

# Kupo

Kupo is fast, lightweight and configurable chain-index for the Cardano blockchain. It synchronizes data from the blockchain according to patterns matching addresses present in transaction outputs and builds a lookup table from matches to their associated output references, values and datum hashes. kupo also connect to Cardano node via node socket

Kupo docker repository: <https://hub.docker.com/r/cardanosolutions/kupo>

This is how to setup Kupo connect to Cardano node:



```

services:
  cardano-node:
    image: ghcr.io/intersectmbo/cardano-node:8.9.1
    container_name: cardano-node
    volumes:
      - ./devnet:/devnet
    environment:
      - CARDANO_BLOCK_PRODUCER=true
      - CARDANO_SOCKET_PATH=/devnet/node.socket # used by cardano-node
      - CARDANO_NODE_SOCKET_PATH=/devnet/node.socket # used by cardano-cli
    ports:
      - 3001:3001
    command:
      [
        "run",
        "--config",
        "/devnet/cardano-node.json",
        "--topology",
        "/devnet/topology.json",
        "--database-path",
        "/devnet/db",
        "--shelley-kes-key",
        "/devnet/kes.skey",
        "--shelley-vrf-key",
        "/devnet/vrf.skey",
        "--shelley-operational-certificate",
        "/devnet/opcert.cert",
        "--byron-delegation-certificate",
        "/devnet/byron-delegation.cert",
        "--byron-signing-key",
        "/devnet/byron-delegate.key",
        "--host-addr",
        "0.0.0.0",
        "--port",
        "3001"
      ]
  kupo:
    image: cardanosolutions/kupo:v2.5.0
    logging:
      driver: "json-file"
      options:
        max-size: "400k"
        max-file: "20"
    depends_on:
      - cardano-node
    ports:
      - ${KUPO_PORT:-1442}:1442
    command:
      [
        "--node-socket",
        "/devnet/node.socket",
        "--node-config",
        "/devnet/cardano-node.json",
        "--since",
        "${KUPO_SINCE:-origin}",
        "--match",
        "${KUPO_MATCH:-*}",
        "--workdir",
        "/db",
        "--host",
        "0.0.0.0",
        "--port",
        "1442"
      ]
    volumes:
      - ./devnet:/devnet
      - ./kupo-db:/db

```