Performing Upgrades

Managing Upgrades

Validators can choose how to run a validator and manage software upgrades according to their preferred option:

- 1. Using Cosmovisor
- 2. Manual

Voting for Upgrade Proposals

SeeGovernance -> Voting

Upgrades

Releases for the dYdX chain will usesemantic versioning(opens in a new tab). Seehere for details.

☆ Cosmovisor Users

Upgrading to a new Major/Minor Version (e.g. v0.1.0)

- 1. Download the binary (opens in a new tab)
- 2. for the new release, rename the binary todydxprotocold
- 3.

mv dydxprotocold. < versio n

- < platfor m

dydxprotocold 1. Make sure that the new binary is executable.

chmod 755

dydxprotocold 1. Create a new directoryDAEMON_HOME/cosmovisor/upgrades//bin 2. where 3. is the URI-encoded name of the upgrade as specified in the Software Upgrade Plan.

mkdir -p DAEMON HOME /cosmovisor/upgrades/ < nam e

/bin 1. Place the new binary underDAEMON_HOME/cosmovisor/upgrades//bin 2. before the upgrade height.

mv < path_to_major_versio n

DAEMON_HOME /cosmovisor/upgrades/ < nam e

/bin IMPORTANT : Do this before the upgrade height, so that cosmovisor can make the switch.

That's it! The old binary will stop itself at the upgrade height, and cosmovisor will switch to the new binary automatically. For aPlan with namev0.1.0, your cosmovisor directory should look like this:

cosmovisor/ |----- current/ # either genesis or upgrades/ |----- genesis | ------ bin | ------ dydxprotocold ------ upgrades ------ v0.1.0 |------- bin | ------- dydxprotocold

Upgrading to a Patch Version (e.g. v0.0.2)

- 1. Download the binary (opens in a new tab)
- 2. for the new patch release, rename the binary todydxprotocold
- 3. .

mv dydxprotocold. < versio n

- < platfor m

dydxprotocold 1. Make sure that the new binary is executable.

chmod 755

dydxprotocold 1. Replace the binary underDAEMON_HOME/cosmovisor/current/bin 2. with the new binary.

mv < path to patch version

DAEMON HOME /cosmovisor/current/bin 1. Stop the current binary (e.g. Ctrl+C) 2. Restartcosmovisor

cosmovisor run

start

- --p2p.seeds= "[seed node id]@[seed node ip addr]:26656"
- --bridge-daemon-eth-rpc-endpoint= ""

Manual Users

Upgrading to a Major/Minor Version (e.g. v0.1.0)

- 1. Download the binary (opens in a new tab)
- 2. for the new release.1. Ideally also before the upgrade height to minimize downtime
- 3. Make sure that the new binary is executable.

chmod 755

dydxprotocold 1. Wait for the old binary to stop at the upgrade height (this should happen automatically). 2. Restart the application using thenew binary from step 1 3. .

- . /dydxprotocold start
- --p2p.seeds= "[seed_node_id]@[seed_node_ip_addr]:26656"
- --bridge-daemon-eth-rpc-endpoint= ""

Upgrading to a Patch Version (e.g. v0.0.2)

- 1. Download the binary (opens in a new tab)
- 2. for the new release.
- 3. Make sure that the new binary is executable.

chmod 755

dydxprotocold 1. Stop the current binary (e.g. Ctrl+C) 2. Restart the application using the new binary from step 1.

- . /dydxprotocold start
- --p2p.seeds= "[seed_node_id]@[seed_node_ip_addr]:26656"
- --bridge-daemon-eth-rpc-endpoint= ""

Rollback

In the case of an unsuccessful chain upgrade, an incorrectAppHash might get persisted by Tendermint. To move forward, validators will need to rollback to the previous state so that upon restart, Tendermint can replay the last block to get the correctAppHash .Please note: validators should never rollback further than the last invalid block. In extreme edge cases, transactions could be reverted / re-applied for the last black and cause issues.

☆ Cosmovisor Users

Cosmovisor backs up thedata directory before attempting an upgrade. To restore to a previous version:

- 1. Stop the node (e.g. Ctrl+C)
- 2. Then, copy the contents of your backup data directory back to~/.dydxprotocol

rm -rf

- ~/.dydxprotocol/data mv ~/.dydxprotocol/data-backup-YYYY-MM-DD
- ~/.dydxprotocol/data 1. Restart your node.

cosmovisor run

start

- --p2p.seeds= "[seed_node_id]@[seed_node_ip_addr]:26656"
- --bridge-daemon-eth-rpc-endpoint= ""

Manual Users

If you don't have a data backup:

- 1. Stop the node (e.g. Ctrl+C)
- 2. Rollback the application and Tendermint state by one block height.
- . /dydxprotocold rollback 1. Restart your node.
- . /dydxprotocold start
- --p2p.seeds= "[seed_node_id]@[seed_node_ip_addr]:26656"
- --bridge-daemon-eth-rpc-endpoint= "" Last updated onMay 30, 2024 Types of Upgrades Cosmovisor