Registering a Validator on Sei

Prerequisites

Before you register a validator, ensure that you have completed the following steps:

1. Install theseid
2. CLI
3. : Follow the[installation guide(opens in a new tab)](#)
4. to set up theseid
5. command-line interface.
6. Set Up a Full Node
7. : Ensure your full node is fully synced with the network. Refer to the[full node setup guide(opens in a new tab)](#)
8. .

Generate a Validator Key

Generate a new keypair for your validator:

seid

keys

add

< nam e

   [flags]

Flags:

--account uint32 Account number for HD derivation --algo string Key signing algorithm to generate keys for (default "secp256k1") --coin-type uint32 coin type number for HD derivation (default 118) --dry-run Perform action, but don't add key to local keystore --hd-path string Manual HD Path derivation (overrides BIP44 config) -h, --help help for add --index uint32 Address index number for HD derivation -i, --interactive Interactively prompt user for BIP39 passphrase and mnemonic --ledger Store a local reference to a private key on a Ledger device --multisig strings List of key names stored in keyring to construct a public legacy multisig key --multisig-threshold int K out of N required signatures. For use in conjunction with --multisig (default 1) --no-backup Don't print out seed phrase (if others are watching the terminal) --nosort Keys passed to --multisig are taken in the order they're supplied --pubkey string Parse a public key in JSON format and saves key info to file. --recover Provide seed phrase to recover existing key instead of creating Save the generated mnemonic phrase securely as it will be used to recover your keypair.

Create a Validator

Once your full node is synced, create a validator using the following command:

seid

tx

staking

create-validator [flags]

Flags:

-a, --account-number uint The account number of the signing account (offline mode only) --amount string Amount of coins to bond -b, --broadcast-mode string Transaction broadcasting mode (sync|async|block) (default "sync") --commission-max-change-rate string The maximum commission change rate percentage (per day) --commission-max-rate string The maximum commission rate percentage --commission-rate string The initial commission rate percentage --details string The validator's (optional) details --dry-run ignore the --gas flag and perform a simulation of a transaction, but don't broadcast it (when enabled, the local Keybase is not accessible) --fee-account string Fee account pays fees for the transaction instead of deducting from the signer --fees string Fees to pay along with transaction; eg: 10uatom --from string Name or address of private key with which to sign --gas string gas limit to set per-transaction; set to "auto" to calculate sufficient gas automatically (default 200000) --gas-adjustment float adjustment factor to be multiplied against the estimate returned by the tx simulation; if the gas limit is set manually this flag is ignored (default 1) --gas-prices string Gas prices in decimal format to determine the transaction fee (e.g. 0.1uatom) --generate-only Build an unsigned transaction and write it to STDOUT (when

enabled, the local Keybase only accessed when providing a key name) -h, --help help for create-validator --identity string The optional identity signature (ex. UPort or Keybase) --ip string The node's public IP. It takes effect only when used in combination with --generate-only --keyring-backend string Select keyring's backend (os|file|kwallet|pass|test|memory) (default "os") --keyring-dir string The client Keyring directory; if omitted, the default 'home' directory will be used --ledger Use a connected Ledger device --min-self-delegation string The minimum self delegation required on the validator --moniker string The validator's name --node string : to tendermint rpc interface for this chain (default "tcp://localhost:26657") --node-id string The node's ID --note string Note to add a description to the transaction (previously --memo) --offline Offline mode (does not allow any online functionality -o, --output string Output format (text|json) (default "json") --p2p-port string The node's public port. It takes effect only when used in combination with --generate-only --pubkey string The validator's Protobuf JSON encoded public key --security-contact string The validator's (optional) security contact email -s, --sequence uint The sequence number of the signing account (offline mode only) --sign-mode string Choose sign mode (direct|amino-json), this is an advanced feature --timeout-height uint Set a block timeout height to prevent the tx from being committed past a certain height --website string The validator's (optional) website -y, --yes Skip tx broadcasting prompt confirmation

Verify Your Validator

To verify your validator, use the following command:

seid

query

staking

validator [validator-addr] [flags]

Check if Your Validator is in the Active Set

seid

query

tendermint-validator-set

|

grep

"(seid

tendermint

show-validator

|

jq

-r

.key)" This command will display information about your validator, including its status and voting power.

Managing Your Validator

Edit Validator

You can edit your validator's details using:

seid

tx

staking

edit-validator [flags]

Flags

-a, --account-number uint The account number of the signing account (offline mode only) -b, --broadcast-mode string Transaction broadcasting mode (sync|async|block) (default "sync") --commission-rate string The new commission rate

percentage --details string The validator's (optional) details (default "[do-not-modify]") --dry-run ignore the --gas flag and perform a simulation of a transaction, but don't broadcast it (when enabled, the local Keybase is not accessible) --fee-account string Fee account pays fees for the transaction instead of deducting from the signer --fees string Fees to pay along with transaction; eg: 10uatom --from string Name or address of private key with which to sign --gas string gas limit to set per-transaction; set to "auto" to calculate sufficient gas automatically (default 200000) --gas-adjustment float adjustment factor to be multiplied against the estimate returned by the tx simulation; if the gas limit is set manually this flag is ignored (default 1) --gas-prices string Gas prices in decimal format to determine the transaction fee (e.g. 0.1uatom) --generate-only Build an unsigned transaction and write it to STDOUT (when enabled, the local Keybase only accessed when providing a key name) -h, --help help for edit-validator --identity string The (optional) identity signature (ex. UPort or Keybase) (default " [do-not-modify]") --keyring-backend string Select keyring's backend (os|file|kwallet|pass|test|memory) (default "os") --keyring-dir string The client Keyring directory; if omitted, the default 'home' directory will be used --ledger Use a connected Ledger device --min-self-delegation string The minimum self delegation required on the validator --new-moniker string The validator's name (default "[do-not-modify]") --node string : to tendermint rpc interface for this chain (default "tcp://localhost:26657") --note string Note to add a description to the transaction (previously --memo) --offline Offline mode (does not allow any online functionality -o, --output string Output format (text|json) (default "json") --security-contact string The validator's (optional) security contact email (default "[do-not-modify]") -s, --sequence uint The sequence number of the signing account (offline mode only) --sign-mode string Choose sign mode (direct|amino-json), this is an advanced feature --timeout-height uint Set a block timeout height to prevent the tx from being committed past a certain height --website string The validator's (optional) website (default "[do-not-modify]") -y, --yes Skip tx broadcasting prompt confirmation Last updated onMay 23, 2024 [Overview](#) [Security Best Practices](#)