Using Cosmovisor to stage dYdX Chain binary upgrade

Prerequisite

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

Preparation

1. Install Go fromhttps://go.dev/doc/install(opens in a new tab)
2. (Version tested is 1.22.1)
3. Install Cosmovisor, with the following command:
4. go install cosmossdk.io/tools/cosmovisor/cmd/cosmovisor@latest
5. Copy cosmovisor from HOME/go/bin/ to a directory in your PATH
6. Add two environment variables to HOME/.profile. The data directory is typically HOME/.dydx-mainnet-1
7. export DAEMON_NAME=dydxprotocold
8. export DAEMON_HOME=
9. Log out and log back in.
10. Initialize Cosmovisor with the following command. The is the the full path to dydxprotocold
11. cosmovisor init
12. 7.Cosmovisor is now ready for use.

Running dydxprotocold under Cosmovisor

You have to change the way you currently run dydxprotocold to run under Cosmovisor. This is done simply by specifying “cosmovisor run” in place of the “dydxprotocold” command you used previously. Therefore, if you previously used “dydxprotocold start --p2p.seeds="ade4d8…”, you would change that to “cosmovisor run start --p2p.seeds="ade4d8…”

Staging upgrade

1. The Cosmovisor directory structure looks like this:

2. To stage an upgrade, you would create a directory inside the upgrades/ directory. For example, as of 4/1/2024, the current version is v3.0.0 and the next upgrade version is v4.0.0. Therefore you would create a directory called “v4.0.0” and then a bin directory inside it.

3. Now, download the upgraded binary and put it inside the bin directory created previously. It must be named dydxprotocold

4. Restart dydxprotocold with Cosmovisor. Now, Cosmovisor will automatically halt the current binary at the block activation height and start the upgrade binary.