

Helpful CLI commands

View all options:

```
console celestia-appd --help
```

 Start celestia-app

Usage: celestia-appd [command]

Available Commands: add-genesis-account Add a genesis account to genesis.json collect-gentxs Collect genesis txs and output a genesis.json file config Create or query an application CLI configuration file debug Tool for helping with debugging your application export Export state to JSON gentx Generate a genesis tx carrying a self delegation help Help about any command init Initialize private validator, p2p, genesis, and application configuration files keys Manage your application's keys migrate Migrate genesis to a specified target version query Querying subcommands rollback rollback tendermint state by one height rollback rollback cosmos-sdk and tendermint state by one height start Run the full node status Query remote node for status tendermint Tendermint subcommands tx Transactions subcommands validate-genesis validates the genesis file at the default location or at the location passed as an arg version Print the application binary version information celestia-appd --help Start celestia-app

Usage: celestia-appd [command]

Available Commands: add-genesis-account Add a genesis account to genesis.json collect-gentxs Collect genesis txs and output a genesis.json file config Create or query an application CLI configuration file debug Tool for helping with debugging your application export Export state to JSON gentx Generate a genesis tx carrying a self delegation help Help about any command init Initialize private validator, p2p, genesis, and application configuration files keys Manage your application's keys migrate Migrate genesis to a specified target version query Querying subcommands rollback rollback tendermint state by one height rollback rollback cosmos-sdk and tendermint state by one height start Run the full node status Query remote node for status tendermint Tendermint subcommands tx Transactions subcommands validate-genesis validates the genesis file at the default location or at the location passed as an arg version Print the application binary version information

Creating a wallet

```
sh celestia-appd
```

```
config
```

```
keyring-backend
```

```
test celestia-appd
```

```
config
```

```
keyring-backend
```

test keyring-backend configures the keyring's backend, where the keys are stored.

Options are:os|file|kwallet|pass|test|memory .

You can learn more on the [Cosmos documentation](#) or [Go Package documentation](#) .

Key management

```
sh
```

listing keys

```
celestia-appd
```

```
keys
```

```
list
```

adding keys

```
celestia-appd
```

```
keys
```

add

< KEY_NAME

deleting keys

celestia-appd

keys

delete

< KEY_NAME

renaming keys

celestia-appd

keys

rename

< CURRENT_KEY_NAME

< NEW_KEY_NAME

listing keys

celestia-appd

keys

list

adding keys

celestia-appd

keys

add

< KEY_NAME

deleting keys

celestia-appd

keys

delete

< KEY_NAME

renaming keys

celestia-appd

keys

rename

< CURRENT_KEY_NAME

< NEW_KEY_NAME

Importing and exporting keys

Import an encrypted and ASCII-armored private key into the local keybase.

```
sh celestia-appd
```

```
keys
```

```
import
```

< KEY_NAME

< KEY_FILE

```
celestia-appd
```

```
keys
```

```
import
```

< KEY_NAME

< KEY_FILE

Example usage:

```
sh celestia-appd
```

```
keys
```

```
import
```

```
amanda
```

```
./keyfile.txt celestia-appd
```

```
keys
```

```
import
```

```
amanda
```

./keyfile.txt Export a private key from the local keyring in encrypted and ASCII-armored format:

```
sh celestia-appd
```

```
keys
```

```
export
```

< KEY_NAME

you will then be prompted to set a password for the encrypted private key:

```
Enter
```

```
passphrase
```

```
to
```

```
encrypt
```

```
the
```

```
exported
```

```
key: celestia-appd
```

keys

export

< KEY_NAME

you will then be prompted to set a password for the encrypted private key:

Enter

passphrase

to

encrypt

the

exported

key: After you set a password, your encrypted key will be displayed.

Querying subcommands

Usage:

sh celestia-appd

query

< FLAG S

|

< COMMAND>

alias q

celestia-appd

q

< FLAG S

|

< COMMAND> celestia-appd

query

< FLAG S

|

< COMMAND>

alias q

celestia-appd

q

< FLAG S

|

< COMMAND> To see all options:

```
sh celestia-appd
```

```
q
```

```
--help celestia-appd
```

```
q
```

```
--help
```

Token management

Get token balances:

```
sh celestia-appd
```

```
q
```

```
bank
```

```
balances
```

```
< ADDRESS S
```

```
--node
```

```
< NODE_URI
```

```
    celestia-appd
```

```
q
```

```
bank
```

```
balances
```

```
< ADDRESS S
```

```
--node
```

```
< NODE_URI
```

```
    Example usage:
```

```
sh celestia-appd
```

```
q
```

```
bank
```

```
balances
```

```
celestia1czpgn3hdh9sodm06d5qk23xzgpq2uyc8ggdqgw
```

```
\ --node
```

```
https://rpc-mocha.pops.one celestia-appd
```

```
q
```

```
bank
```

```
balances
```

```
celestia1czpgn3hdh9sodm06d5qk23xzgpq2uyc8ggdqgw
```

```
\ --node
```

https://rpc-mocha.pops.one Transfer tokens from one wallet to another:

```
sh celestia-appd
```

```
tx
bank
send
< FROM_ADDRESS
< TO_ADDRESS
\ < amount
--node
< NODE_URI
--chain-id
< CHAIN_ID
    celestia-appd
```

```
tx
bank
send
< FROM_ADDRESS
< TO_ADDRESS
\ < amount
--node
< NODE_URI
--chain-id
< CHAIN_ID
```

Example usage:

```
sh celestia-appd
tx
bank
send
< FROM_ADDRESS
< TO_ADDRESS
\ 19000000 utia
--node
https://rpc-mocha.pops.one/
--chain-id
mocha celestia-appd
tx
bank
send
< FROM_ADDRESS
```

< TO_ADDRES S

\ 19000000 utia

--node

https://rpc-mocha.pops.one/

--chain-id

mocha To see options:

sh celestia-appd

tx

bank

send

--help celestia-appd

tx

bank

send

--help

Governance

Governance proposals on Celestia are limited as there are no text proposals, upgrades occur via social consensus, and some params are not modifiable. However, one can submit governance proposals to change certain parameters and spend community funds. More detailed information on this topic can be found in the [cosmos-sdk documentation for submitting proposals](#) , the list of [parameter defaults in the specs](#) , and the [x/paramfilter module specs](#) .

Viewing the available proposals can be done with the query command:

sh celestia-appd

q

gov

proposals celestia-appd

q

gov

proposals There are four options when voting "yes", "no", "no_with_veto" and "abstain". The "no_with_veto" vote is different from the "no" vote in that the submitter of the proposer's deposit will get burned, and a minority of stake (1/3) can stop a proposal that might otherwise pass quorum. You can use those options to vote on a governance proposal with the following command:

sh celestia-appd

tx

gov

vote

< proposal

i d

< optio n

\ --from

< walle t

```

--chain-id
< chain-i d
    celestia-appd
tx
gov
vote
< proposal
i d
< optio n
\ --from
< walle t
--chain-id
< chain-i d

```

To submit a proposal, there are two commands that can be used. The first is the legacy command, which is the recommended way to submit a proposal.

To change the max validators to 105, one would first save this JSON file:

```

json { "title" : "Staking Param Change", "description" : "Update max validators", "changes" : [ { "subspace" : "staking", "key"
: "MaxValidators", "value" : 105 } ], "deposit" : "1000000000utia" } { "title" : "Staking Param Change", "description" : "Update
max validators", "changes" : [ { "subspace" : "staking", "key" : "MaxValidators", "value" : 105 } ], "deposit" :
"1000000000utia" } Then you can submit the proposal with:

```

```

sh celestia-appd
tx
gov
submit-legacy-proposal
\ parameter-change
< path
to
json
fil e
\ --from
< walle t
--chain-id
< chain-i d
    celestia-appd
tx
gov
submit-legacy-proposal
\ parameter-change
< path

```


to
json
file
\\ --from
< wallet
--chain-id
< chain-id

If we want to use the newer api, we can submit a proposal by first saving the sdk.Msg proposal in the json encoded format to a json.

```
json { "messages" : [ { "@type" : "/cosmos.gov.v1beta1.MsgSubmitProposal" , "content" : { "@type" :  
"/cosmos.params.v1beta1.ParameterChangeProposal" , "title" : "title" , "description" : "description" , "changes" : [ {  
"subspace" : "staking" , "key" : "MaxValidators" , "value" : "103" } ] } , "initial_deposit" : [ { "denom" : "utia" , "amount" :  
"1000000000" } ] , "proposer" : "celestia10d07y265gmmuv4z0w9aw880jnsr700jtgz4v7" } ] } { "messages" : [ { "@type" :  
"/cosmos.gov.v1beta1.MsgSubmitProposal" , "content" : { "@type" : "/cosmos.params.v1beta1.ParameterChangeProposal" ,  
"title" : "title" , "description" : "description" , "changes" : [ { "subspace" : "staking" , "key" : "MaxValidators" , "value" : "103" } ]  
} , "initial_deposit" : [ { "denom" : "utia" , "amount" : "1000000000" } ] , "proposer" :  
"celestia10d07y265gmmuv4z0w9aw880jnsr700jtgz4v7" } ] } }
```

Note that the proposer here must be the gov module account.
That account can be found by using this command:

```
sh celestia-appd  
q  
auth  
module-account  
gov celestia-appd
```

```
q  
auth  
module-account  
gov
```

Then one can submit the proposal with:

```
sh celestia-appd  
tx  
gov  
submit-proposal
```

```
< path  
to  
json  
file  
\\ --from  
< wallet  
--chain-id  
< chain-id
```

celestia-appd

tx

```
gov
submit-proposal

< path

to

json
file

\ --from

< wallet

--chain-id

< chain-id
```

Community Pool

A percentage of the block rewards are allocated to the community pool. Community members can submit governance proposals to spend the community pool funds, and token holders can vote on these proposals. The proposals to spend are arbitrary in nature in that they can only contain text and some address to send funds to. To view the community pool balance, use the following command:

```
sh celestia-appd

q

distribution

community-pool celestia-appd

q

distribution
```

community-pool To submit a proposal to spend the community pool funds, first create a JSON file that contains the proposal.

```
json { "title" : "Community Pool Spend" , "description" : "Fund an open source project." , "recipient" :
"celestia17adsjkuecgjheugrdrwdqv9uh3qkrfmj9xzawx" , "amount" : "100000000000utia" , "deposit" : "1000000000utia" } {
"title" : "Community Pool Spend" , "description" : "Fund an open source project." , "recipient" :
"celestia17adsjkuecgjheugrdrwdqv9uh3qkrfmj9xzawx" , "amount" : "100000000000utia" , "deposit" : "1000000000utia" } The
json file can be submitted using a similar proposal submission command as above:
```

```
sh celestia-appd

tx

gov

submit-legacy-proposal

\ community-pool-spend

< path

to

json
file

\ --from

< wallet

celestia-appd

tx
```

```
gov
submit-legacy-proposal
\ community-pool-spend
< path
to
json
file
\ --from
< wallet
```

Claim validator rewards

You can claim your validator rewards with the following command:

```
sh celestia-appd
tx
distribution
withdraw-rewards
< validator
valoper
\ --commission
--from= < validator
wallet
--chain-id
< chain-id
\ --gas
auto
-y celestia-appd
tx
distribution
withdraw-rewards
< validator
valoper
\ --commission
--from= < validator
wallet
--chain-id
< chain-id
\ --gas
auto
```

-y

Delegate & undelegate tokens

You can delegate your tokens to a validator with the following command:

```
sh celestia-appd
```

```
tx
```

```
staking
```

```
delegate
```

```
< validator
```

```
value r
```

```
< amount
```

```
    \ --from
```

```
< wallet
```

```
--chain-id
```

```
< chain-id
```

```
    celestia-appd
```

```
tx
```

```
staking
```

```
delegate
```

```
< validator
```

```
value r
```

```
< amount
```

```
    \ --from
```

```
< wallet
```

```
--chain-id
```

```
< chain-id
```

You can undelegate tokens to a validator with the `unbond` command:

```
sh celestia-appd
```

```
tx
```

```
staking
```

```
unbond
```

```
< validator
```

```
value r
```

```
< amount
```

```
    \ --from
```

```
< wallet
```

```
--chain-id
```

```
< chain-id
```

```
celestia-appd
```

```
tx
```

```
staking
```

```
unbond
```

```
< validator
```

```
valope r
```

```
< amoun t
```

```
\ --from
```

```
< walle t
```

```
--chain-id
```

```
< chain-i d
```

Unjailing the validator

You can unjail your validator with the following command:

```
sh celestia-appd
```

```
tx
```

```
slashing
```

```
unjail
```

```
--from
```

```
< validator
```

```
walle t
```

```
\ --chain-id
```

```
< chain-i d
```

```
--gas
```

```
auto
```

```
-y celestia-appd
```

```
tx
```

```
slashing
```

```
unjail
```

```
--from
```

```
< validator
```

```
walle t
```

```
\ --chain-id
```

```
< chain-i d
```

```
--gas
```

```
auto
```

```
-y
```

How to export logs with SystemD

You can export your logs if you are running a SystemD service with the following command:

```
sh sudo
journalctl
-u
< your
systemd
servic e
-S
yesterday
node_logs.txt sudo
journalctl
-u
< your
systemd
servic e
-S
today
node_logs.txt
```

This command outputs the last 1 million lines!

```
sudo
journalctl
-u
< your
systemd
servic e
-n
1000000
node_logs.txt sudo
journalctl
-u
< your
systemd
servic e
-S
yesterday
node_logs.txt sudo
journalctl
```

```
-u
< your
systemd
service
-S
today
node_logs.txt
```

This command outputs the last 1 million lines!

```
sudo
journalctl
-u
< your
systemd
service
-n
1000000
node_logs.txt
```

Signing genesis for a new network

You can first run the following commands:

```
sh VALIDATOR_NAME = validator1 CHAIN_ID = testnet celestia-appd
```

```
init VALIDATOR_NAME --chain-id CHAIN_ID MONIKER = validator_name VALIDATOR_NAME = validator1 CHAIN_ID = testnet celestia-appd
```

init VALIDATOR_NAME --chain-id CHAIN_ID MONIKER = validator_name Next create a wallet:

```
sh KEY_NAME = validator celestia-appd
```

```
keys
```

```
add KEY_NAME KEY_NAME = validator celestia-appd
```

```
keys
```

add KEY_NAME Create or assign an EVM address:

```
sh EVM_ADDRESS =< EVM_ADDRES S
```

```
EVM_ADDRESS =< EVM_ADDRES S
```

Then add genesis account:

```
sh CELES_AMOUNT = "5000100000000utia" celestia-appd
```

```
add-genesis-account KEY_NAME CELES_AMOUNT CELES_AMOUNT = "5000100000000utia" celestia-appd
```

add-genesis-account KEY_NAME CELES_AMOUNT Then generate your gentx:

```
sh STAKING_AMOUNT = 5000000000000 utia celestia-appd
```

```
gentx KEY_NAME STAKING_AMOUNT --chain-id CHAIN_ID \ --pubkey= ( celestia-appd tendermint show-validator)
\ --moniker= MONIKER
```

\ --commission-rate=0.1

\ --commission-max-rate=0.2

\ --commission-max-change-rate=0.01

\ --min-self-delegation=1

\ --evm-address= EVM_ADDRESS

\ STAKING_AMOUNT = 5000000000000 utia celestia-appd

gentx KEY_NAME STAKING_AMOUNT --chain-id CHAIN_ID \ --pubkey= (celestia-appd tendermint show-validator)

\ --moniker= MONIKER

\ --commission-rate=0.1

\ --commission-max-rate=0.2

\ --commission-max-change-rate=0.01

\ --min-self-delegation=1

\ --evm-address= EVM_ADDRESS

\ You can then share your gentx JSON file on [the networks repo](#) in the respective network directory you are participating in.
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