

Slashing

A user can query and interact with the slashing module using the CLI. For more information about how slashing works on the Secret Network go to the [Node Runners](#) page and look for the [Slashing For Downtime](#) ' section.

See [Slashing](#) for the official Cosmos Network module documentation.

Query

The query commands allow users to query slashing state:

...

```
Copy secretcli query slashing --help
```

...

...

Copy Available Commands: params Query the current slashing parameters signing-info Query a validator's signing information signing-Infos Query signing information of all validators

...

Params

The params command allows users to query genesis parameters for the slashing module.

...

```
Copy secretcli query slashing params -oj | jq
```

...

Example Output

...

```
Copy { "signed_blocks_window": "22500", "min_signed_per_window": "0.500000000000000000",
"downtime_jail_duration": "600s", "slash_fraction_double_sign": "0.050000000000000000",
"slash_fraction_downtime": "0.000100000000000000" }
```

...

Signed Blocks Window

signed_blocks_window , alongside min_signed_per_window is how validator uptime is calculated. With an average block time of 6 seconds, 22500 blocks is roughly 37 hours worth of blocks.

Min Signed Per Window

min_signed_per_window is a percentage. For Secret, that number is 50%. In other words, to become jailed, a validator must miss half of the 22500 blocks (as defined by signed_blocks_window) in order to become jailed. Given that 22500 blocks takes roughly 37 hours, it'd require missing nearly 18 hours of consecutive blocks to become jailed and incur a downtime slashing event.

Downtime Jail Duration

downtime_jail_duration is how many seconds must pass before a validator can become unjailed by running `secretcli tx slashing unjail --from {wallet}` .

Slash Fraction Double Sign

slash_fraction_double_sign is the percent of all stake on the validator that is burned when a validator is slashed. For most networks including Secret, that value is 5%. Meaning, if 100 SCRT is delegated to the validator regardless of whether it's owned by the operator or delegators, 5 SCRT will be burned and permanently taken out of circulation.

Slash Fraction Downtime

slash_fraction_downtime is the percent of all stake on the validator that is burned when a validator is slashed. For most

networks including Secret, that value is 0.01%. Meaning, if 100 SCRT is delegated to the validator regardless of whether it's owned by the operator or delegators, 0.01 SCRT will be burned and permanently taken out of circulation.

Signing-info

The `signing-info` command allows users to query signing-info of the validator using consensus public key.

...

Copy `secretcli query slashing signing-info [public-key]`

...

Example

...

Copy `secretcli query slashing signing-info '{ "@type": "/cosmos.crypto.ed25519.PubKey", "key": "iKZCEP93nVojf2UhQh72yT+d3XEgRlrX1NZBtJJCL2o=" }'`

...

Example Output:

...

Copy `{ "address": "secretvalcons1hgsv6kc667du838csfuy7swcdq2z5mdtuje4wa", "start_height": "3117888", "index_offset": "237143", "jailed_until": "1970-01-01T00:00:00Z", "tombstoned": false, "missed_blocks_counter": "38" }`

...

Signing-infos

The `signing-infos` command allows users to query signing infos of all validators.

...

Copy `secretcli query slashing signing-infos`

...

Example Output

...

Copy `{ "info": [// ... { "address": "secretvalcons1hgsv6kc667du838csfuy7swcdq2z5mdtuje4wa", "start_height": "3117888", "index_offset": "237143", "jailed_until": "1970-01-01T00:00:00Z", "tombstoned": false, "missed_blocks_counter": "38" }, // ...] }`

...

Transactions

The `tx` commands allow users to interact with the slashing module.

...

Copy `secretcli tx slashing --help`

...

Unjail

The `unjail` command allows users to unjail a validator previously jailed for downtime.

...

Copy `secretcli tx slashing unjail --from mykey [flags]`

...

Example

...

Copy secret tx slashing unjail --from mykey

...

Example Output

...

Copy // Some code

...

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