How to set up a validator node

Pre-requisites

First of all, you need to have:

- [installed ↗](#)
- fetchd
- .
- [Configured and connected ↗](#)
- your validator to the desired network.

Also, it would be beneficial if you also explore the [CLI documentation ↗](#) to understand how to correctly interact with the Fetch Ledger.

Creating a validator

If you wish to create a validator, you will need to send a transaction to the network to stake your FET tokens. This process registers you as a validator, and if you are one of the chosen validators, you will start to produce blocks. If you want to create a validator using fetchd [Command Line Interface (CLI) ↗](#) you will need to send a create-validator transaction to the network as shown below:

fetchd

tx

staking

create-validator \ --amount= < the

amount

to

bon d

    \ --pubkey= (fetchd

tendermint

show-validator) \ --moniker= "choose a moniker" \ --chain-id= < chain_id

    \ --commission-rate= "0.10" \ --commission-max-rate= "0.20" \ --commission-max-change-rate= "0.01" \ --min-self-delegation= "" \ --gas

auto

--gas-adjustment

1.5

--gas-prices

"" \ --from= < key_name

    Dorado example

You should verify that you have some tokens available before trying to create a validator. The easiest way to do this is via the [CLI ↗](#) . Below, you can find an example of a typical CLI command that registers the node as running the validator:

fetchd

tx

staking

create-validator \ --amount=1000000000000000000atestfet \ --pubkey= (fetchd

tendermint

show-validator) \ --moniker= "my-test-validator" \ --chain-id=dorado-1 \ --commission-rate= "0.10" \ --commission-max-rate= "0.20" \ --commission-max-change-rate= "0.01" \ --min-self-delegation= "1000000000000000000" \ --gas

auto

--gas-adjustment

1.5

--gas-prices

1000000000 atestfet \ --from=test-key

Edit a validator configuration

It is possible that validators will need to adjust various settings about their nodes over the time. This can besimple things , such as the associated website for a validator, ormore consequential actions , like altering the commission rate. In either case, should a validator choose to make this update they would send anedit-validator transaction to the network.

These transactions can be created in a similar way to thecreate-validator transaction depicted above:

fetchd

tx

staking

edit-validator --moniker = "choose a moniker" \ --website = "https://fetch.ai" \ --details = "To infinity and beyond!" \ --chain-id =< chain_i d

    \ --commission-rate = "0.10" \ --from =< key_nam e

Unbonding a validator

Whenever and if a validator wants to stop being a validator for any reason, they can unbond some or all of their staked tokens.Unbonding refers to the process of withdrawing or removing a certain amount of staked tokens from a validator or a network after a defined waiting period .

This operation is carried out with the following CLI command:

fetchd

tx

staking

unbond \ < validator

operator

addres s

    \ < amount

to

remov e

    \ --from

< key

nam e

    An instance of this command is given in the example below:

fetchd

tx

staking

unbond \ fetchvaloper1jqqwdch3jmzlmj4tjfn67s3sqm9elkd3wrpspf \ 100000000000000000000 atestfet \ --gas

auto

--gas-adjustment

1.5

--gas-prices

1000000000 atestfet \ --from

test-key

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