

Cosmovisor

Setting Up A Node Using Cosmovisor

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Cosmovisor is a new process manager for cosmos blockchains. It can make low-downtime upgrades smoother, as validators don't have to manually upgrade binaries during the upgrade, and instead can pre-install new binaries, and Cosmovisor will automatically update them based on on-chain SoftwareUpgrade proposals.

You should review the docs for Cosmovisor located here <https://docs.cosmos.network/master/run-node/cosmovisor.html>

Install Cosmovisor

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Get the Cosmovisor binary

```
wget -O - "https://github.com/cosmos/cosmos-sdk/releases/download/cosmovisor%2Fv1.1.0/cosmovisor-v1.1.0-linux-amd64.tar.gz" | sudo tar -xz -C /bin cosmovisor sudo chmod+x /bin/cosmovisor
```

Make the necessary directory structure for seced v1.2

```
mkdir -p ~/.seced/cosmovisor/genesis/bin
```

Setup environment variables for every future bash session

This will make sure to setup cosmovisor on you shell in

in case you'll want to run the cosmovisor command manually

```
echo "# Setup Secret & Cosmovisor export SCRT_ENCLAVE_DIR=\"${HOME}/.seced/cosmovisor/current/bin\" export LD_LIBRARY_PATH=\"${LD_LIBRARY_PATH}:\n${HOME}/.seced/cosmovisor/current/bin\" export PATH=\"${PATH}:\n${HOME}/.seced/cosmovisor/current/bin\" export DAEMON_NAME=seced export DAEMON_HOME=\"${HOME}/.seced\" export\nDAEMON_ALLOW_DOWNLOAD_BINARIES=false export DAEMON_LOG_BUFFER_SIZE=512 export DAEMON_RESTART_AFTER_UPGRADE=true export DAEMON_DATA_BACKUP_DIR=\"\n${HOME}\" export UNSAFE_SKIP_BACKUP=true">> ~/.profile source ~/.profile
```

Setup a systemd service

```
echo "[Unit]\nDescription=Cosmovisor Secret Network Node\nAfter=network.target
```

```
[Service]\nType=simple\nWorkingDirectory=${HOME}\nExecStart=/bin/cosmovisor run start\nUser=${USER}\nRestart=on-failure\nStartLimitInterval=0\nRestartSec=3\nLimitNOFILE=65535\nLimitMEMLOCK=209715200\nEnvironment=SCRT_ENCLAVE_DIR=${HOME}/.seced/cosmovisor/current/bin\nEnvironment=LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:\n${HOME}/.seced/cosmovisor/current/bin\nEnvironment=DAEMON_NAME=seced\nEnvironment=DAEMON_HOME=${HOME}/.seced\nEnvironment=DAEMON_ALLOW_DOWNLOAD_BINARIES=false\nEnvironment=DAEMON_LOG_BUFFER_SIZE=512\nEnvironment=DAEMON_RESTART_AFTER_UPGRADE=true\nEnvironment=DAEMON_DATA_BACKUP_DIR=${HOME}\nEnvironment=UNSAFE_SKIP_BACKUP=true
```

```
[Install]\nWantedBy=multi-user.target\n\"| sudo tee /etc/systemd/system/cosmovisor.service >/dev/null
```

```
sudo systemctl daemon-reload\nsudo systemctl enable cosmovisor
```

...

Set Up A New v1.2 Node

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Make the necessary directory structure for v1.2

```
mkdir -p ~/.seced/cosmovisor/genesis/bin
```

Get v1.2 binaries

```
wget -P /tmp/ "https://github.com/secdlabs/SecretNetwork/releases/download/v1.2.2/secretnetwork_v1.2.2_mainnet_amd64.deb"
```

Verify v1.2 binaries checksum

```
echo "1a51d3d9324979ef9a1f56023e458023488b4583bf4587abed2d1f389aea947 /tmp/secretnetwork_v1.2.2_mainnet_amd64.deb" | sha256sum --check
```

Extract v1.2 from archive

```
dpkg-deb -R /tmp/secretnetwork_v1.2.2_mainnet_amd64.deb /tmp/secretnetwork_v1.2.2_mainnet_amd64.deb.extracted
```

Move v1.2 binaries to Cosmovisor's directory

```
mv /tmp/secretnetwork_v1.2.2_mainnet_amd64.deb.extracted/usr/{local/bin/,lib}~/.seced/cosmovisor/genesis/bin
```

...

Now the Cosmovisor directory structure should look like this:

...

```
Copy find ~/.seced/cosmovisor /home/ubuntu/.seced/cosmovisor/ /home/ubuntu/.seced/cosmovisor/genesis/bin/ /home/ubuntu/.seced/cosmovisor/genesis/bin/libgo_cosmwasm.so\n/home/ubuntu/.seced/cosmovisor/genesis/bin/librust_cosmwasm_enclave.signed.so /home/ubuntu/.seced/cosmovisor/genesis/bin/tendermint_enclave.signed.so\n/home/ubuntu/.seced/cosmovisor/genesis/bin/seced
```

...

Now you might want to checkout the [How To Join Secret Network as a Full Node](#) guide for syncing a node from height 0 or [Sync with State-Sync](#) for syncing a node from a more recent block height.

After making the proper configurations to your new node, launch it using `sudo systemctl start cosmovisor`. You should now see blocks executing in the logs (`journalctl -fu cosmovisor`).

Migrate A Running v1.2 Node

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Make the necessary directory structure for v1.2

```
mkdir -p ~/.secretd/cosmovisor/genesis/bin
```

Disable the old secret-node systemd service

```
sudo systemctl stop secret-node sudo systemctl disable secret-node
```

Move v1.2 binaries to Cosmovisor's directory

```
sudo mv /usr/local/bin/secretd /usr/lib/{libgo_cosmwasm.so,librust_cosmwasm_enclave.signed.so} ~/.secretd/cosmovisor/genesis/bin
```

For a query node also move the query enclave

```
sudo mv /usr/lib/librust_cosmwasm_query_enclave.signed.so ~/.secretd/cosmovisor/genesis/bin
```

Launch the Cosmovisor service

```
sudo systemctl start cosmovisor
```

...

Now the Cosmovisor directory structure should look like this:

...

Copy find ~/.secretd/cosmovisor /home/ubuntu/.secretd/cosmovisor/ /home/ubuntu/.secretd/cosmovisor/genesis/bin/ /home/ubuntu/.secretd/cosmovisor/genesis/bin/libgo_cosmwasm.so /home/ubuntu/.secretd/cosmovisor/genesis/bin/librust_cosmwasm_enclave.signed.so /home/ubuntu/.secretd/cosmovisor/genesis/bin/secretd

...

To relaunch your node, use `sudo systemctl start cosmovisor`. You should now see blocks executing in the logs (`journalctl -fu cosmovisor`).

Prepare A v1.3 Node Upgrade (Shockwave Alpha)

The "Shockwave Alpha" upgrade is anticipated to be on Wednesday April 27th, 2022 at 2:00PM UTC. Below are instructions to prepare Cosmovisor for automatically upgrading your node to v1.3.

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Make the necessary directory structure for v1.3

```
mkdir -p ~/.secretd/cosmovisor/upgrades/v1.3/bin
```

Get & verify v1.3 binaries

Uncomment goleveldb or rocksdb:

```
wget -P /tmp/
```

```
"https://github.com/scrtlabs/SecretNetwork/releases/download/v1.3.0/secretnetwork_1.3.0_ma
```

```
echo "b5a4387fd3af477f1d7d0c8ab13debc9b9ad9abccb59c82b1a35cc8a90db902b
/tmp/secretnetwork_1.3.0_mainnet_goleveldb_amd64.deb" | sha256sum --check
```

or rocksdb

```
wget -P /tmp/
```

```
"https://github.com/scrtlabs/SecretNetwork/releases/download/v1.3.0/secretnetwork_1.3.0_ma
```

```
echo "a1fc48003b3b563aae216901fc5821bb11164746c61b86507bc813cb49bd85cb
/tmp/secretnetwork_1.3.0_mainnet_rocksdb_amd64.deb" | sha256sum --check
```

Extract v1.3 from archive

```
dpkg-deb -R /tmp/secretnetwork_1.3.0_mainnet_*_amd64.deb /tmp/secretnetwork_1.3.0_mainnet_amd64.deb.extracted
```

Move v1.3 binaries to Cosmovisor's directory

```
mv /tmp/secretnetwork_1.3.0_mainnet_amd64.deb.extracted/usr/{local/bin/secretd,lib/librust_cosmwasm_enclave.signed.so,librust_cosmwasm_query_enclave.signed.so,lib/libgo_cosmwasm.so}
~/.secretd/cosmovisor/upgrades/v1.3/bin
```

...

Now the Cosmovisor directory structure should look like this:

...

Copy find ~/.secretd/cosmovisor /home/ubuntu/.secretd/cosmovisor/ /home/ubuntu/.secretd/cosmovisor/genesis/bin/ /home/ubuntu/.secretd/cosmovisor/genesis/bin/libgo_cosmwasm.so /home/ubuntu/.secretd/cosmovisor/genesis/bin/librust_cosmwasm_enclave.signed.so /home/ubuntu/.secretd/cosmovisor/upgrades/v1.3/bin/secretd /home/ubuntu/.secretd/cosmovisor/upgrades/v1.3/bin/librust_cosmwasm_enclave.signed.so /home/ubuntu/.secretd/cosmovisor/upgrades/v1.3/bin/librust_cosmwasm_query_enclave.signed.so /home/ubuntu/.secretd/cosmovisor/upgrades/v1.3/bin/secretd

...

If set up properly, when the time comes Cosmovisor will perform an automatic v1.2 to v1.3 upgrade.

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