Statesync

Got questions or need help with using state-sync properly?

- You can find help in Telegramhere
- Visit the Secret Network Discordhere
- and ask in #node-discussion or #node-support for help * A complete to go command that should fit most needs can be found affast State-sync script. Be aware that this script can also fail or cause problems. In that case please ask for help in the channels above. Statesync is a module built into the Cosmos SDK to allow validators to rapidly join the network by syncing your node with a snapshot enabled RPC from a trusted block height.

This greatly reduces the time required for a node to sync with the network from days to minutes. The limitations of this are that there is not a full transaction history, just the most recent state that the state-sync RPC has stored. An advantage of state-sync is that the database is very small in comparison to a fully synced node, therefore using state-sync to re-sync your node to the network can help keep running costs lower by minimizing storage usage.

By syncing to the network with state-sync, a node can avoid having to go through all the upgrade procedures and can sync with the most recent binary only.

Mainnet Statesync

This documentation assumes you have followed the instructions for Running a Full Node . First, adjust the configuration to be compatible with state-sync:

Set IAVI -disable-fastnode

IAVL fast nodemust be disabled, otherwise the daemon will attempt to upgrade the database whil state sync is occuring.

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Copy sed -i.bak -e "s/^iavl-disable-fastnode =./iavl-disable-fastnode = true/" HOME/.secretd/config/app.toml

...

Set correct snapshot-interval

To ensure that state-sync works on your node, it has to look for the correct snapshots that the snapshot RPC provides.

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 $Copy \ sed \ -i.bak \ -e \ "s/^snapshot-interval = ./snapshot-interval = ./snapshot-in$

••

Assign And Verify Variables

SNAP_RPC is the RPC node endpoint that is used for statesyncing

...

Copy SNAP_RPC="https://rpc.statesync.secretsaturn.net:443"

•••

Set the state-syncBLOCK_HEIGHT and fetch the TRUST_HASH from the snapshot RPC. The BLOCK_HEIGHT to sync is determined by finding the latest block that's a multiple of snapshot-interval.

...

Copy SNAP_RPC="https://rpc.statesync.secretsaturn.net:443"&& BLOCK_HEIGHT=(curl-sSNAP_RPC/block|jq-r.result.block.header.height|awk'{print 1 - (1 % 2000-3)}')&& TRUST_HASH=(curl-s"SNAP_RPC/block?height=BLOCK_HEIGHT"|jq-r.result.block_id.hash)

echoBLOCK_HEIGHT TRUST_HASH

•••

The output should be similar to:

Сору

11238000

B342DB8A2B603F528F1F6372FE088F48D8FD0B8CD2FFB7E6B96EEDF9B804BA5B

Set Variables In ~/.secretd/config/config.toml

...

 $\label{lem:copy} \begin{center} Copy sed-i.bak-E"s|^(enable[[:space:]]+=[[:space:]]+)./\label{lem:copy} -1.5 \label{lem:copy} -1.5$

Reset Database And Stop Node

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 .

This will erase your node database. If you are already running validator, be sure you backed up yourconfig/priv_validator_key.json prior to runningunsafe-reset-all .

It is recommended to copy the signing state of the node by copingdata/priv_validator_state.json and only runningunsafe-reset-all to avoid potential double signing. The code below stops the node, resets the temporary directory and resets the node into a fresh state.

...

Copy sudosystemctlstopsecret-node&& sudoumount-l/tmp&& sudomount-ttmpfs-osize=12G,mode=1777overflow/tmp&& sudorm-rfHOME/.secretd/.compute&& sudorm-rfHOME/.secretd/data&& mkdirHOME/.secretd/data&& secretdtendermintunsafe-reset-all--homeHOME/.secretd&& mkdirHOME/.secretd/data/snapshots/

Restart Node And Check Logs

This generally takes several minutes to complete, but has been known to take up to 24 hours. To better help the process along, addeeds.

...

Copy sudosystemctlrestartsecret-node&&journalctl-fusecret-node

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Expected State Sync Output

In case state-sync fails

When state-sync fails, you can restart the process and try again using the condensed script below. This usually fixes some of the random problems with it:

. . .

Copy SNAP_RPC="https://rpc.statesync.secretsaturn.net:443"&& BLOCK_HEIGHT=(curl-sSNAP_RPC/block|jq-r.result.block.header.height|awk'{print 1 - (1 % 2000-3)}')&& TRUST_HASH=(curl-s"SNAP_RPC/block?height=BLOCK_HEIGHT"|jq-r.result.block_id.hash)&& sed-i.bak-E"s|^(enable[[:space:]]+=[[:space:]]+)./\1true/;\\ s\/(rpc_servers[[:space:]]+=

[[:space:]]+.]\1\"http://rpc.statesync1.secretsaturr.net:26657,http://rpc.statesync2.secretsaturr.net:26657,http://rpc.statesync3.secretsaturr.net:26657," | ; \ s|^(trust_height[[:space:]]+.][:space:]]+.]\1\"TRUST_HASH\"|"HOME/.secretd/config/config.toml&& echoBLOCK_HEIGHT TRUST_HASH& sudosystemctlstopsecret-node& sudoumount-l/tmp&& sudomount-ttmpfs-osize=12G,mode=1777overflow/tmp&& sudorm-rfHOME/.secretd/data&& mkdirHOME/.secretd/data&& secretdendermintunsafe-reset-all--homeHOME/.secretd&& mkdirHOME/.secretd/data/snapshots/&& sudosystemctlrestartsecret-node&& journalctl-fusecret-node

...

Fast State-sync script

To safe time, you can use this script to quickly init everything you need for statesync. Please be aware that this might be dangerous if you have a validator. "

Last updated5 months ago On this page *Mainnet Statesync * Assign And Verify Variables * Set Variables In ~/.secretd/config/config.toml * Reset Database And Stop Node * Restart Node And Check Logs * In case state-sync fails * Fast State-sync script

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