

# Subcommands

EthSigner signs transaction with a key stored in an encrypted file or an external vault. The EthSigner subcommands are used to specify the keys used to sign transactions:

- ethsigner [Options] file-based-signer [File Options]
- ethsigner [Options] hashicorp-signer [Hashicorp Options]
- ethsigner [Options] azure-signer [Azure Options]
- ethsigner [Options] multikey-signer [Multikey Options]

The [file-based-signer](#) , [hashicorp-signer](#) , and [azure-signer](#) subcommands are used for [single keys only](#) , and the [multikey-signer](#) subcommand is used for [one or more keys](#) .

caution Only one [signing key subcommand](#) can be used.

## Specifying subcommand options

The subcommand to use must be specified on the command line, but the subcommand options can be specified:

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

For example, you can set the options for the azure-signer subcommand in environment variables or a configuration file, but the subcommand must be specified in the command line

info ethsigner --config-file = ./config.toml azure-signer 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 subcommand option, the equivalent environment variable is:

- Upper-case
- \_
- replaces-
- Has an ETHSIGNER\_
- +\_
- prefix. For example set azure-signer --client-id
- using the ETHSIGNER\_AZURE\_SIGNER\_CLIENT\_ID
- environment variable.

note Only subcommand options can be set in environment variables. The actual subcommand must be specified in the command line.

## View help

To view the command line help for the subcommands:

- [ethsigner help file-based-signer](#)
- [ethsigner help hashicorp-signer](#)
- [ethsigner help azure-signer](#)
- [ethsigner help multikey-signer](#)

## Options

### file-based-signer

#### key-file

File containing [key with which transactions are signed](#) .

- Syntax

- Example
- Environment variable
- Configuration file

## -k, --key-file

< keyFile

### --key-file

```
/Users/me/my_node/transactionKey ETHSIGNER_FILE_BASED_SIGNER_KEY_FILE =
/Users/me/my_node/transactionKey file-based-signer.key-file = "/Users/me/my_node/transactionKey"
```

#### password-file

File containing password for the [key with which transactions are signed](#) .

- Syntax
- Example
- Environment variable
- Configuration file

## -p, --password-file

< passwordFile

### --password-file

```
/Users/me/my_node/password ETHSIGNER_FILE_BASED_SIGNER_PASSWORD_FILE =
/Users/me/my_node/password file-based-signer.password-file = "/Users/me/my_node/password"
```

#### hashicorp-signer

##### auth-file

File containing authentication data for HashiCorp Vault. The authentication data is the [root token displayed by the HashiCorp Vault server](#) .

- Syntax
- Example
- Environment variable
- Configuration file

### --auth-file

< authFile

### --auth-file

```
/Users/me/my_node/auth_file ETHSIGNER_HASHICORP_SIGNER_AUTH_FILE =
/Users/me/my_node/auth_file hashicorp-signer.auth-file = "/Users/me/my_node/auth_file"
```

#### host

Host of the HashiCorp Vault server. Default is localhost .

- Syntax
- Example
- Environment variable
- Configuration file

## --host

< serverHost

## --host

"10.0.0.3" ETHSIGNER\_HASHICORP\_SIGNER\_HOST = 10.0 .0.3 hashicorp-signer.host = "10.0.0.3"

### port

Port of the HashiCorp Vault server. Default is 8200.

- Syntax
- Example
- Environment variable
- Configuration file

## --port

< serverPort

## --port

23000 ETHSIGNER\_HASHICORP\_SIGNER\_PORT = 23000 hashicorp-signer.port = 23000

### signing-key-path

Path to secret in the HashiCorp Vault containing the private key for signing transactions. Default is /secret/data/ethsignerSigningKey .

- Syntax
- Example
- Environment variable
- Configuration file

## --signing-key-path

< signingKeyPath

## --signing-key-path

/my\_secret/ethsignerSigningKey ETHSIGNER\_HASHICORP\_SIGNER\_SIGNING\_KEY\_PATH =  
/my\_secret/ethsignerSigningKey hashicorp-signer.signing-key-path = "/my\_secret/ethsignerSigningKey"

### timeout

Timeout in milliseconds for requests to the HashiCorp Vault server. Default is 10000.

- Syntax

- Example
- Environment variable
- Configuration file

## --timeout

< timeout

## --timeout

5000 ETHSIGNER\_HASHICORP\_SIGNER\_TIMEOUT = 5000 hashicorp-signer.timeout = 5000

### tls-enabled

Connect to HashiCorp Vault server using TLS. Default is true .

- Syntax
- Example
- Environment variable
- Configuration file

--tls-enabled [ = < true | false

] --tls-enabled = false ETHSIGNER\_HASHICORP\_SIGNER\_TLS\_ENABLED = false hashicorp-signer.tls-enabled = false

### tls-known-server-file

File containing the hostname, port, and SHA256 certificate fingerprint of the HashiCorp Vault server.

- Syntax
- Example
- Environment variable
- Configuration file

## --tls-known-server-file

< hashicorpServerFile

## --tls-known-server-file

/Users/me/my\_node/knownHashicorpServers  
 ETHSIGNER\_HASHICORP\_SIGNER\_TLS\_KNOWN\_SERVER\_FILE =  
 /Users/me/my\_node/knownHashicorpServers hashicorp-signer.tls-known-server-file =  
 "/Users/me/my\_node/knownHashicorpServers"

### azure-signer

#### client-id

ID used to authenticate with Azure Key Vault.

- Syntax
- Example
- Environment variable
- Configuration file

# --client-id

< clientID

## --client-id

"MyClientID" ETHSIGNER\_AZURE\_SIGNER\_CLIENT\_ID = MyClientID azure-signer.client-id = "MyClientID"

### client-secret-path

Path to file containing secret used to access the vault.

- Syntax
- Example
- Environment variable
- Configuration file

# --client-secret-path

< clientSecretPath

## --client-secret-path

/Path/MySecret ETHSIGNER\_AZURE\_SIGNER\_CLIENT\_SECRET\_PATH = "/Path/MySecret" azure-signer.client-secret-path = /Path/MySecret

### key-name

Name of key to be used.

- Syntax
- Example
- Environment variable
- Configuration file

# --key-name

< keyName

## --key-name

"MyKey" ETHSIGNER\_AZURE\_SIGNER\_KEY\_NAME = MyKey azure-signer.key-name = "MyKey"

### key-version

Version of the specified key to use.

- Syntax
- Example
- Environment variable
- Configuration file

# --key-version

< keyVersion

## --key-version

```
"7c01fe58d68148bba5824ce418241092" ETHSIGNER_AZURE_SIGNER_KEY_VERSION =  
7c01fe58d68148bba5824ce418241092 azure-signer.key-version = "7c01fe58d68148bba5824ce418241092"
```

### keyvault-name

,key-vault-name

Name of the vault to access. Sub-domain of vault.azure.net .

- Syntax
- Example
- Environment variable
- Configuration file

## --keyvault-name

< keyVaultName

## --keyvault-name

```
"MyKeyVault" ETHSIGNER_AZURE_SIGNER_KEY_VAULT_NAME = MyKeyVault azure-signer.keyvault-name  
= "MyKeyVault"
```

### tenant-id

The tenant ID of the Azure Portal instance being used.

- Syntax
- Example
- Environment variable
- Configuration file

## --tenant-id

< STRING

## --tenant-id

```
34255fb0-379b-4a1a-bd47-d211ab86df81 ETHSIGNER_AZURE_SIGNER_TENANT_ID = 34255fb0-379b-4a1a-  
bd47-d211ab86df81 azure-signer.tenant-id = "34255fb0-379b-4a1a-bd47-d211ab86df81"
```

### multikey-signer

### directory

Path to the directory containing the [TOML files](#) required to access keys.

- Syntax
- Example
- Environment variable
- Configuration file

# --directory

< directoryPath

## --directory

/Users/me/keys ETHSIGNER\_MULTIKEY\_SIGNER\_DIRECTORY = /Users/me/keys multikey-signer.directory =  
"/Users/me/keys" [Edit this page](#) Last updated on Mar 30, 2023 by Eric Lin [Previous Options](#) [Next API methods](#)