NAME

torsocks — Library for intercepting outgoing network connections and redirecting them through the Tor SOCKS proxy.

DESCRIPTION

Torsocks library overloads the libc symbols use for Internet communication such as **connect(2)** system call. Using that technique, the library sends everything through the Tor network including DNS resolution done by the application.

For DNS, **gethostbyname(3)** family functions are rerouted through Tor. Please note that the ISC res_* API is currently not supported.

Here is an example on how to use torsocks library with **ssh(1)**:

$ LD_PRELOAD=/path/to/libtorsocks.so ssh -l kalexander -p 1234 prism.nsa.gov [...]

SHELL USAGE

Set LD_PRELOAD to load the library then use applications as normal. The syntax to force preload of the library for different shells is specified below:

Bash, Ksh and Bourne shell:

$ export LD_PRELOAD=/path/to/libtorsocks.so

C Shell:

$ setenv LD_PRELOAD=/path/to/libtorsocks.so

This process can be automated (for Bash, Bourne and Korn shell users) for a single command or for all commands in a shell session by using the **torsocks(1)** script.

You can also setup **torsocks(1)** in such a way that all processes automatically use it, a very useful configuration. Please refer to the torsocks script documentation for more information.

ENVIRONMENT VARIABLES

TORSOCKS_CONF_FILE

This environment variable overrides the default location of the torsocks configuration file. This variable is not honored if the program torsocks is embedded in is setuid.

TORSOCKS_LOG_LEVEL

Enable logging level of torsocks library. By default, warnings and errors are printed (level 3). Note that each level includes the lower ones except the 1 which disables any possible logging. (default: 3)

1   No log at all.
2   Error messages.
3   Warning messages.
4   Notice messages.
5   Debug messages.

TORSOCKS_LOG_TIME
        Control whether or not the time is added to each logging line. (default: 1)

TORSOCKS_LOG_FILE_PATH
        If set, torsocks will log in the file set by this variable. (default: stderr)

TORSOCKS_USERNAME
        Set the username for the SOCKS5 authentication method. Password MUST be set also with the
        variable below.

TORSOCKS_PASSWORD
        Set the password for the SOCKS5 authentication method. Username MUST be set also with the
        variable above.

TORSOCKS_TOR_ADDRESS
        Set the Tor address. (default: 127.0.0.1)

TORSOCKS_TOR_PORT
        Set the Tor port. (default: 9050)

TORSOCKS_ALLOW_INBOUND
        Allow inbound connections so the application can accept and listen for connections.

TORSOCKS_ISOLATE_PID
        Set the username and password for the SOCKS5 authentication method to a PID/current time
        based value automatically. Username and Password MUST NOT be set.

KNOWN ISSUES
DNS
        Torsocks is not able to send DNS queries through Tor since UDP is not supported. Thus, any UDP socket is
        denied. However, DNS queries that can be intercept are sent to Tor and sent back to the caller.

ERRORS
        Torsocks might generate error messages and print them to stderr when there are problems with the configu-
        ration file or the SOCKS negotiation with the Tor daemon. The TORSOCKS_LOG_LEVEL environment
        variable controls that behavior as well as the log file option. Keep in mind that this library can output on the
        stderr of the application.

LIMITATIONS
        Outgoing TCP connections can only be proxified through the Tor network.

        Torsocks forces the libc resolver to use TCP for name queries, if it does this it does it regardless of whether
        or not the DNS to be queried is local or not. This introduces overhead and should only be used when
        needed.

        Torsocks uses ELF dynamic loader features to intercept dynamic function calls from programs in which it
        is embedded. As a result, non-ELF executables, or executables that make system calls directly with the sys-
        tem call trap (int 0x80) are not supported.

FILES
          /etc/tor/torsocks.conf - default torsocks configuration file

SEE ALSO
          torsocks.conf(5), torsocks(1)

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