Addresses

Node2: 1518jrMCgztVPvjMFsPgnZ1XzT3B5H3ELj7Nsh

Node1: 1a8878MdLbyXFMhxjYoRE3krxupBjxzHTT6LMa

Microsoft Windows [Version 10.0.18363.1016]

(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\yasin>ssh -i "C:\Users\yasin\OneDrive\Documents\Deep Learning Project\node-2.pem" ubuntu@3.216.111.150

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86\_64)

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

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

\* Support: https://ubuntu.com/advantageWelcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86\_64)

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

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

System information as of Sat Aug 15 00:18:32 UTC 2020

System load: 0.0 Processes: 99

Usage of /: 20.5% of 7.69GB Users logged in: 1

Memory usage: 25% IP address for eth0: 172.31.55.61

Swap usage: 0%

\* Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with

sudo snap install microk8s --channel=1.19/candidate --classic

https://microk8s.io/ has docs and details.

\* Canonical Livepatch is available for installation.

- Reduce system reboots and improve kernel security. Activate at:

https://ubuntu.com/livepatch

0 packages can be updated.

0 updates are security updates.

Last login: Fri Aug 14 23:01:36 2020 from 68.98.129.9

ubuntu@ip-172-31-55-61:~$ multichaind chain2@172.31.40.33:9587 stop

MultiChain 2.0.2 Daemon (Community Edition, latest protocol 20010)

IO error: lock /home/ubuntu/.multichain/chain2/permissions.db/LOCK: Resource temporarily unavailable

ERROR: Couldn't initialize permission database for blockchain chain2. Probably multichaind for this blockchain is already running. Exiting...

ubuntu@ip-172-31-55-61:~$ multichaind chain2 stop

MultiChain 2.0.2 Daemon (Community Edition, latest protocol 20010)

IO error: lock /home/ubuntu/.multichain/chain2/permissions.db/LOCK: Resource temporarily unavailable

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ubuntu@ip-172-31-55-61:~$ multichaind chain@172.31.40.33:9587 stop

MultiChain 2.0.2 Daemon (Community Edition, latest protocol 20010)

Retrieving blockchain parameters from the seed node 172.31.40.33:9587 ...

Blockchain successfully initialized.

Please ask blockchain admin or user having activate permission to let you connect and/or transact:

multichain-cli chain grant 1AYuaarqfyxnyd3ZBkwJ6iLExhAqkSnV3zQtGG connect

multichain-cli chain grant 1AYuaarqfyxnyd3ZBkwJ6iLExhAqkSnV3zQtGG connect,send,receive

ubuntu@ip-172-31-55-61:~$ multichainConnection reset by 3.216.111.150 port 22

C:\Users\yasin>ssh -i "C:\Users\yasin\OneDrive\Documents\Deep Learning Project\node-2.pem" ubuntu@3.216.111.150

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86\_64)

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Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86\_64)

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System information as of Sat Aug 15 01:33:49 UTC 2020

System load: 0.0 Processes: 99

Usage of /: 20.5% of 7.69GB Users logged in: 1

Memory usage: 25% IP address for eth0: 172.31.55.61

Swap usage: 0%

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0 packages can be updated.

0 updates are security updates.

Last login: Sat Aug 15 00:18:32 2020 from 68.98.129.9

ubuntu@ip-172-31-55-61:~$ multichain-cli chain2 stop

{"method":"stop","params":[],"id":"36641622-1597455238","chain\_name":"chain2"}

MultiChain server stopping

ubuntu@ip-172-31-55-61:~$ multichain-cli chain2 getinfo

error: couldn't connect to server

ubuntu@ip-172-31-55-61:~$ ll

total 56

drwxr-xr-x 9 ubuntu ubuntu 4096 Aug 14 13:13 ./

drwxr-xr-x 3 root root 4096 Aug 13 05:45 ../

-rw------- 1 ubuntu ubuntu 2164 Aug 15 01:12 .bash\_history

-rw-r--r-- 1 ubuntu ubuntu 220 Apr 4 2018 .bash\_logout

-rw-r--r-- 1 ubuntu ubuntu 3771 Apr 4 2018 .bashrc

drwx------ 2 ubuntu ubuntu 4096 Aug 13 22:34 .cache/

drwx------ 3 ubuntu ubuntu 4096 Aug 13 22:34 .gnupg/

drwxrwxr-x 6 ubuntu ubuntu 4096 Aug 14 11:55 .multichain/

-rw-r--r-- 1 ubuntu ubuntu 807 Apr 4 2018 .profile

drwx------ 2 ubuntu ubuntu 4096 Aug 13 05:45 .ssh/

-rw-r--r-- 1 ubuntu ubuntu 0 Aug 13 22:35 .sudo\_as\_admin\_successful

drwxrwxr-x 2 ubuntu ubuntu 4096 Aug 14 04:45 multichain1/

-rw-rw-r-- 1 ubuntu ubuntu 1715 Aug 14 13:13 saveCommands.txt

drwxr-xr-x 3 root root 4096 Aug 13 22:39 tmp/

drwxr-xr-x 4 root root 4096 Aug 14 05:40 tmp2/

ubuntu@ip-172-31-55-61:~$ cd .multichain/chain

ubuntu@ip-172-31-55-61:~/.multichain/chain$ cd .multichain/chain2

-bash: cd: .multichain/chain2: No such file or directory

ubuntu@ip-172-31-55-61:~/.multichain/chain$ cd .multichain.chain1

-bash: cd: .multichain.chain1: No such file or directory

ubuntu@ip-172-31-55-61:~/.multichain/chain$ ll

total 56

drwxrwxr-x 3 ubuntu ubuntu 4096 Aug 15 00:20 ./

drwxrwxr-x 6 ubuntu ubuntu 4096 Aug 14 11:55 ../

-rw------- 1 ubuntu ubuntu 0 Aug 14 11:43 .lock

-rw------- 1 ubuntu ubuntu 10513 Aug 15 00:20 debug.log

-rw-rw-r-- 1 ubuntu ubuntu 79 Aug 14 10:45 multichain.conf

-rw------- 1 ubuntu ubuntu 9284 Aug 14 11:43 params.dat

-rw------- 1 ubuntu ubuntu 1106 Aug 15 00:20 peers.dat

drwxr-xr-x 2 ubuntu ubuntu 4096 Aug 15 00:19 permissions.db/

-rw-rw-r-- 1 ubuntu ubuntu 420 Aug 15 00:19 permissions.log

-rw------- 1 ubuntu ubuntu 23 Aug 15 00:20 seed.dat

-rw------- 1 ubuntu ubuntu 1083 Aug 14 11:43 wallet.dat

ubuntu@ip-172-31-55-61:~/.multichain/chain$ cd multichain1

-bash: cd: multichain1: No such file or directory

ubuntu@ip-172-31-55-61:~/.multichain/chain$ cd multichain1/

-bash: cd: multichain1/: No such file or directory

ubuntu@ip-172-31-55-61:~/.multichain/chain$ cd .multichain/chain1

-bash: cd: .multichain/chain1: No such file or directory

ubuntu@ip-172-31-55-61:~/.multichain/chain$ cd multichain1/

-bash: cd: multichain1/: No such file or directory

ubuntu@ip-172-31-55-61:~/.multichain/chain$ cd /local/bin

-bash: cd: /local/bin: No such file or directory

ubuntu@ip-172-31-55-61:~/.multichain/chain$ cat params.dat

# ==== MultiChain configuration file ====

# Created by multichain-util

# Protocol version: 20010

# This parameter set contains MINIMAL number of parameters required for connection to existing network.

# To join network please run "multichaind chain@<seed-node-ip>[:<seed-node-port>]".

# The following parameters can only be edited if this file is a prototype of another configuration file.

# Please run "multichain-util clone chain <new-network-name>" to generate new network.

# Basic chain parameters

chain-protocol = [null] # Chain protocol: multichain (permissions, native assets) or bitcoin

chain-description = [null] # Chain description, embedded in genesis block coinbase, max 90 chars.

root-stream-name = [null] # Root stream name, blank means no root stream.

root-stream-open = [null] # Allow anyone to publish in root stream

chain-is-testnet = [null] # Content of the 'testnet' field of API responses, for compatibility.

target-block-time = [null] # Target time between blocks (transaction confirmation delay), seconds. (2 - 86400)

maximum-block-size = [null] # Maximum block size in bytes. (5000 - 1000000000)

maximum-chunk-size = [null] # Maximum chunk size for off-chain items in bytes. (256 - 16777216)

maximum-chunk-count = [null] # Maximum number of chunks in one off-chain item. (16 - 2048)

timing-upgrade-min-gap = [null] # Minimal gap between time-related parameter upgrades. In blocks. (1 - 31536000)

# Global permissions

anyone-can-connect = [null] # Anyone can connect, i.e. a publicly readable blockchain.

anyone-can-send = [null] # Anyone can send, i.e. transaction signing not restricted by address.

anyone-can-receive = [null] # Anyone can receive, i.e. transaction outputs not restricted by address.

anyone-can-receive-empty = [null] # Anyone can receive empty output, i.e. without permission grants, asset transfers and zero native currency.

anyone-can-create = [null] # Anyone can create new streams.

anyone-can-issue = [null] # Anyone can issue new native assets.

anyone-can-mine = [null] # Anyone can mine blocks (confirm transactions).

anyone-can-activate = [null] # Anyone can grant or revoke connect, send and receive permissions.

anyone-can-admin = [null] # Anyone can grant or revoke all permissions.

support-miner-precheck = [null] # Require special metadata output with cached scriptPubKey for input, to support advanced miner checks.

allow-arbitrary-outputs = [null] # Allow arbitrary (without clear destination) scripts.

allow-p2sh-outputs = [null] # Allow pay-to-scripthash (P2SH) scripts, often used for multisig. Ignored if allow-arbitrary-outputs=true.

allow-multisig-outputs = [null] # Allow bare multisignature scripts, rarely used but still supported. Ignored if allow-arbitrary-outputs=true.

# Consensus requirements

setup-first-blocks = [null] # Length of initial setup phase in blocks, in which mining-diversity,

# admin-consensus-\* and mining-requires-peers are not applied. (1 - 31536000)

mining-diversity = [null] # Miners must wait <mining-diversity>\*<active miners> between blocks. (0 - 1)

admin-consensus-upgrade = [null] # <admin-consensus-upgrade>\*<active admins> needed to upgrade the chain. (0 - 1)

admin-consensus-txfilter = [null] # <admin-consensus-txfilter>\*<active admins> needed to approve filter in the chain. (0 - 1)

admin-consensus-admin = [null] # <admin-consensus-admin>\*<active admins> needed to change admin perms. (0 - 1)

admin-consensus-activate = [null] # <admin-consensus-activate>\*<active admins> to change activate perms. (0 - 1)

admin-consensus-mine = [null] # <admin-consensus-mine>\*<active admins> to change mining permissions. (0 - 1)

admin-consensus-create = [null] # <admin-consensus-create>\*<active admins> to change create permissions. (0 - 1)

admin-consensus-issue = [null] # <admin-consensus-issue>\*<active admins> to change issue permissions. (0 - 1)

# Defaults for node runtime parameters

lock-admin-mine-rounds = [null] # Ignore forks that reverse changes in admin or mine permissions after this many mining rounds have passed. Integer only. (0 - 10000)

mining-requires-peers = [null] # Nodes only mine blocks if connected to other nodes (ignored if only one permitted miner).

mine-empty-rounds = [null] # Mine this many rounds of empty blocks before pausing to wait for new transactions. If negative, continue indefinitely (ignored if target-adjust-freq>0). Non-integer allowed. (-1 - 1000)

mining-turnover = [null] # Prefer pure round robin between a subset of active miners to minimize forks (0.0) or random equal participation for all permitted miners (1.0). (0 - 1)

# Native blockchain currency (likely not required)

initial-block-reward = [null] # Initial block mining reward in raw native currency units. (0 - 1000000000000000000)

first-block-reward = [null] # Different mining reward for first block only, ignored if negative. (-1 - 1000000000000000000)

reward-halving-interval = [null] # Interval for halving of mining rewards, in blocks. (60 - 1000000000)

reward-spendable-delay = [null] # Delay before mining reward can be spent, in blocks. (1 - 100000)

minimum-per-output = [null] # Minimum native currency per output (anti-dust), in raw units.

# If set to -1, this is calculated from minimum-relay-fee. (-1 - 1000000000)

maximum-per-output = [null] # Maximum native currency per output, in raw units. (0 - 1000000000000000000)

minimum-offchain-fee = [null] # Minimum fee for publishing off-chain data items, per 1000 bytes, in raw units of native currency. (0 - 1000000000)

minimum-relay-fee = [null] # Minimum transaction fee, per 1000 bytes, in raw units of native currency. (0 - 1000000000)

native-currency-multiple = [null] # Number of raw units of native currency per display unit. (0 - 1000000000)

# Advanced mining parameters

skip-pow-check = [null] # Skip checking whether block hashes demonstrate proof of work.

pow-minimum-bits = [null] # Initial and minimum proof of work difficulty, in leading zero bits. (1 - 32)

target-adjust-freq = [null] # Interval between proof of work difficulty adjustments, in seconds, if negative - never adjusted. (-1 - 4294967295)

allow-min-difficulty-blocks = [null] # Allow lower difficulty blocks if none after 2\*<target-block-time>.

# Standard transaction definitions

only-accept-std-txs = [null] # Only accept and relay transactions which qualify as 'standard'.

max-std-tx-size = [null] # Maximum size of standard transactions, in bytes. (1024 - 100000000)

max-std-op-returns-count = [null] # Maximum number of OP\_RETURN metadata outputs in standard transactions. (0 - 1024)

max-std-op-return-size = [null] # Maximum size of OP\_RETURN metadata in standard transactions, in bytes. (0 - 67108864)

max-std-op-drops-count = [null] # Maximum number of OP\_DROPs per output in standard transactions. (0 - 100)

max-std-element-size = [null] # Maximum size of data elements in standard transactions, in bytes. (128 - 80000)

# The following parameters were generated by multichain-util.

# They SHOULD ONLY BE EDITED IF YOU KNOW WHAT YOU ARE DOING.

default-network-port = [null] # Default TCP/IP port for peer-to-peer connection with other nodes.

default-rpc-port = 9586 # Default TCP/IP port for incoming JSON-RPC API requests.

chain-name = chain # Chain name, used as first argument for multichaind and multichain-cli.

protocol-version = 20010 # Protocol version at the moment of blockchain genesis.

network-message-start = f3c5cae1 # Magic value sent as the first 4 bytes of every peer-to-peer message.

address-pubkeyhash-version = 0038eafd # Version bytes used for pay-to-pubkeyhash addresses.

address-scripthash-version = [null] # Version bytes used for pay-to-scripthash addresses.

private-key-version = 80f3d70f # Version bytes used for exporting private keys.

address-checksum-value = dd084df9 # Bytes used for XOR in address checksum calculation.

# The following parameters were generated by multichaind.

# They SHOULD NOT BE EDITED.

genesis-pubkey = [null] # Genesis block coinbase output public key.

genesis-version = [null] # Genesis block version.

genesis-timestamp = [null] # Genesis block timestamp.

genesis-nbits = [null] # Genesis block difficulty (nBits).

genesis-nonce = [null] # Genesis block nonce.

genesis-pubkey-hash = [null] # Genesis block coinbase output public key hash.

genesis-hash = [null] # Genesis block hash.

chain-params-hash = [null] # Hash of blockchain parameters, to prevent accidental changes.

ubuntu@ip-172-31-55-61:~/.multichain/chain$ exit

logout

Connection to 3.216.111.150 closed.

C:\Users\yasin>ssh -i "C:\Users\yasin\OneDrive\Documents\Deep Learning Project\node-2.pem" ubuntu@3.216.111.150

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86\_64)

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

System information as of Sat Aug 15 01:58:13 UTC 2020Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86\_64)

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

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

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

System information as of Sat Aug 15 01:58:13 UTC 2020

System load: 0.0 Processes: 95

Usage of /: 20.5% of 7.69GB Users logged in: 1

Memory usage: 21% IP address for eth0: 172.31.55.61

Swap usage: 0%

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0 packages can be updated.

0 updates are security updates.

Last login: Sat Aug 15 01:33:50 2020 from 68.98.129.9

ubuntu@ip-172-31-55-61:~$ Connection reset by 3.216.111.150 port 22

C:\Users\yasin>ssh -i "C:\Users\yasin\OneDrive\Documents\Deep Learning Project\node-2.pem" ubuntu@3.216.111.150

Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1032-aws x86\_64)

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

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

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

System information as of Sat Aug 15 03:38:00 UTC 2020

System load: 0.0 Processes: 97

Usage of /: 20.5% of 7.69GB Users logged in: 1

Memory usage: 21% IP address for eth0: 172.31.55.61

Swap usage: 0%

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0 packages can be updated.

0 updates are security updates.

Last login: Sat Aug 15 01:58:14 2020 from 68.98.129.9

ubuntu@ip-172-31-55-61:~$ multichain-cli chain2 getinfo

error: couldn't connect to server

ubuntu@ip-172-31-55-61:~$ multichain-cli chain2 -daemon

MultiChain 2.0.2 RPC client

Interactive mode

chain2: getinfo

error: couldn't connect to server

chain2: exit

Bye

ubuntu@ip-172-31-55-61:~$ multichain-cli chain2 getinfo

error: couldn't connect to server

ubuntu@ip-172-31-55-61:~$ multichain-cli chain2

MultiChain 2.0.2 RPC client

Interactive mode

chain2: getadresses

error: couldn't connect to server

chain2: getaddresses

error: couldn't connect to server

chain2: exit

Bye

ubuntu@ip-172-31-55-61:~$ multichaind chain2 -daemon

MultiChain 2.0.2 Daemon (Community Edition, latest protocol 20010)

Starting up node...

Chain chain2 already exists, adding 172.31.40.33:9587 to list of peers

Other nodes can connect to this node using:

multichaind chain2@172.31.55.61:9587

Listening for API requests on port 9586 (local only - see rpcallowip setting)

Node ready.

ubuntu@ip-172-31-55-61:~$ multichain-cli chain2

MultiChain 2.0.2 RPC client

Interactive mode

chain2: getaddresses

{"method":"getaddresses","params":[],"id":"41251969-1597463803","chain\_name":"chain2"}

[

"1518jrMCgztVPvjMFsPgnZ1XzT3B5H3ELj7Nsh"

]

chain2: getpeerinfo

{"method":"getpeerinfo","params":[],"id":"95279018-1597463831","chain\_name":"chain2"}

[

{

"id" : 1,

"addr" : "172.31.40.33:9587",

"addrlocal" : "172.31.55.61:39692",

"services" : "0000000000000001",

"lastsend" : 1597463829,

"lastrecv" : 1597463829,

"bytessent" : 1827,

"bytesrecv" : 1828,

"conntime" : 1597463789,

"pingtime" : 0.064574,

"version" : 70002,

"subver" : "/MultiChain:0.2.0.10/",

"handshakelocal" : "1518jrMCgztVPvjMFsPgnZ1XzT3B5H3ELj7Nsh",

"handshake" : "1a8878MdLbyXFMhxjYoRE3krxupBjxzHTT6LMa",

"inbound" : false,

"startingheight" : 70,

"banscore" : 0,

"synced\_headers" : 70,

"synced\_blocks" : 70,

"inflight" : [

],

"whitelisted" : false

}

]

chain2: exit

Bye

ubuntu@ip-172-31-55-61:~$ multichain-cli chain2

MultiChain 2.0.2 RPC client

Interactive mode

chain2: listassets

{"method":"listassets","params":[],"id":"88386860-1597465881","chain\_name":"chain2"}

[

{

"name" : "asset1",

"issuetxid" : "b3fd43177a3527eb3a08effd7229af8a5d1a1beed9456b62661f9aef1b176e61",

"assetref" : "71-265-64947",

"multiple" : 100,

"units" : 0.01,

"open" : false,

"restrict" : {

"send" : false,

"receive" : false

},

"details" : {

},

"issueqty" : 1000,

"issueraw" : 100000,

"subscribed" : false

}

]

chain2: gettotalbalances

{"method":"gettotalbalances","params":[],"id":"41741908-1597465981","chain\_name":"chain2"}

[

]

chain2: gettotalbalances

{"method":"gettotalbalances","params":[],"id":"25835028-1597466111","chain\_name":"chain2"}

[

{

"name" : "asset1",

"assetref" : "71-265-64947",

"qty" : 100

}

]

chain2: listwallettransactions 1

{"method":"listwallettransactions","params":[1],"id":"20915711-1597466169","chain\_name":"chain2"}

[

{

"balance" : {

"amount" : 0,

"assets" : [

{

"name" : "asset1",

"assetref" : "71-265-64947",

"qty" : 100

}

]

},

"myaddresses" : [

"1518jrMCgztVPvjMFsPgnZ1XzT3B5H3ELj7Nsh"

],

"addresses" : [

"1a8878MdLbyXFMhxjYoRE3krxupBjxzHTT6LMa"

],

"permissions" : [

],

"items" : [

],

"data" : [

],

"confirmations" : 9,

"blockhash" : "00f61f6cb81c2baa44b4a67c2c27cdb88a23c7cce673669147f4d29fe8463d81",

"blockindex" : 1,

"blocktime" : 1597466072,

"txid" : "805857bab4f3c28d20e22033a3f5ffeaf595b46d25a94aad8ca0775ff6750d5a",

"valid" : true,

"time" : 1597466060,

"timereceived" : 1597466060

}

]

chain2: gettotalbalances

{"method":"gettotalbalances","params":[],"id":"52600624-1597466549","chain\_name":"chain2"}

[

{

"name" : "asset1",

"assetref" : "71-265-64947",

"qty" : 225

}

]

chain2: