How to set up a full node

Pre-requisite

1. Linux (Ubuntu Server 22.04.3 recommended)
2. 8-cpu (ARM or x86_64), 64 GB RAM, 500 GB SSD NVME Storage

Get the dydxprotocold binary and initialize the data directory

Note: the example values below align with thedeployment by DYDX token holders . For alternatives, please visit thNetwork Constants page(opens in a new tab) . 1. Fromhttps://github.com/dydxprotocol/v4-chain/releases/(opens in a new tab) 2. | Look for theprotocol 3. assets. 4. For example, as of10/19/2023 5. , this was the correct binary to use: 6. Download, extract, and rename the binary todydxprotocold 7. . Move it to a directory in yourPATH 8. . Now, initialize the data directory (create the directory first if it doesn't exist).

CHAIN_ID

dydx-mainnet- 1 DYDX_HOME = /home/vmware/.dydx-mainnet- 1 NODE_NICKNAME = mydydxfullnode

dydxprotocold init

--chain-id=CHAIN_ID

--home=DYDX_HOME NODE_NICKNAME

Get the latest applicable genesis.json file and install

Note: the example values below align with thedeployment by DYDX token holders . For alternatives, please visit thNetwork Resources page . 1. Use

curl https://dydx-ops-rpc.kingnodes.com/genesis

| python3 -c

'import json,sys;print(json.dumps(json.load(sys.stdin)["result"]["genesis"], indent=2))'

genesis.json to get the applicable Genesis state of the network.

1. Copy the applicablegenesis.json
2. file to the data directory'sconfig/
3. directory
4. (Alternatives): If the RPC endpoint above does not work, there are these alternatives:
5. https://dydx-dao-rpc.polkachu.com/genesis(opens in a new tab)
6. https://dydx-mainnet-full-rpc.public.blastapi.io/genesis(opens in a new tab)
7. Also checkFull node endpoints → RPC

Install Bware's snapshot (optional but saves days)

Note: the example values below align with thedeployment by DYDX token holders . For alternatives, please visit thNetwork Resources page . 1. Fromhttps://bwarelabs.com/snapshots/dydx(opens in a new tab) 2. Download and extract (usinglz4 -dc < snapshotfile.tar.lz4 | tar xf - 3.) the snapshot contents in the data directory (make sure you are in the data directory before running the tar command). Important: The home directory (DYDX_HOME 4. or/home/vmware/.dydx-mainnet-1 5. in our example) contains anotherdata/ 6. directory. 7. (Alternatives): If the above is not available, there are these alternatives:

- https://polkachu.com/tendermint_snapshots/dydx(opens in a new tab)
- https://dydx-archive-snapshot.kingnodes.com/(opens in a new tab)
- Also checkSnapshot service

Start the full node

Note: the example values below align with thedeployment by DYDX token holders . For alternatives, please visit thNetwork Resources page . 1. Start the full node. Note that you may need to change the--p2p.seeds 2. parameter depending on the applicable v4 software blockchain network – you can find an example onResources page under "Seed nodes"

DYDX_HOME

/home/vmware/.dydx-mainnet- 1

nohup dydxprotocold

start

--p2p.seeds=
"ade4d8bc8cbe014af6ebdf3cb7b1e9ad36f412c0@seeds.polkachu.com:23856,65b740ee326c9260c30af1f044e9cda63c73f7c1@seeds.kingnodes.net:23856,f04a77b92d0d86725cdb2d6b7a7eb0eda8c2
mainnet-
seed.bwarelabs.com:36656,20e1000e88125698264454a884812746c2eb4807@seeds.lavenderfive.com:23856,c2c2fcb5e6e4755e06b83b499aff93e97282f8e8@tenderseed.ccvalidators.com:26401,4f2(
nest.com:26656,a9cae4047d5c34772442322b10ef5600d8e54900@dydx-mainnet-
seednode.allthatnode.com:26656,802607c6db8148b0c68c8a9ec1a86fd3ba606af6@64.227.38.88:26656,4c30c8a95e26b07b249813b677caab28bf0c54eb@rpc.dydx.nodestake.top:666,ebc272824924e
mainnet-seed.autostake.com:27366"

--home=DYDX_HOME

--non-validating-full-node=true

/tmp/fullnode.log

2>&1

& 1. You can tail the log to see the progress.

tail -f

/tmp/fullnode.log 1. The full node is now syncing. To determine whether the full node is caught up with the chain head, please check the applicable block explorer to determine when it reaches the current block – an example block explorer is shown onhttps://www.mintscan.io/dydx(opens in a new tab)

Things you can do with the full node

GET CURRENT BLOCK: You can get the current block with this programhttps://github.com/chiwalfrm/dydxexamples/blob/main/v4block_subscribe.py(opens in a new tab)

Run it with the full node IP address and port26657 :

python3 v4block_subscribe.py

ws:// < IPADDRES S

: 26657 Where is the IP address of your full node.

Last updated onApril 30, 2024 Required Node Configs Running a Full Node