

# v1.9

## Secret Network v1.9 Instructions

### ⚠ IMPORTANT NOTES ⚠

- All coordination efforts will be done in the "SN Validators" Telegram group.
- Make sure to [backup your validator](#)
- before making any changes.
- Please read carefully before you begin the upgrade.
- 

### Upgrading Manually

⚠ Note: The below instructions assume default installation. DO NOT COPY-PASTE if `config.toml` is not in `~/.secrettd/config/config.toml` or if you modified `/etc/systemd/system/secret-node.service`. If you have modified `/etc/systemd/system/secret-node.service`, you will need to re-apply those changes post installation and pre service restart.

When the network reaches the halt height 8,861,800, you'll see this message in your node's log (`journalctl -fu secret-node`):

...

```
Copy 2:00PMERRUPGRADE"v1.9"NEEDEDatheight:8861800: 2:00PMERRCONSENSUSFAILURE!!!err="UPGRADE \"v1.9\"
NEEDED at height: 8861800
```

...

Then, the upgrade steps for v1.9 are:

...

Copy

## Backup your node's SGX secrets

```
cp -a /opt/secret/.sgx_secrets ~/.sgx_secrets_backup mkdir 18backup cp ~/.secrettd/.node/*18backup/
```

## Figure out currently used db backend

```
DB_BACKEND=$(awk -F" " '^^db_backend =/{print 2}' ~/.secrettd/config/config.toml)
```

## Get the v1.9 binaries

```
wget "https://github.com/scribblab/SecretNetwork/releases/download/v1.9.0/secretnetwork_1.9.0_mainnet_{DB_BACKEND}_amd64.deb"
```

## Verify the v1.9 binaries

```
echo '239ee0f4956a8dc6bbe17312861a67d12efa92bd03f653ed59fbac360e8aa676
secretnetwork_1.9.0_mainnet_goleveldb_amd64.deb 785a4863d7ab83ae83d30da07352de3542f492f5be45fdd3a7d34b960b5be44d
secretnetwork_1.9.0_mainnet_rocksdb_amd64.deb' | grep "DB_BACKEND" | sha256sum --check
```

## Stop the v1.8 node

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

## Install the v1.9 binaries

```
sudo apt install -y ./secretnetwork_1.9.0_mainnet_{DB_BACKEND}_amd64.deb
```

## re-apply any systemd unit file customizations

## Restart the node

```
sudo systemctl restart secret-node
```

After restarting the node with v1.9, you should see INF applying upgrade "v1.9" at height: 8861800 in the logs (journalctl -fu secret-node ). Once 67% of voting power comes online, you'll see blocks executing again.

### Upgrading Automatically Using Cosmovisor

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.

⚠ Cosmovisor is still new and best practices for using it are not yet established. If you don't feel adventurous at this time, we recommend [upgrading the manual way](#).

For instructions on how to setup Cosmovisor, go [here](#).

### Details of Upgrade Time

When the network reaches the halt height 8,861,800, the Secret Network blockchain will be halted and validators will need to take action to upgrade the chain to the secretd v1.9 binary (be it manually or automatically).

The proposal targets the upgrade proposal block to be 8,861,800, anticipated to be on Saturday May 16, 2023 at 2:00PM UTC.

The upgrade is anticipated to take approx 30 minutes, during which time, there will not be any on-chain activity on the network.

### In Case of an Upgrade Failure

In the event of an issue at upgrade time, we should coordinate via the "SN Validators" Telegram group.

If as a result of a software bug the network fails to produce new blocks with the v1.9 binaries, the SCRT Labs team will distribute a v1.8 binary with an empty v1.9 upgrade handler, which will allow the chain to revert to v1.8 while continuing to produce new blocks.

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