# 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 the example values below align with thedeployment by DYDX token holders . For alternatives, please visit the example values below align with the example values are the example values below align with the example value and the example values are the example values below align with the example value and the example value are the example values are the example value and the example value v s/(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

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

| python3 -c

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

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

- Copy the applicablegenesis.json
- 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)
- https://dydx-mainnet-full-rpc.public.blastapi.io/genesis(opens in a new tab)
- Also check<u>Full node endpoints</u> → 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 the two k Resources page . 1. From https://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 the example values below align with thedeployment by DYDX token holders. For alternatives, please visit the example values below align with thedeployment by DYDX token holders. For alternatives, please visit the example values below align with thedeployment by DYDX token holders. For alternatives, please visit the example values below align with thedeployment by DYDX token holders. For alternatives, please visit the example values below align with thedeployment by DYDX token holders. For alternatives, please visit the example values below align with the example value value values are aligned to the example value value values below align with the example value value value values are aligned to the example value value values below align with the example value value value value values value val

# DYDX HOME

/home/vmware/.dvdx-mainnet- 1

nohup dydxprotocold

--p2p.seeds=

"ade4d8bc8cbe014af6ebdf3cb7b1e9ad36f412c0@seeds.polkachu.com:23856,65b740ee326c9260c30af1f044e9cda63c73f7c1@seeds.kingnodes.net:23856,f04a77b92d0d86725cdb2d6b7a7eb0eda8c2

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

/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 on <a href="https://www.mintscan.io/dydx(opens in a new tab">https://www.mintscan.io/dydx(opens in a new tab</a>)

# Things you can do with the full node

GET CURRENT BLOCK: You can get the current block with this progranhttps://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.

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