

# Multisig

Celestia inherits support for multisig accounts from the Cosmos SDK. Multisig accounts behave similarly to regular accounts with the added requirement that a threshold of signatures is needed to authorize a transaction.

Multisig accounts can be created from the [command line](#) or using a graphical interface such as [Keplr](#).

## Command line

```
bash
```

```
#!/bin/sh
```

**Prerequisite: prior to running this script, start a single node devnet with `./scripts/single-node.sh`**

## CHAIN\_ID

```
"private" KEY_NAME = "validator" KEYRING_BACKEND = "test" BROADCAST_MODE = "block"
```

## Create 3 test keys

```
celestia-appd
```

```
keys
```

```
add
```

```
test1 celestia-appd
```

```
keys
```

```
add
```

```
test2 celestia-appd
```

```
keys
```

```
add
```

```
test3
```

## Create the multisig account

```
celestia-appd
```

```
keys
```

```
add
```

```
multisig
```

```
\ --multisig
```

```
test1,test2,test3
```

```
\ --multisig-threshold
```

```
2
```

**Send some funds from the validator account to the**

# multisig account

celestia-appd

tx

bank

send VALIDATOR MULTISIG 100000 utia

\ --from VALIDATOR \ --fees

1000 utia

\ --chain-id CHAIN\_ID \ --keyring-backend KEYRING\_BACKEND \ --broadcast-mode BROADCAST\_MODE \ --yes

**Send some funds from the multisig account to the validator account.**

**Note this transaction will need to be signed by at least 2 of the 3 test accounts.**

celestia-appd

tx

bank

send MULTISIG VALIDATOR 1 utia

\ --from MULTISIG \ --fees

1000 utia

\ --chain-id CHAIN\_ID \ --keyring-backend KEYRING\_BACKEND \ --generate-only

unsignedTx.json

## Sign from test1 and test2

celestia-appd

tx

sign

unsignedTx.json

\ --multisig MULTISIG \ --from

test1

\ --output-document

test1sig.json

\ --chain-id CHAIN\_ID celestia-appd

tx

sign

unsignedTx.json

\ --multisig MULTISIG \ --from

```
test2
\ --output-document
test2sig.json
\ --chain-id CHAIN_ID
```

## Generate the final signed transaction

```
celestia-appd
tx
multisign
unsignedTx.json
multisig
\ test1sig.json
test2sig.json
\ --output-document
signedTx.json
\ --chain-id CHAIN_ID
```

## !/bin/sh

**Prerequisite: prior to running this script, start a single node devnet with `./scripts/single-node.sh`**

## CHAIN\_ID

"private" KEY\_NAME = "validator" KEYRING\_BACKEND = "test" BROADCAST\_MODE = "block"

## Create 3 test keys

```
celestia-appd
keys
add
test1 celestia-appd
keys
add
test2 celestia-appd
keys
add
test3
```

## Create the multisig account

```
celestia-appd
```

```
keys
add
multisig
\ --multisig
test1,test2,test3
\ --multisig-threshold
2
```

## **Send some funds from the validator account to the multisig account**

```
celestia-appd
tx
bank
send VALIDATOR MULTISIG 100000 utia
\ --from VALIDATOR \ --fees
1000 utia
\ --chain-id CHAIN_ID \ --keyring-backend KEYRING_BACKEND \ --broadcast-mode BROADCAST_MODE \ --yes
```

## **Send some funds from the multisig account to the validator account.**

**Note this transaction will need to be signed by at least 2 of the 3 test accounts.**

```
celestia-appd
tx
bank
send MULTISIG VALIDATOR 1 utia
\ --from MULTISIG \ --fees
1000 utia
\ --chain-id CHAIN_ID \ --keyring-backend KEYRING_BACKEND \ --generate-only
unsignedTx.json
```

## **Sign from test1 and test2**

```
celestia-appd
tx
sign
unsignedTx.json
\ --multisig MULTISIG \ --from
```

```
test1
\ --output-document
test1sig.json
\ --chain-id CHAIN_ID celestia-appd
tx
sign
unsignedTx.json
\ --multisig MULTISIG \ --from
test2
\ --output-document
test2sig.json
\ --chain-id CHAIN_ID
```

## Generate the final signed transaction

```
celestia-appd
tx
multisign
unsignedTx.json
multisig
\ test1sig.json
test2sig.json
\ --output-document
signedTx.json
\ --chain-id CHAIN_ID
```

## Resources

- <https://docs.cosmos.network/main/user/run-node/multisig-guide#step-by-step-guide-to-multisig-transactions>
- <https://figment.io/insights/how-to-multi-sig-on-cosmos/>
- <https://github.com/aura-nw/Aura-Safe>
- <https://github.com/informalsystems/multisig> [\[ \[ Edit this page on GitHub \]](#) Last updated: [Previous page](#) [Wallets in celestia-app](#) [Next page](#) [Create a vesting account](#) [\[](#)