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Command Line Options

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```
$ geth help
NAME:
   geth - the go-ethereum command line interface
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USAGE:
   geth [options] command [command options] [arguments...]
VERSION:
   1.8.11-stable
COMMANDS:
   account
                     Manage accounts
   attach
                     Start an interactive JavaScript environment (connect to
node)
   bug
                     opens a window to report a bug on the geth repo
   console
                     Start an interactive JavaScript environment
                     Create a local chain from a target chaindata folder
   copydb
                     Dump a specific block from storage
   dump
   dumpconfig
                     Show configuration values
   export
                     Export blockchain into file
   export-preimages
                     Export the preimage database into an RLP stream
   import
                     Import a blockchain file
                     Import the preimage database from an RLP stream
   import-preimages
   init
                     Bootstrap and initialize a new genesis block
                     Execute the specified JavaScript files
   is
                     Display license information
   license
   makecache
                     Generate ethash verification cache (for testing)
   makedaq
                     Generate ethash mining DAG (for testing)
   monitor
                     Monitor and visualize node metrics
                     Remove blockchain and state databases
   removedb
```

version Print version numbers

wallet Manage Ethereum presale wallets

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

ETHEREUM OPTIONS:

--config value TOML configuration file

--datadir "/home/ligi/.ethereum" Data directory for the databases and

keystore

--keystore Directory for the keystore (default = inside

the datadir)

--nousb Disables monitoring for and managing 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

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

"light")

--gcmode value Blockchain garbage collection mode ("full",

"archive") (default: "full")

--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:

100)

--lightkdf Reduce key-derivation RAM & CPU usage at

some expense of KDF strength

DEVELOPER CHAIN OPTIONS:

--dev Ephemeral proof-of-authority network with a pre-funded developer account, mining enabled

--dev.period value Block period to use in developer mode (0 = mine only if transaction pending) (default: 0)

ETHASH OPTIONS:

--ethash.cachedir Directory to store the ethash

verification caches (default = inside the datadir)

--ethash.cachesinmem value Number of recent ethash caches to keep

in memory (16MB each) (default: 2)

--ethash.cachesondisk value Number of recent ethash caches to keep

on disk (16MB each) (default: 3)

--ethash.dagdir "/home/ligi/.ethash" Directory to store the ethash mining

DAGs (default = inside home folder)

--ethash.dagsinmem value Number of recent ethash mining DAGs to

keep in memory (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.nolocals Disables price exemptions for locally submitted

transactions

- --txpool.journal value Disk journal for local transaction to survive node restarts (default: "transactions.rlp")
- --txpool.rejournal value Time interval to regenerate the local transaction journal (default: 1h0m0s)
- --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 (default: 1024)
- --cache.database value Percentage of cache memory allowance to use for database io (default: 75)
- --cache.gc value Percentage of cache memory allowance to use for trie pruning (default: 25)
- --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-interactive 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)

--rpcvhosts value Comma separated list of virtual hostnames from which to accept requests (server enforced). Accepts '*' wildcard. (default: "localhost")

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

--exec value Execute JavaScript statement

--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 (any|none|upnp|pmp|extip:

<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

lue 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: 8)
--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: 20)
- --gpopercentile value Suggested gas price is the given percentile of a set of recent transaction gas prices (default: 60)

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

WHISPER (EXPERIMENTAL) OPTIONS:

--shh Enable Whisper

--shh.maxmessagesize value Max message size accepted (default: 1048576)

--shh.pow value Minimum POW accepted (default: 0.2)

DEPRECATED OPTIONS:

--fast Enable fast syncing through state downloads (replaced by --syncmode)

--light Enable light client mode (replaced by --syncmode)

MISC OPTIONS:

--help, -h show help

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