

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 from [https://go.dev/doc/install\(opens in a new tab\)](https://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 cosmos-sdk.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. This is the full path to `dydxprotocold`
11. `cosmovisor init`
12. 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.

Last updated on May 29, 2024 [Cosmovisor Upgrading Sidecar](#)