shaddy@DESKTOP-5AP2IOD:~$ ssh root@45.33.99.85

root@45.33.99.85's password:

Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-47-generic x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

System information as of Wed Nov 16 08:50:06 AM UTC 2022

System load: 0.6396484375

Usage of /: 42.3% of 24.04GB

Memory usage: 73%

Swap usage: 64%

Processes: 140

Users logged in: 1

IPv4 address for br-5747f60e7020: 172.18.0.1

IPv4 address for docker0: 172.17.0.1

IPv4 address for eth0: 45.33.99.85

IPv6 address for eth0: 2600:3c02::f03c:93ff:fe42:c550

30 updates can be applied immediately.

To see these additional updates run: apt list --upgradable

\*\*\* System restart required \*\*\*

Last login: Wed Nov 16 08:22:51 2022 from 197.237.107.79

root@localhost:~# ls

sandbox

root@localhost:~# cd sandbox

root@localhost:~/sandbox# ls

config config.betanet config.devnet config.nightly config.source docker-compose.yml images README.md sandbox.log

config.beta config.dev config.mainnet config.release config.testnet genesis passphrase.teal sandbox utils

root@localhost:~/sandbox# rm passphrase.teal

root@localhost:~/sandbox# ./sandbox up

Bringing up existing sandbox: 'release'

see sandbox.log for detailed progress, or use -v.

\* docker containers started!

\* waiting for services to initialize.

\* services ready!

algod version

12885622786

3.11.2.stable [rel/stable] (commit #99b37ac0)

go-algorand is licensed with AGPLv3.0

source code available at https://github.com/algorand/go-algorand

Indexer version

2.14.2-dev.unknown compiled at 2022-11-12T16:46:01+0000 from git hash c2d2a88c1c0d60edfc13f886e642e3369f048668 (modified)

Postgres version

postgres (PostgreSQL) 13.9

algod - goal node status

Last committed block: 91815

Time since last block: 3.2s

Sync Time: 0.0s

Last consensus protocol: https://github.com/algorandfoundation/specs/tree/433d8e9a7274b6fca703d91213e05c7e6a589e69

Next consensus protocol: https://github.com/algorandfoundation/specs/tree/433d8e9a7274b6fca703d91213e05c7e6a589e69

Round for next consensus protocol: 91816

Next consensus protocol supported: true

Last Catchpoint:

Genesis ID: sandnet-v1

Genesis hash: gEe6TmkiEIKij2JfT/BsrczduewnB31zR2wD0ihz8Js=

indexer - health

{

"data": {

"migration-required": false

},

"db-available": true,

"is-migrating": false,

"message": "91815",

"round": 91815,

"version": "(unknown version)"

}

Available accounts

~$ ./sandbox goal account list

[offline] BSQEC5NUL7P6U7BRE2CFEG5HGZHX6TZVXJKEJDKZNEKF5EWBT5NGPY4M3Y BSQEC5NUL7P6U7BRE2CFEG5HGZHX6TZVXJKEJDKZNEKF5EWBT5NGPY4M3Y 4009180000000000 microAlgos

[online] 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU 4009179913197715 microAlgos

[offline] 52LWPDN4QTQORPJRSGULJORWDMWZJGOUMM2H3EZ4BCANX7UTBJA6GMYQEQ 52LWPDN4QTQORPJRSGULJORWDMWZJGOUMM2H3EZ4BCANX7UTBJA6GMYQEQ 1002295132621281 microAlgos

Example command to send between two accounts:

~$ ./sandbox goal clerk send -a 123456789 -f 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU -t 52LWPDN4QTQORPJRSGULJORWDMWZJGOUMM2H3EZ4BCANX7UTBJA6GMYQEQ

Soon after sending the transaction it will appear in indexer:

~$ curl "localhost:8980/v2/transactions?pretty"

root@localhost:~/sandbox# ./sandbox goal account new

Created new account with address RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM

root@localhost:~/sandbox# ./sandbox goal ccount list

unknown command "ccount" for "goal"

Error: unknown command "ccount" for "goal"

Usage:

goal [flags]

goal [command]

Available Commands:

account Control and manage Algorand accounts

app Manage applications

asset Manage assets

clerk Provides the tools to control transactions

completion Shell completion helper

help Help about any command

kmd Interact with kmd, the key management daemon

ledger Access ledger-related details

license Display license information

logging Control and manage Algorand logging

network Create and manage private, multi-node, locally-hosted networks

node Manage a specified algorand node

protocols

report

version The current version of the Algorand daemon (algod)

wallet Manage wallets: encrypted collections of Algorand account keys

Flags:

-d, --datadir stringArray Data directory for the node

-h, --help help for goal

-k, --kmddir string Data directory for kmd

-v, --version Display and write current build version and exit

Use "goal [command] --help" for more information about a command.

root@localhost:~/sandbox# ./sandbox goal account balance

Error: required flag(s) "address" not set

Usage:

goal account balance [flags]

Flags:

-a, --address string Account address to retrieve balance (required)

-h, --help help for balance

Global Flags:

-d, --datadir stringArray Data directory for the node

-k, --kmddir string Data directory for kmd

-w, --wallet string Set the wallet to be used for the selected operation

required flag(s) "address" not set

root@localhost:~/sandbox# ./sandbox goal account balance -a RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM

0 microAlgos

root@localhost:~/sandbox# ./sandbox goal asset send

Error: required flag(s) "amount", "to" not set

Usage:

goal asset send [flags]

Flags:

-a, --amount uint The amount to be transferred (required), in base units of the asset.

--asset string Unit name of the asset being transferred

--assetid uint ID of the asset being transferred

--clawback string Address to issue a clawback transaction from (defaults to no clawback)

-c, --close-to string Close asset account and send remainder to this address

--creator string Account address for asset creator

--dryrun-accounts strings additional accounts to include into dryrun request obj

--dryrun-dump Dump in dryrun format acceptable by dryrun REST api

--dryrun-dump-format string Dryrun dump format: json, msgp (default "json")

--fee uint The transaction fee (automatically determined by default), in microAlgos

--firstvalid uint The first round where the transaction may be committed to the ledger

-f, --from string Account address to send the money from (if not specified, uses default account)

-h, --help help for send

--lastvalid uint The last round where the transaction may be committed to the ledger

-x, --lease string Lease value (base64, optional): no transaction may also acquire this lease until lastvalid

-N, --no-wait Don't wait for transaction to commit

-n, --note string Note text (ignored if --noteb64 used also)

--noteb64 string Note (URL-base64 encoded)

-o, --out string Write transaction to this file

-s, --sign Use with -o to indicate that the dumped transaction should be signed

-S, --signer string Address of key to sign with, if different from transaction "from" address due to rekeying

-t, --to string Address to send to money to (required)

--validrounds uint The number of rounds for which the transaction will be valid

Global Flags:

-d, --datadir stringArray Data directory for the node

-k, --kmddir string Data directory for kmd

-w, --wallet string Set the wallet to be used for the selected operation

required flag(s) "amount", "to" not set

root@localhost:~/sandbox# ./sandbox goal clerk send -a 577777 -f 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU -t RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM

Sent 577777 MicroAlgos from account 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU to address RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM, transaction ID: 4RT6ALPXLDHF75ZPYFGYP67MMVYQNASEXQNBFX3X3V

TIO43V3W7Q. Fee set to 1000

Transaction 4RT6ALPXLDHF75ZPYFGYP67MMVYQNASEXQNBFX3X3VTIO43V3W7Q still pending as of round 91994

Transaction 4RT6ALPXLDHF75ZPYFGYP67MMVYQNASEXQNBFX3X3VTIO43V3W7Q still pending as of round 91995

Transaction 4RT6ALPXLDHF75ZPYFGYP67MMVYQNASEXQNBFX3X3VTIO43V3W7Q committed in round 91996

root@localhost:~/sandbox# ./sandbox goal account balance -a RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM

577777 microAlgos

root@localhost:~/sandbox# goal clerk dryrun -t out.txn

Command 'goal' not found, did you mean:

command 'gcal' from deb gcal (4.1-3.1)

command 'gol' from deb growl-for-linux (0.8.5-8build1)

Try: apt install <deb name>

root@localhost:~/sandbox# ./sandbox goal clerk dryrun -t out.txn

Cannot read file out.txn: open out.txn: no such file or directory

root@localhost:~/sandbox# ./sandbox goal clerk dryrun

Error: required flag(s) "txfile" not set

Usage:

goal clerk dryrun [flags]

Flags:

--dryrun-accounts strings additional accounts to include into dryrun request obj

--dryrun-dump Dump in dryrun format acceptable by dryrun REST api instead of running

--dryrun-dump-format string Dryrun dump format: json, msgp (default "json")

-h, --help help for dryrun

-o, --outfile string Filename for writing dryrun state object

-P, --proto string consensus protocol version id string

-t, --txfile string transaction or transaction-group to test

Global Flags:

-d, --datadir stringArray Data directory for the node

-k, --kmddir string Data directory for kmd

-w, --wallet string Set the wallet to be used for the selected operation

required flag(s) "txfile" not set

root@localhost:~/sandbox# ./sandbox goal clerk dryrun-accounts RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM

Error: unknown command "dryrun-accounts" for "goal clerk"

Usage:

goal clerk [flags]

goal clerk [command]

Available Commands:

compile Compile a contract program

dryrun Test a program offline

dryrun-remote Test a program with algod's dryrun REST endpoint

group Group transactions together

inspect Print a transaction file

multisig Provides tools working with multisig transactions

rawsend Send raw transactions

send Send money to an address

sign Sign a transaction file

split Split a file containing many transactions into one transaction per file

tealsign Sign data to be verified in a TEAL program

Flags:

-h, --help help for clerk

-w, --wallet string Set the wallet to be used for the selected operation

Global Flags:

-d, --datadir stringArray Data directory for the node

-k, --kmddir string Data directory for kmd

Use "goal clerk [command] --help" for more information about a command.

unknown command "dryrun-accounts" for "goal clerk"

root@localhost:~/sandbox# ./sandbox goal clerk --dryrun-accounts RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM

Error: unknown flag: --dryrun-accounts

Usage:

goal clerk [flags]

goal clerk [command]

Available Commands:

compile Compile a contract program

dryrun Test a program offline

dryrun-remote Test a program with algod's dryrun REST endpoint

group Group transactions together

inspect Print a transaction file

multisig Provides tools working with multisig transactions

rawsend Send raw transactions

send Send money to an address

sign Sign a transaction file

split Split a file containing many transactions into one transaction per file

tealsign Sign data to be verified in a TEAL program

Flags:

-h, --help help for clerk

-w, --wallet string Set the wallet to be used for the selected operation

Global Flags:

-d, --datadir stringArray Data directory for the node

-k, --kmddir string Data directory for kmd

Use "goal clerk [command] --help" for more information about a command.

unknown flag: --dryrun-accounts

root@localhost:~/sandbox# ./sandbox goal clerk -w RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM

Collection of commands to support the management of transaction information.

Usage:

goal clerk [flags]

goal clerk [command]

Available Commands:

compile Compile a contract program

dryrun Test a program offline

dryrun-remote Test a program with algod's dryrun REST endpoint

group Group transactions together

inspect Print a transaction file

multisig Provides tools working with multisig transactions

rawsend Send raw transactions

send Send money to an address

sign Sign a transaction file

split Split a file containing many transactions into one transaction per file

tealsign Sign data to be verified in a TEAL program

Flags:

-h, --help help for clerk

-w, --wallet string Set the wallet to be used for the selected operation

Global Flags:

-d, --datadir stringArray Data directory for the node

-k, --kmddir string Data directory for kmd

Use "goal clerk [command] --help" for more information about a command.

root@localhost:~/sandbox# ./sandbox gola clerk compile passphrase.teal

sandbox commands:

up [config] -> start the sandbox environment.

down -> tear down the sandbox environment.

reset -> reset the containers to their initial state.

clean -> stops and deletes containers and data directory.

test -> runs some tests to demonstrate usage.

enter [algod||indexer||indexer-db]

-> enter the sandbox container.

version -> print binary versions.

copyTo <file> -> copy <file> into the algod. Useful for offline transactions, offline LogicSigs & TEAL work.

copyFrom <file> -> copy <file> from the algod. Useful for offline transactions, offline LogicSigs & TEAL work.

algorand commands:

logs -> stream algorand logs with the carpenter utility.

status -> get node status.

goal (args) -> run goal command like 'goal node status'.

tealdbg (args) -> run tealdbg command.

special flags for 'up' command:

-v|--verbose -> display verbose output when starting standbox.

-s|--skip-fast-catchup -> skip catchup when connecting to real network.

-i|--interactive -> start docker compose in interactive mode.

root@localhost:~/sandbox# ./sandbox goal clerk compile passphrase.teal

passphrase.teal: open passphrase.teal: no such file or directory

root@localhost:~/sandbox# ls

config config.betanet config.devnet config.nightly config.source docker-compose.yml images sandbox utils

config.beta config.dev config.mainnet config.release config.testnet genesis README.md sandbox.log

root@localhost:~/sandbox# cat > passphrase.teal

txn Fee

int 10000

<=

arg 0

len

int 73

==

&&

arg 0

sha256

byte base64 30AT2gOReDBdJmLBO/DgvjC6hIXgACecTpFDcP1bJHU=

==

&&

txn CloseRemainderTo

txn Receiver

==

&&

root@localhost:~/sandbox# ./sandbox copy passphrase.teal

sandbox commands:

up [config] -> start the sandbox environment.

down -> tear down the sandbox environment.

reset -> reset the containers to their initial state.

clean -> stops and deletes containers and data directory.

test -> runs some tests to demonstrate usage.

enter [algod||indexer||indexer-db]

-> enter the sandbox container.

version -> print binary versions.

copyTo <file> -> copy <file> into the algod. Useful for offline transactions, offline LogicSigs & TEAL work.

copyFrom <file> -> copy <file> from the algod. Useful for offline transactions, offline LogicSigs & TEAL work.

algorand commands:

logs -> stream algorand logs with the carpenter utility.

status -> get node status.

goal (args) -> run goal command like 'goal node status'.

tealdbg (args) -> run tealdbg command.

special flags for 'up' command:

-v|--verbose -> display verbose output when starting standbox.

-s|--skip-fast-catchup -> skip catchup when connecting to real network.

-i|--interactive -> start docker compose in interactive mode.

root@localhost:~/sandbox# ./sandbox copyTo passphrase.teal

Now copying passphrase.teal to Algod container in /opt/data/passphrase.teal

root@localhost:~/sandbox# ./sandbox copyFrom passphrase.teal

Now copying /opt/data/passphrase.teal from Algod container to ./

root@localhost:~/sandbox# ./sandbox goal clerk compile passphrase.teal

passphrase.teal: RZ2CUMV2VG3NCVFEVUVHVBYQUABQIBWAT3AC736Y6YL7PPDNAD7K3TVNAI

root@localhost:~/sandbox# ./sandbox goal account balance -a RZ2CUMV2VG3NCVFEVUVHVBYQUABQIBWAT3AC736Y6YL7PPDNAD7K3TVNAI

0 microAlgos

root@localhost:~/sandbox# ./sandbox goal account balance -a RZ2CUMV2VG3NCVFEVUVHVBYQUABQIBWAT3AC736Y6YL7PPDNAD7K3TVNAI -d ~/node/data

could not make cachedir: mkdir /root/node/data/goal.cache: no such file or directory

root@localhost:~/sandbox# ./sandbox goal account list

[offline] BSQEC5NUL7P6U7BRE2CFEG5HGZHX6TZVXJKEJDKZNEKF5EWBT5NGPY4M3Y BSQEC5NUL7P6U7BRE2CFEG5HGZHX6TZVXJKEJDKZNEKF5EWBT5NGPY4M3Y 4009224000000000 microAlgos

[offline] Unnamed-0 RSJ5IJEUIQMFUFU3Q6ENKACICOY57FSOTN5KEQ3AJ3O65NV7TCEXGEYCVM 577777 microAlgos \*Default

[online] 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU 4009224013646085 microAlgos

[offline] 52LWPDN4QTQORPJRSGULJORWDMWZJGOUMM2H3EZ4BCANX7UTBJA6GMYQEQ 52LWPDN4QTQORPJRSGULJORWDMWZJGOUMM2H3EZ4BCANX7UTBJA6GMYQEQ 1002306157823634 microAlgos

root@localhost:~/sandbox# ./sandbox goal clerk send -a 577777 -f 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU -t RZ2CUMV2VG3NCVFEVUVHVBYQUABQIBWAT3AC736Y6YL7PPDNAD7K3TVNAI

Sent 577777 MicroAlgos from account 2PIXVZRYHDFXSFFCAE7M4KC6JJL2HQTVKLVEDCDUXG2WFGC7IU6RKRKKLU to address RZ2CUMV2VG3NCVFEVUVHVBYQUABQIBWAT3AC736Y6YL7PPDNAD7K3TVNAI, transaction ID: 35SZV7AOS3R5QX3PHA4LGIKWSQZNREMSD7NTPNRSSI

GZ62Q5MGOQ. Fee set to 1000

Transaction 35SZV7AOS3R5QX3PHA4LGIKWSQZNREMSD7NTPNRSSIGZ62Q5MGOQ still pending as of round 92303

Transaction 35SZV7AOS3R5QX3PHA4LGIKWSQZNREMSD7NTPNRSSIGZ62Q5MGOQ still pending as of round 92304

Transaction 35SZV7AOS3R5QX3PHA4LGIKWSQZNREMSD7NTPNRSSIGZ62Q5MGOQ committed in round 92305

root@localhost:~/sandbox# echo -n "weather comfort erupt verb pet range endorse exhibit tree brush crane man" | base64

d2VhdGhlciBjb21mb3J0IGVydXB0IHZlcmIgcGV0IHJhbmdlIGVuZG9yc2UgZXhoaWJpdCB0cmVl

IGJydXNoIGNyYW5lIG1hbg==

root@localhost:~/sandbox# ./sandbox goal clerk send -a 30000 --from-program passphrase.teal -c STF6TH6PKINM4CDIQHNSC7QEA4DM5OJKKSACAPWGTG776NWSQOMAYVGOQE --argb64 d2VhdGhlciBjb21mb3J0IGVydXB0IHZlcmIgcGV0IHJhbmdlIGVuZG9yc2Ug

ZXhoaWJpdCB0cmVlIGJydXNoIGNyYW5lIG1hbg== -t STF6TH6PKINM4CDIQHNSC7QEA4DM5OJKKSACAPWGTG776NWSQOMAYVGOQE

Sent 30000 MicroAlgos from account RZ2CUMV2VG3NCVFEVUVHVBYQUABQIBWAT3AC736Y6YL7PPDNAD7K3TVNAI to address STF6TH6PKINM4CDIQHNSC7QEA4DM5OJKKSACAPWGTG776NWSQOMAYVGOQE, transaction ID: IMGSUV274SWEGCHEWJUO27ZUV7UNQPS2UK2PVO4ESI3

MMJX4UMJA. Fee set to 1000

Transaction IMGSUV274SWEGCHEWJUO27ZUV7UNQPS2UK2PVO4ESI3MMJX4UMJA still pending as of round 92328

Transaction IMGSUV274SWEGCHEWJUO27ZUV7UNQPS2UK2PVO4ESI3MMJX4UMJA still pending as of round 92329

Transaction IMGSUV274SWEGCHEWJUO27ZUV7UNQPS2UK2PVO4ESI3MMJX4UMJA committed in round 92330

root@localhost:~/sandbox# ./sandbox goal clerk dryrun -t out.txn

Cannot read file out.txn: open out.txn: no such file or directory

root@localhost:~/sandbox#