

# vpn-keepalive.sh

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#!/bin/bash
# keepalive for ipsec
# 2007 Oliver Voelker <info(at)ovtec.it>

failmax=3 # beim dritten Fehler restarten
keepalive=30 # alle $keepalive Sekunden testen
maxage=120 # maximales Alter der Checkdatei in Sekunden
nextrestart=3600 # nach einem neustart erst wieder in X sekunden probieren

CHECKFILE="/tmp/keep-alive" # Dieses File muss minuetlich durch die VPN-Gegenseite erzeugt werden, z.B.
durch einen Cronjob: "ssh user@bla.de -C touch /tmp/keep-alive"
TMPFILE="/tmp/vpntest-$$"
ADMIN="admin@bla.de" # wird bei Stoerungen informiert
TUNNEL="ipsec-tunnel" # Tunnelname aus ipsec.conf

# do not edit anything beyond this point!

fail=0

MESSAGE=""

function tunnelrestart () {
    MESSAGE="Maxfail ($failmax) reached: restarting tunnel $TUNNEL (age of checkfile $DIFF seconds)"
    logger -p local2.info -t TUNNEL "$MESSAGE"
    /usr/sbin/ipsec auto --down $TUNNEL
    sleep 5
    /usr/sbin/ipsec auto --up $TUNNEL
    echo "tunnel $TUNNEL on `hostname -f` was restarted, because checkfile $CHECKFILE was too old. Please
check!" | mail -s "VPN-Problem on `hostname -f` !" $ADMIN
    touch $TMPFILE
    sleep 120
}

while (true); do
    CHECK=`stat -c"%Y" $CHECKFILE`
    NOW=`date +%s`
    DIFF=`echo $NOW - $CHECK | bc`
```

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if [ "$DIFF" -lt "$maxage" ]; then
    MESSAGE="Tunnel $TUNNEL OK (age of checkfile $DIFF seconds)"
    logger -p local2.info -t TUNNEL "$MESSAGE"
    fail=0
else
    fail=`echo $fail+1|bc`
    MESSAGE="Tunnel $TUNNEL DOWN: $fail (age of checkfile $DIFF seconds with maxage of $maxage)"
    logger -p local2.info -t TUNNEL "$MESSAGE"
fi

if [ "$fail" -ge "$failmax" ] ; then

    if [ -f $TMPFILE ]; then
        ATMP=`stat -c"%Y" $TMPFILE`
        SSLR=`echo $NOW - $ATMP | bc` # seconds since last restart
        if [ "$SSLR" -ge "$nextrestart" ]; then
            rm -f $TMPFILE
            tunnelrestart
            fail=0
        else
            MESSAGE="Maxfail ($failmax) reached, but tunnel was already restarted $SSLR seconds ago. Only one
restart per $nextrestart seconds."
            logger -p local2.info -t TUNNEL "$MESSAGE"
            echo "tunnel $TUNNEL should have been restarted, but this already happened $SSLR seconds ago. Please
check!" | mail -s "BIG VPN-Problem on vpn.meinserver.de!" $ADMIN
        fi
    else
        tunnelrestart
    fi
fi

sleep $keepalive
done

```

Revision #2

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