NAME:

geth - the go-ethereum command line interface

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USAGE:

geth [options] command [command options] [arguments...]

**VERSION:** 

1.6.6-stable-10a45cb5

COMMANDS:

init Bootstrap and initialize a new genesis block

import Import a blockchain file export Export blockchain into file

removedb Remove blockchain and state databases

dump Dump a specific block from storage monitor Monitor and visualize node metrics

account Manage accounts

wallet Manage Ethereum presale wallets

console Start an interactive JavaScript environment

attach Start an interactive JavaScript environment (connect to node)

js Execute the specified JavaScript files makedag Generate ethash DAG (for testing)

version Print version numbers

bug opens a window to report a bug on the geth repo

license Display license information dumpconfig Show configuration values

help, h Shows a list of commands or help for one command

**ETHEREUM OPTIONS:** 

--config value TOML configuration file

--datadir "/Users/benwang/Library/Ethereum" Data directory for the databases and keystore
--keystore Directory for the keystore (default = inside the datadir)

--nousb Disables monitoring for and managine USB hardware wallets --networkid value Network identifier (integer, 1=Frontier, 2=Morden (disused),

3=Ropsten, 4=Rinkeby) (default: 1)

--testnet Ropsten network: pre-configured proof-of-work test network
--rinkeby Rinkeby network: pre-configured proof-of-authority test network
--dev Developer mode: pre-configured private network with several

debugging flags

--syncmode "fast" Blockchain sync mode ("fast", "full", or "light")

--ethstats value Reporting URL of a ethstats service

(nodename:secret@host:port)

--identity value Custom node name

--lightserv value Maximum percentage of time allowed for serving LES requests

(0-90) (default: 0)

--lightpeers value Maximum number of LES client peers (default: 20)

--lightkdf Reduce key-derivation RAM & CPU usage at some expense of

KDF strength

**ETHASH OPTIONS:** 

--ethash.cachedir Directory to store the ethash verification caches (default = inside

the datadir)

(16MB each) (default: 2)

--ethash.cachesondisk value Number of recent ethash caches to keep on disk (16MB

each) (default: 3)

--ethash.dagdir "/Users/benwang/.ethash" Directory to store the ethash mining DAGs (default = inside home folder)

(1+GB each) (default: 1)

--ethash.dagsondisk value Number of recent ethash mining DAGs to keep on disk

(1+GB each) (default: 2)

#### TRANSACTION POOL OPTIONS:

--txpool.pricelimit value Minimum gas price limit to enforce for acceptance into the pool (default: 1)

--txpool.pricebump value Price bump percentage to replace an already existing transaction (default: 10)

--txpool.accountslots value Minimum number of executable transaction slots guaranteed per account (default: 16)

--txpool.globalslots value Maximum number of executable transaction slots for all accounts (default: 4096)

--txpool.accountqueue value Maximum number of non-executable transaction slots permitted per account (default: 64)

--txpool.globalqueue value Maximum number of non-executable transaction slots for all accounts (default: 1024)

--txpool.lifetime value Maximum amount of time non-executable transaction are queued (default: 3h0m0s)

## PERFORMANCE TUNING OPTIONS:

--cache value Megabytes of memory allocated to internal caching (min 16MB / database forced) (default: 128)

--trie-cache-gens value Number of trie node generations to keep in memory (default: 120)

# **ACCOUNT OPTIONS:**

--unlock value 
Comma separated list of accounts to unlock

--password value Password file to use for non-inteactive password input

#### API AND CONSOLE OPTIONS:

--rpc Enable the HTTP-RPC server

--rpcaddr value HTTP-RPC server listening interface (default: "localhost")

--rpcport value HTTP-RPC server listening port (default: 8545)
--rpcapi value API's offered over the HTTP-RPC interface

--ws Enable the WS-RPC server

--wsaddr value WS-RPC server listening interface (default: "localhost")

--wsport value WS-RPC server listening port (default: 8546)
--wsapi value API's offered over the WS-RPC interface

--wsorigins value Origins from which to accept websockets requests

--ipcdisable Disable the IPC-RPC server

--ipcpath Filename for IPC socket/pipe within the datadir (explicit paths escape it)
--rpccorsdomain value Comma separated list of domains from which to accept cross origin requests (browser enforced)

--jspath loadScript JavaScript root path for loadScript (default: ".")

--preload value Comma separated list of JavaScript files to preload into the console

## **NETWORKING OPTIONS:**

--bootnodes value Comma separated enode URLs for P2P discovery bootstrap (set v4+v5 instead for light servers)

- --bootnodesv4 value Comma separated enode URLs for P2P v4 discovery bootstrap (light server, full nodes)
- --bootnodesv5 value Comma separated enode URLs for P2P v5 discovery bootstrap (light server, light nodes)

--port value Network listening port (default: 30303)

--maxpeers value Maximum number of network peers (network disabled if set to 0) (default: 25)

--maxpendpeers value Maximum number of pending connection attempts (defaults used if set to 0) (default: 0)

--nat value NAT port mapping mechanism (anylnonelupnplpmplextip:<IP>) (default: "any")

--nodiscover Disables the peer discovery mechanism (manual peer addition)
--v5disc Enables the experimental RLPx V5 (Topic Discovery) mechanism

--netrestrict value Restricts network communication to the given IP networks (CIDR masks)

--nodekey value P2P node key file

--nodekeyhex value P2P node key as hex (for testing)

#### MINER OPTIONS:

--mine Enable mining

--minerthreads value Number of CPU threads to use for mining (default: 4)

--etherbase value Public address for block mining rewards (default = first account created)

(default: "0")

--targetgaslimit value Target gas limit sets the artificial target gas floor for the blocks to mine (default: 4712388)

--gasprice "1800000000" Minimal gas price to accept for mining a transactions --extradata value Block extra data set by the miner (default = client version)

#### GAS PRICE ORACLE OPTIONS:

--gpoblocks value Number of recent blocks to check for gas prices (default: 10)

--gpopercentile value Suggested gas price is the given percentile of a set of recent transaction gas prices (default: 50)

## **VIRTUAL MACHINE OPTIONS:**

--vmdebug Record information useful for VM and contract debugging

#### LOGGING AND DEBUGGING OPTIONS:

--metrics Enable metrics collection and reporting
--fakepow Disables proof-of-work verification
--nocompaction Disables db compaction after import

--verbosity value Logging verbosity: 0=silent, 1=error, 2=warn, 3=info, 4=debug, 5=detail

(default: 3)

--vmodule value Per-module verbosity: comma-separated list of <pattern>=<level> (e.g.

eth/\*=5,p2p=4)

--backtrace value Request a stack trace at a specific logging statement (e.g. "block.go:271")

--debug Prepends log messages with call-site location (file and line number)

--pprof Enable the pprof HTTP server

--pprofaddr value pprof HTTP server listening interface (default: "127.0.0.1")

--pprofport value pprof HTTP server listening port (default: 6060)

--memprofilerate value Turn on memory profiling with the given rate (default: 524288)

--blockprofilerate value Turn on block profiling with the given rate (default: 0)

--cpuprofile value Write CPU profile to the given file --trace value Write execution trace to the given file

# **DEPRECATED OPTIONS:**

--fast Enable fast syncing through state downloads

--light Enable light client mode

# **EXPERIMENTAL OPTIONS:**

- --shh Enable Whisper
- --help, -h show help

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