Archive Nodes

Archive All Blockchain Data.

An archive node keeps all the past blocks. An archive node makes it convenient to query the past state of the chain at any point in time. Finding out what an account's balance, stake size, etc at a certain block was, or which extrinsics resulted in a certain state change are fast operations when using an archive node. However, an archive node takes up a lot of disk space - nearly 2TB forsecret-4 as of Feb 1, 2023.

Recommended Requirements

- 32GB RAM
- 3TB NVMe SSD
- 2 dedicated cores of any Intel Skylake processor (Intel® 6th generation) or better (Xeon gen3 (Ice Lake) NOT supported)
- Motherboard with support for SGX in the BIOS
-

More on hardware supporthere .

Note that syncing from scratch/following these instructions takes several weeks, since state-sync is not available for Archive Nodes. To setup your archive node you can follow the instructions below:

Install latestsecretd

Download the secretd .deb from thelatest release .

Note : As of writing these lines the latest release isv1.6.0 will be referenced as so for the rest of this document.

Node : Archive nodes are only available withgoleveldb . If this doesn't mean anything to you, just proceed with this guide as usual.

```

Copy

# Get the v1.6.0 binaries

wget "https://github.com/scrtlabs/SecretNetwork/releases/download/v1.6.0/secretnetwork_1.6.0_mainnet_goleveldb_amd64.deb"

# Verify the v1.6.0 binaries

echo 'ce9ba85d346fa460ed3fc98871f2a254b269fafa835fc555c9184f6405d8c80a secretnetwork_1.6.0_mainnet_goleveldb_amd64.deb' | sha256sum --check

```

Installsecretd

```

Copy sudodpkg-isecretnetwork_1.6.0_mainnet_goleveldb_amd64.deb

# verify installation

secretdversion

# 1.6.0

```

Setup the Node

Setup the node using theRunning a Full Node guide. You should stop at theSet minimum-gas-price Parameter step.

Do NOT begin syncing yet!

Install v1.2.0-archivesecretd

Now that you have registered the node with the latest version, installv1.2.0-archive .

```

Copy

# Get the v1.2.0-archive binaries

wget"https://github.com/scrtlabs/SecretNetwork/releases/download/v1.2.0-archive/secretnetwork_1.2.0-archive_amd64.deb"

# Install the v1.2.0-archive binaries

sudodpkg-isecretnetwork_1.2.0-archive_amd64.deb

```

Set Pruning Parameter

```

Copy pruning="nothing" sed-i-e"s/^pruning =./pruning = \"pruning\"/"HOME/.secretd/config/app.toml

```

Begin Syncing

Note that thesecret-node system file is created in a previous step.

```

Copy sudosystemctlenablesecret-node&&sudosystemctlstartsecret-node

```

If everything above worked correctly, the following command will show your node streaming blocks (this is for debugging purposes only, kill this command anytime with Ctrl-C). It might take a while for blocks to start streaming, so grab some while you wait!

```

Copy journalctl-f-usecret-node

```

```

Copy -- Logs begin at Mon2020-02-1016:41:59UTC. -- Nov0911:16:31scrt-node-01secretd[619529]:11:16AM INF indexed block height=12module=txindex Nov 09 11:16:35 scrt-node-01 secretd[619529]: 11:16AM INF Ensure peers module=pex numDialing=0 numInPeers=0 numOutPeers=0 numToDial=10 Nov0911:16:35scrt-node-01secretd[619529]:11:16AM INF No addresses to dial. Falling back to seeds module=pex Nov 09 11:16:36 scrt-node-01 secretd[619529]: 11:16AM INF Timed out dur=4983.86819 height=13 module=consensus round=0 step=1 Nov 09 11:16:36 scrt-node-01 secretd[619529]: 11:16AM INF received proposal module=consensus proposal={"Type":32,"block_id":
{"hash":"0AF9693538AB0C753A7EA16CB618C5D988CD7DC01D63742DC4795606D10F0CA4","parts":
{"hash":"58F6211ED5D6795E2AE4D3B9DBB1280AD92B2EE4EEBAA2910F707C104258D2A0","total":1}},"height":13,"pol_round":-
1,"round":0,"signature":"eHY9dH8dG5hElNEGbw1U5rWqPp7nXC/VvOlAbF4DeUQu/+q7xv5nmc0ULljGEQR8G9fhHaMQuKjgrxP2KsGICg==","timestamp":"2021-11-09T11:16:36.7744083Z"} Nov 09 11:16:36 scrt-node-01 secretd[619529]: 11:16AM INF received complete proposal block hash=0AF9693538AB0C753A7EA16CB618C5D988CD7DC01D63742DC4795606D10F0CA4 height=13 module=consensus Nov 09 11:16:36 scrt-node-01 secretd[619529]: 11:16AM INF finalizing commit of block
hash=0AF9693538AB0C753A7EA16CB618C5D988CD7DC01D63742DC4795606D10F0CA4 height=13 module=consensus num_txs=0
root=E4968C9B525DADA22A346D5E158C648BC561EEC351F402A611B9DA2706FD8267 Nov 09 11:16:36 scrt-node-01 secretd[619529]: 11:16AM INF minted coins from module account amount=6268801uscrt from=mint module=x/bank Nov 09 11:16:36 scrt-node-01 secretd[619529]: 11:16AM INF executed block height=13 module=state num_invalid_txs=0 num_valid_txs=0 Nov 09 11:16:36 scrt-node-01 secretd[619529]: 11:16AM INF commit synced
commit=436F6D6D697449447B5B37352035352032302035203234203131203233382035332038372031313720313337203132302031363820323430203530203232302035372034352036362031383222
Nov 09 11:16:36 scrt-node-01 secretd[619529]: 11:16AM INF committed state app_hash=4B371405180BEE3557758978A8F032DC392D42B6BDEF63F94C2670361703EC2F height=13 module=state
num_txs=0 ^C

```

You now have an Archive node running!

Execute upgrades

Syncing a node from scratch means that from time to time you'll need to perform an upgrade (at the block height that the upgrade was originally took place on mainnet).

You will need to use the designated archive-node binaries when available. For the rest of the upgrades, use the binaries for the respective version from the releases page .

As of the writing of these lines, the upgrade timing (in block-height) are:

- v1.3.0 - block height3,343,000
- (binaries
-).
- v1.4.0 - block height5,309,200
- (binaries
-).
- v1.5.0 - block height5,941,700
- (binaries
-).
- v1.6.0 - block height6,537,300
- (binaries
-).
-

For more detailed upgrade instructions, you can refer to the v1.5.0 upgrade instructions .

Last updated1 year ago On this page * Archive All Blockchain Data. * Recommended Requirements * Install latest secretd * Setup the Node * Install v1.2.0-archive secretd * Set Pruning Parameter * Begin Syncing * Execute upgrades

Was this helpful? Edit on GitHub Export as PDF