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#!/usr/bin/perl -w
#
# This script sends a XMPP (jabber) instant message on motion detection.
# It uses the sendxmpp Perl script from http://sendxmpp.hostname.sk,
# that needs to be installed and working on the same host where ZM is.
# XMPP is free to use and doesn't involve costs, compared to SMS.
# Support on Android smartphones is available in apps as Google Hangouts or
# Xabber.
#
# Requirements:
# 1) a working installation of ZoneMinder;
# 2) a working installation of sendxmpp;
# 3) at least two jabber accounts: one for sending messages, one for receiving;
# 4) a smartphone with a XMPP client configured for the receiver account;
# 5) a ZM monitor configured for motion detection;
# 6) a ZM filter configured for using this script;
# 7) this script, accessible from the zmfilter.pl script;
# 8) file "/etc/zm/zm.sendxmpprc" storing credentials for connecting to the jabber server.
#
# Steps:
# 1) Ensure that you can receive XMPP messages on your smartphone, sent with sendxmpp
# from the command line. To achieve this goal I had to test message exchanging
# between the two accounts from gmail web interface (I already had activated the
# necessary accounts) because Hangouts requires that the accounts be on each other
# contact list to allow messaging.
# 2) Place this script in "/usr/local/bin" or anywhere you like and remember the
# location; change the variable definitions where necessary.
# 3) Create file "/etc/zm/zm.sendxmpprc" with the following content (assumed you're
# using gmail):
# sendersAccount@gmail.com;talk.google.com:5222 password gmail.com
# - replace with your sender's credentials where obvious
# - set owner to "www-data" (assuming ZM is running under that name)
# - set permission to "-rwx-----".
# 4) Run this script from the command line in order to test it's working fine.
# If it's not, don't proceed unless you have fixed the problems.
# 5) Add a filter in ZM for the monitor you want to be warned when motion is detected.
# Mine is like this:
#         Monitor name - equal to - camera1
#         and Cause      - equal to - Motion
#         Execute command on all matches: ticked - pathToThisScript.pl
#
# If I didn't forget to write down anything, XMPP alerting should now be active.
# I'd like to stress that I'm very unfamiliar to Perl. Having this script working
# has been a substantial effort for me: I understand that Perl is very powerful,
# but I find it very unfriendly, and I hope not to have to put my hands inside
# this script again, now that it's working on my machine (as of 2014-07-21).
#
# Author: Gianni Luppi (email address not included on purpose).
#
use strict;
use bytes;
use ZoneMinder;

logInit();
logSetSignal();

# path to sendxmpp Perl script
my $scriptPath = '/usr/bin/sendxmpp' ;

# path to sendxmpp config file used for sending ZM messages
my $configFile = '/etc/zm/zm.sendxmpprc' ;

# receiver's address
my $destAddress = 'receiver@gmail.com' ;

# text of the message you want sent
my $message = 'ZM event' ;

# I'd like to customize the message with filter tokens used in email
# alerts, like "%MN%". Any suggestion?

if ( logDebugging() )
{
    Debug( "I'm about to send XMPP message\n" );
}

# invoking sendxmpp:
# as it expects that text message comes from the standard input,

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# we need to open a file handle that receives input from there.
open(SEND, "| $scriptPath -t -f $configFile $destAddress") || die "send failed: $!\n" ;

# writing message to output
print SEND "$message";

# flush output
close(SEND) ;

if ( logDebugging() )
{
    Debug( "XMPP message sent (perhaps)!\n" );
}
```