Allora V2 + IMP Update By GG (All Users)

#1 Find the path of your docker-compose.yml (If node already running , then run this command)

1.1 Find Your D Path : docker-compose ls

Name status config Files :
basic-coin-prediction-node ,, running(4) ,,
/root/allora/allora-chain/basic-coin-prediction-node/docker-compose.yml



Check Above SS:

cd /root/allora/allora-chain/basic-coin-prediction-node/docker-compose.yml

OR

1.1 If Node Is down, then run this command : cd basic-coin-prediction-node

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#2 Make your docker compose services down: docker-compose down

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#3 Clean up your old containers

3.1 docker stop $(docker ps -aq) 2>/dev/null
3.2 docker rm $(docker ps -aq) 2>/dev/null
3.3 docker rmi -f $(docker images -aq) 2>/dev/null

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#4 Steps to upgrade ur RPC to tesnet1:

4.1 If u didn’t save head id previous then get head id 1st : cat head-data/keys/identity

4.2 rm -rf docker-compose.yml && nano docker-compose.yml

4.3 Fill the file with below details: Don’t forget to add ur **Wallet phrase keys and Head id**

```
version: '3'

services:
  inference:
    container_name: inference-basic-eth-pred
    build:
      context: .
    command: python -u /app/app.py
    ports:
      - "8000:8000"
    networks:
      eth-model-local:
        aliases:
          - inference
        ipv4_address: 172.22.0.4
    healthcheck:
      test: ["CMD", "curl", "-f", "http://localhost:8000/inference/ETH"]
      interval: 10s
      timeout: 10s
      retries: 12
```

```
  volumes:
    - ./inference-data:/app/data


updater:
  container_name: updater-basic-eth-pred
  build: .
  environment:
    - INFERENCE_API_ADDRESS=http://inference:8000
  command: >
    sh -c "
    while true; do
      python -u /app/update_app.py;
      sleep 24h;
    done
    "
  depends_on:
    inference:
      condition: service_healthy
  networks:
    eth-model-local:
      aliases:
        - updater
      ipv4_address: 172.22.0.5
```

```
worker:
  container_name: worker-basic-eth-pred
  environment:
    - INFERENCE_API_ADDRESS=http://inference:8000
    - HOME=/data
  build:
    context: .
    dockerfile: Dockerfile_b7s
  entrypoint:
    - "/bin/bash"
    - "-c"
    - |
      if [ ! -f /data/keys/priv.bin ]; then
        echo "Generating new private keys..."
        mkdir -p /data/keys
        cd /data/keys
        allora-keys
      fi
      # Change boot-nodes below to the key advertised by your head
      allora-node --role=worker --peer-db=/data/peerdb --function-db=/data/function-db \
        --runtime-path=/app/runtime --runtime-cli=bls-runtime --workspace=/data/workspace \
        --private-key=/data/keys/priv.bin --log-level=debug --port=9011 \
        --boot-nodes=/ip4/172.22.0.100/tcp/9010/p2p/head-id \
        --topic=allora-topic-1-worker \
```

```
      --allora-chain-key-name=testkey \
      --allora-chain-restore-mnemonic='WALLET_SEED_PHRASE' \
      --allora-node-rpc-address=https://allora-rpc.testnet-1.testnet.allora.network/ \
      --allora-chain-topic-id=1
  volumes:
    - ./worker-data:/data
  working_dir: /data
  depends_on:
    - inference
    - head
  networks:
    eth-model-local:
      aliases:
        - worker
      ipv4_address: 172.22.0.10


head:
  container_name: head-basic-eth-pred
  image: alloranetwork/allora-inference-base-head:latest
  environment:
    - HOME=/data
  entrypoint:
    - "/bin/bash"
    - "-c"
```

```
    - |
      if [ ! -f /data/keys/priv.bin ]; then
        echo "Generating new private keys..."
        mkdir -p /data/keys
        cd /data/keys
        allora-keys
      fi
      allora-node --role=head --peer-db=/data/peerdb --function-db=/data/function-db  \
        --runtime-path=/app/runtime --runtime-cli=bls-runtime --workspace=/data/workspace \
        --private-key=/data/keys/priv.bin --log-level=debug --port=9010 --rest-api=:6000
  ports:
    - "6000:6000"
  volumes:
    - ./head-data:/data
  working_dir: /data
  networks:
    eth-model-local:
      aliases:
        - head
      ipv4_address: 172.22.0.100



networks:
  eth-model-local:
```

```
  driver: bridge
  ipam:
    config:
      - subnet: 172.22.0.0/24

volumes:
  inference-data:
  worker-data:
  head-data:
```

#5 Add new chain & take faucet:

5.1 Add Chain: https://explorer.testnet-1.testnet.allora.network/
5.2 Take Faucet: https://faucet.testnet-1.testnet.allora.network/

#6 Make your docker compose services build & up (After Faucet recieve do these tasks)

6.1 sudo docker compose build

6.2 docker compose up -d

#7 Check ur all containers (4/4) + Copy container id : docker ps

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#8 Check your worker logs and test the inferences using curl

WORKER_CONTAINER_ID=$(docker ps -q—filter
“ancestor=basic-coin-prediction-node-worker”)
docker logs -f **$WORKER_CONTAINER_ID**

NOTE: Change the $container id with ur actual container id.

#9 If 200 Code , Then your node working fine & pts will update in 2–7 days

```
network_height=$(curl -s -X 'GET' 'https://allora-rpc.testnet-1.testnet.allora.network/abci_info?' -H 'accept: application/json' | jq -r .result.response.last_block_height) && \

curl --location 'http://localhost:6000/api/v1/functions/execute' --header 'Content-Type: application/json' --data '{

    "function_id": "bafybeigpiwl3o73zvvl6dxdqu7zqcub5mhg65jiky2xqb4rdhfmikswzqm",

    "method": "allora-inference-function.wasm",

    "parameters": null,

    "topic": "1",

    "config": {

        "env_vars": [

            {

                "name": "BLS_REQUEST_PATH",

                "value": "/api"

            },

            {

                "name": "ALLORA_ARG_PARAMS",

                "value": "ETH"

            },

            {

                "name": "ALLORA_BLOCK_HEIGHT_CURRENT",

                "value": """${network_height}"""

            }

        ],

        "number_of_nodes": -1,
```

```
        "timeout": 10
    }
}' | jq
```

 # Change network height with latest block,Check here:
https://explorer.testnet-1.testnet.allora.network/allora-testnet-1/block

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#For Next Day Run This Command

#1 Open docker 1st
#2 cd basic-coin-prediction-node
#3 sudo docker compose up -d
#4 docker ps

DONE , Follow GG !!!