

EthSigner command line

This reference describes the syntax of the EthSigner Command Line Interface (CLI) options.

Specifying options

EthSigner options can be specified:

- On the command line
- As an [environment variable](#)
- In a [TOML configuration file](#)
- .

If you specify an option in more than one place, the order of priority is command line, environment variable, configuration file.

Environment variables

For each command line option, the equivalent environment variable is:

- Upper-case
- _
- replaces-
- Has an ETHSIGNER_
- prefix

For example, set--data-path using the ETHSIGNER_DATA_PATH environment variable.

You can include [subcommand](#) options as environment variables as well, for example setmultikey-signer --directory using the ETHSIGNER_MULTIKEY_SIGNER_DIRECTORY environment variable.

Options

config-file

The path to the [TOML configuration file](#) . The default is none .

- Syntax
- Example
- Environment variable

--config-file

< FILE

--config-file

/home/me/me_node/config.toml ETHSIGNER_CONFIG_FILE = /home/me/me_node/config.toml

chain-id

[Chain ID](#) of the network to receive the signed transactions.

- Syntax
- Example
- Environment variable
- Configuration file

--chain-id

< chainId

--chain-id

2017 ETHSIGNER_CHAIN_ID = 2017 chain-id = 2017

data-path

Directory in which to store temporary files.

- Syntax
- Example
- Environment variable
- Configuration file

--data-path

< PATH

--data-path

/Users/me/my_node/data ETHSIGNER_DATA_PATH = /Users/me/my_node/data data-path =
"/Users/me/my_node/data"

downstream-http-host

Host to which received requests are forwarded. Default islocalhost .

- Syntax
- Example
- Environment variable
- Configuration file

--downstream-http-host

< downstreamHttpHost

--downstream-http-host

192.168 .05.14 ETHSIGNER_DOWNSTREAM_HTTP_HOST = 192.168 .05.14 downstream-http-host =
"192.168.05.14"

downstream-http-path

Path to which received requests are forwarded. Default is/ .

Might be required if[connecting to a cloud-based Ethereum client](#) such as[Infura](#) .

- Syntax
- Example
- Environment variable
- Configuration file

--downstream-http-path

< downstreamHttpPath

--downstream-http-path

```
/v3/d0e63ca5bb1e4eef2284422efbc51a56 ETHSIGNER_DOWNSTREAM_HTTP_PATH =  
/v3/d0e63ca5bb1e4eef2284422efbc51a56 downstream-http-path = "/v3/d0e63ca5bb1e4eef2284422efbc51a56"
```

downstream-http-port

Port to which received requests are forwarded.

- Syntax
- Example
- Environment variable
- Configuration file

--downstream-http-port

< downstreamHttpPort

--downstream-http-port

```
6174 ETHSIGNER_DOWNSTREAM_HTTP_PORT = 6174 downstream-http-port = 6174
```

downstream-http-request-timeout

Timeout period (in milliseconds) for downstream requests. Default is 5000.

- Syntax
- Example
- Environment variable
- Configuration file

--downstream-http-request-timeout

< downstreamHttpRequestTimeout

--downstream-http-request-timeout

```
3000 ETHSIGNER_DOWNSTREAM_HTTP_REQUEST_TIMEOUT = 3000 downstream-http-request-timeout =  
3000
```

downstream-http-tls-enabled

Enable or disable [TLS for server connections](#) . Defaults to false .

- Syntax
- Example
- Environment variable
- Configuration file

--downstream-http-tls-enabled [= < true | false

```
] --downstream-http-tls-enabled ETHSIGNER_DOWNSTREAM_HTTP_TLS_ENABLED downstream-http-tls-  
enabled
```

downstream-http-tls-ca-auth-enabled

Allow connections to servers with trusted CAs.

Defaults to true .

- Syntax
- Example
- Environment variable
- Configuration file

--downstream-http-tls-ca-auth-enabled [= < true | false

] --downstream-http-tls-ca-auth-enabled = false

ETHSIGNER_DOWNSTREAM_HTTP_TLS_CA_AUTH_ENABLED = false downstream-http-tls-ca-auth-enabled = false

downstream-http-tls-keystore-file

Keystore file (in PKCS #12 format) that contains the private key and certificate presented to the server during authentication.

- Syntax
- Example
- Environment variable
- Configuration file

--downstream-http-tls-keystore-file

< keystoreFile

--downstream-http-tls-keystore-file

/Users/me/my_node/keystore.pfx ETHSIGNER_DOWNSTREAM_HTTP_TLS_KEYSTORE_FILE =

/Users/me/my_node/keystore.pfx downstream-http-tls-keystore-file = "/Users/me/my_node/keystore.pfx"

downstream-http-tls-keystore-password-file

Password file used to decrypt the keystore.

- Syntax
- Example
- Environment variable
- Configuration file

--downstream-http-tls-keystore-password-file

< passwordFile

--downstream-http-tls-keystore-password-file

/Users/me/my_node/password.txt ETHSIGNER_DOWNSTREAM_HTTP_TLS_KEYSTORE_PASSWORD_FILE =

/Users/me/my_node/password.txt downstream-http-tls-keystore-password-file =

/Users/me/my_node/password.txt

downstream-http-tls-known-servers-file

File containing the hostnames, ports, and SHA256 certificate fingerprints of [trusted servers](#) .

- Syntax
- Example
- Environment variable

- Configuration file

--downstream-http-tls-known-servers-file

< serversFile

--downstream-http-tls-known-servers-file

```
/Users/me/my_node/knownServers ETHSIGNER_DOWNSTREAM_HTTP_TLS_KNOWN_SERVERS_FILE =
/Users/me/my_node/knownServers downstream-http-tls-known-servers-file =
"/Users/me/my_node/knownServers"
```

http-cors-origins

A list of domain URLs for CORS validation. You must enclose the URLs in double quotes and separate them with commas.

Listed domains can access the node using JSON-RPC. If your client interacts with EthSigner using a browser app (such as Remix or a block explorer), you must allow the client domains.

The default value is none . If you do not allow any domains, browser apps cannot interact with your EthSigner node.

tip For testing and development purposes, use "all" or "*" to accept requests from any domain. We don't recommend accepting requests from any domain for production environments. * Syntax * Example * Environment variable * Configuration file

--http-cors-origins

< httpListenHost

--http-cors-origins

```
"http://remix.ethereum.org" , "http://medomain.com" ETHSIGNER_HTTP_CORS_ORIGINS =
"http://remix.ethereum.org" , "http://medomain.com" http-cors-origins = [ "http://remix.ethereum.org" ,
"https://meotherdomain.com" ]
```

http-listen-host

Host on which JSON-RPC HTTP listens. Default is localhost .

- Syntax
- Example
- Environment variable
- Configuration file

--http-listen-host

< httpListenHost

--http-listen-host

```
10.100 .111.1 ETHSIGNER_HTTP_LISTEN_HOST = 10.100 .111.1 http-listen-host = "10.100.111.1"
```

http-listen-port

Port on which JSON-RPC HTTP listens. Default is 8545.

- Syntax
- Example
- Environment variable
- Configuration file

--http-listen-port

< httpListenPort

--http-listen-port

6174 ETHSIGNER_HTTP_LISTEN_PORT = 6174 http-listen-port = 6174

logging

Logging verbosity levels. Options are:OFF ,FATAL ,WARN ,INFO ,DEBUG ,TRACE ,ALL . Default isINFO .

- Syntax
- Example
- Environment variable
- Configuration file

-l, --logging

< LOG VERBOSITY LEVEL

--logging

DEBUG ETHSIGNER_LOGGING = DEBUG logging = "DEBUG"

metrics-enabled

Enables the[metrics exporter](#) . The default isfalse .

- Syntax
- Environment variable
- Configuration file

--metrics-enabled [= < true | false

] ETHSIGNER_METRICS_ENABLED = true metrics-enabled = true

metrics-category

Categories for which to track metrics. Options areHTTP ,SIGNING ,JVM , andPROCESS . All categories are enabled by default.

note There are currently no metrics available for theHTTP andSIGNING categories. * Syntax * Example * Environment variable * Configuration file

--metrics-category

< metrics-category

[,metrics-category .. .] .. . --metrics-category = HTTP,SIGNING ETHSIGNER_METRICS_CATEGORY = HTTP,SIGNING metrics-category = ["HTTP" , "SIGNING"]

metrics-host

The host on which [Prometheus](#) accesses EthSigner metrics. The default is 127.0.0.1 .

- Syntax
- Example
- Environment variable
- Configuration file

--metrics-host

< HOST

--metrics-host

```
127.0.0.1 ETHSIGNER_METRICS_HOST = 127.0.0.1 metrics-host = "127.0.0.1"
```

metrics-host-allowlist

A comma-separated list of hostnames to allow access to the EthSigner metrics. By default, EthSigner accepts access from localhost and 127.0.0.1 .

tip To allow all hostnames, use "*". We don't recommend allowing all hostnames for production environments. * Syntax *
Example * Environment variable * Configuration file

--metrics-host-allowlist

< hostname

```
[ , < hostname  
... ] ... or "*" --metrics-host-allowlist = medomain.com,meotherdomain.com  
ETHSIGNER_METRICS_HOST_ALLOWLIST = medomain.com,meotherdomain.com metrics-host-allowlist = [  
"medomain.com" , "meotherdomain.com" ]
```

metrics-port

The port (TCP) on which [Prometheus](#) accesses EthSigner metrics. The default is 9546 .

- Syntax
- Example
- Environment variable
- Configuration file

--metrics-port

< PORT

--metrics-port

```
6174 ETHSIGNER_METRICS_PORT = 6174 metrics-port = 6174
```

tls-allow-any-client

Allows any client to connect.

caution Cannot be used with `--tls-allow-ca-clients` and `--tls-known-clients-file` * Syntax * Environment variable * Configuration file

`--tls-allow-any-client` ETHSIGNER_TLS_ALLOW_ANY_CLIENT `tls-allow-any-client`

tls-allow-ca-clients

Allows clients signed with trusted CA certificates to connect.

- Syntax
- Environment variable
- Configuration file

`--tls-allow-ca-clients` ETHSIGNER_TLS_ALLOW_CA_CLIENTS `tls-allow-ca-clients`

tls-keystore-file

PKCS #12 formatted keystore. Used to enable TLS for [client connections](#) .

- Syntax
- Example
- Environment variable
- Configuration file

--tls-keystore-file

< keystoreFile

--tls-keystore-file

```
/Users/me/my_node/certificate.pfx ETHSIGNER_TLS_KEYSTORE_FILE = /Users/me/my_node/certificate.pfx
tls-keystore-file = "/Users/me/my_node/certificate.pfx"
```

tls-keystore-password-file

Password file used to decrypt the keystore.

- Syntax
- Example
- Environment variable
- Configuration file

--tls-keystore-password-file

< passwordFile

--tls-keystore-password-file

```
/Users/me/my_node/password.txt ETHSIGNER_TLS_KEYSTORE_PASSWORD_FILE =
/Users/me/my_node/password.txt tls-keystore-password-file = /Users/me/my_node/password.txt
```

tls-known-clients-file

File containing the SHA-256 fingerprints of [authorized clients](#) .

- Syntax
- Example

- Environment variable
- Configuration file

--tls-known-clients-file

< clientsFile

--tls-known-clients-file

```
/Users/me/my_node/knownClients ETHSIGNER_TLS_KNOWN_CLIENTS_FILE =  
/Users/me/my_node/knownClients tls-known-clients-file = "/Users/me/my_node/knownClients"
```

help

Displays the help and exits.

- Syntax

-h, --help

version

Displays the version and exits.

- Syntax

-V, --version [Edit this page](#) Last updated on Mar 30, 2023 by Eric Lin [Previous](#) [Reference](#) [Next](#) [Subcommands](#)