

NAME

Net::SSLLeay::Handle - Perl module that lets SSL (HTTPS) sockets be handled as standard file handles.

SYNOPSIS

```
use Net::SSLLeay::Handle qw/shutdown/;
my ($host, $port) = ("localhost", 443);

tie(*SSL, "Net::SSLLeay::Handle", $host, $port);

print SSL "GET / HTTP/1.0\r\n";
shutdown(\*SSL, 1);
print while (<SSL>);
close SSL;
```

DESCRIPTION

[Net::SSLLeay::Handle](#) allows you to request and receive HTTPS web pages using “old-fashion” file handles as in:

```
print SSL "GET / HTTP/1.0\r\n";
```

and

```
print while (<SSL>);
```

If you export the shutdown routine, then the only extra code that you need to add to your program is the tie function as in:

```
my $socket;
if ($scheme eq "https") {
    tie(*S2, "Net::SSLLeay::Handle", $host, $port);
    $socket = \*S2;
} else {
    $socket = Net::SSLLeay::Handle->make_socket($host, $port);
}
print $socket $request_headers;
...
```

FUNCTIONS

shutdown

```
shutdown(\*SOCKET, $mode)
```

Calls to the main *shutdown()* don't work with tied sockets created with this module. This shutdown should be able to distinguish between tied and untied sockets and do the right thing.

debug

```
my $debug = Net::SSLLeay::Handle->debug()
Net::SSLLeay::Handle->debug(1)
```

Get/set debugging mode. Always returns the debug value before the function call. if an additional argument is given the debug option will be set to this value.

make_socket

```
my $sock = Net::SSLLeay::Handle->make_socket($host, $port);
```

Creates a socket that is connected to *\$post* using *\$port*. It uses *\$Net::SSLLeay::proxyhost* and *proxyport* if set and authenticates itself against this proxy depending on *\$Net::SSLLeay::proxyauth*. It also turns autoflush on for the created socket.

USING EXISTING SOCKETS

One of the motivations for writing this module was to avoid duplicating socket creation code (which is mostly error handling). The calls to *tie()* above where it is passed a *\$host* and *\$port* is

provided for convenience testing. If you already have a socket connected to the right host and port, \$S1, then you can do something like:

```
my $socket \*$S1;
if ($scheme eq "https") {
    tie(*S2, "Net::SSLLeay::Handle", $socket);
    $socket = \*$S2;
}
my $last_sel = select($socket); $| = 1; select($last_sel);
print $socket $request_headers;
...

```

Note: As far as I know you must be careful with the globs in the *tie()* function. The first parameter must be a glob (*SOMETHING) and the last parameter must be a reference to a glob (*SOMETHING_ELSE) or a scalar that was assigned to a reference to a glob (as in the example above)

Also, the two globs must be different. When I tried to use the same glob, I got a core dump.

EXPORT

None by default.

You can export the *shutdown()* function.

It is suggested that you do export *shutdown()* or use the fully qualified *Net::SSLLeay::Handle::shutdown()* function to shutdown SSL sockets. It should be smart enough to distinguish between SSL and non-SSL sockets and do the right thing.

EXAMPLES

```
use Net::SSLLeay::Handle qw/shutdown/;
my ($host, $port) = ("localhost", 443);

tie(*SSL, "Net::SSLLeay::Handle", $host, $port);

print SSL "GET / HTTP/1.0\r\n";
shutdown(\*SSL, 1);
print while (<SSL>);
close SSL;

```

TODO

Better error handling. Callback routine?

CAVEATS

Tying to a file handle is a little tricky (for me at least).

The first parameter to *tie()* must be a glob (*SOMETHING) and the last parameter must be a reference to a glob (*SOMETHING_ELSE) or a scalar that was assigned to a reference to a glob (\$s = *SOMETHING_ELSE). Also, the two globs must be different. When I tried to use the same glob, I got a core dump.

I was able to associate attributes to globs created by this module (like *SSL above) by making a hash of hashes keyed by the file handle.

Support for old perls may not be 100%. If in trouble try 5.6.0 or newer.

CHANGES

Please see [Net-SSLLeay-Handle-0.50/Changes](#) file.

KNOWN BUGS

If you let this module construct sockets for you with Perl versions below v.5.6 then there is a slight memory leak. Other upgrade your Perl, or create the sockets yourself. The leak was created to let these older versions of Perl access more than one Handle at a time.

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SEE ALSO

Net::SSLay, *perl*(1), <http://openssl.org/>