSWORD}
  DB_RETRY_DELAY:     "5"

  # --- Logging ---
  LOG_LEVEL:          ${LOG_LEVEL:-INFO}
networks:
- parc-net
logging:
  driver: "json-file"
  options:
    max-size: "10m"
    max-file: "5"

# -----
# Shared network
# -----
networks:
  parc-net:
    name: parc-net

# -----
# Volumes
# -----
volumes:
  mosquitto-log:

```

Revision #6

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