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Certain scripts can enhance the function of your router with DD-WRT, giving it more features or customizing it towards your needs.

To find out how to load scripts onto the router, see [Startup Scripts](#).

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Modifying \$PATH at Startup

This will add whatever paths you want for \$PATH and \$LD_LIBRARY_PATH before the default system path. Change the paths to whatever you like. Have a good reason for doing this, it should be considered a hack until the feature is implemented permanently.

```
rm -f /tmp/newProfile
head -n1 /etc/profile | sed s!=!/mmc/bin:/whatever/bin:! >> /tmp/newProfile
tail -n1 /etc/profile | sed s!=!/mmc/lib:/whatever/lib:! >> /tmp/newProfile
mount --bind /tmp/newProfile /etc/profile
```

If you're adding /mmc/lib before the system library, in some circumstances you'll also need to do this on startup (after ensuring that the ldconfig on /mmc is up to date and happy):

```
mount --bind /mmc/etc/ld.so.conf /etc/ld.so.conf
mount --bind /mmc/etc/ld.so.cache /etc/ld.so.cache
```

Note: Only do this if you're receiving segmentation faults or your applications are failing to run, and even then only if you feel that this hack is imperative. Also note that if you're attempting this with Optware, the files are ld-opt.so.conf and ld-opt.so.cache

Another alternative to the above mentioned way of altering things is to simply copy /etc/profile to /jffs/etc, change PATH and LD_LIBRARY_PATH and bind the profile to the original location.

```
mkdir /jffs/etc
cp /etc/profile /jffs/etc/profile
cd /jffs/etc
vi profile (change everythings that suite your needs and save it with :x)
```

Afterward put the line below inside a startup script

```
mount --bind /jffs/etc/profile /etc/profile
```

Make sure you're familiar with what you're doing before attempting this, if you end up seeing a lot of segmentation faults when running things like ls, cat, cp, etc, than you'll want to either adjust the above commands, or else put those things into a script and run them manually when you enter your shell.

LED Scripts

See [LED Scripts](#)

Miscellaneous Scripts

Backup settings and restore them

Credit to hardwarewizard and frater

Useful_Scripts

Reference Thread

```
#!/bin/sh
#####
#   Script Requirements
#
#   Files:
#       vars_to_skip
#       vars_preferred
#
#   Programs:
#       curl
#####

#####
# setup variables
#
# DATE           - Date
# MAC            - Mac address
# FILE           - File Name Prefix
# CUR_DIR        - Current Directory
# transfer       - FTP Transfer ON/OFF (Default is OFF)
# FOLDER         - Location where backup scripts are stored
# VARFILE        - Location & Name of Temp File
# TO_ALL         - Location & Name of script File with all nvram variables
# TO_INCLUDE     - Location & Name of script File with essential nvram variables
# TO_EXCLUDE     - Location & Name of script File with dangerous nvram variables
# TO_PREFERRED   - Location & Name of script File with preferred nvram variables
#
#####

DATE=`date +%m%d%Y`
MAC=`nvram get lan_hwaddr | tr -d ":"`
FILE=${MAC}.${DATE}
CUR_DIR=`dirname $0`
transfer=0
FOLDER=/opt/vars/backups
VARFILE=/opt/tmp/all_vars
TO_ALL=${FOLDER}/${MAC}.${DATE}.all.sh
TO_INCLUDE=${FOLDER}/${MAC}.${DATE}.essential.sh
TO_EXCLUDE=${FOLDER}/${MAC}.${DATE}.dangerous.sh
TO_PREFERRED=${FOLDER}/${MAC}.${DATE}.preferred.sh

#####
#FTP Login information change to your info
#####

FTPS=ftp://192.168.1.100/backups
USERPASS=user:pass

#####
# read command line switches
#
#   example command lines
#
#   ./backupvars.sh -t
#
#   The above command with use the user and password and
#   server information embedded in this script.
#   (See FTP Login information above)
#
#
```

Useful_Scripts

```
# ./backupvars.sh -t -u user:pass -f ftp://192.168.1.100/backups
#
# The above command with use the user and password and
# server information from the command line
#
#####

while getopts tu:f: name
do
    case $name in
        t) transfer=1;;
        u) USERPASS="$OPTARG";;
        f) FTPS="$OPTARG";;
        ?) printf "Usage: %s: [-t] [-u username:password] [-f ftpserver]\n"
            exit 2;;
    esac
done
shift $(( $OPTIND - 1 ))

#####
#create NVRAM variabile list and write to /opt/tmp/all_vars
#####

nvramp show 2>/dev/null | egrep '^[A-Za-z][A-Za-z0-9_\.\\-]*=' | awk -F = '{print $1}' | sort -r -u

#####
# Write header to restore scripts
#####

echo -e "#!/bin/sh\n#\necho \"Write variables\"\n" | tee -i ${TO_EXCLUDE} | tee -i ${TO_PREFERRED}

#####
# scan NVRAM variable list and send variable to proper
# restore script
#####

cat ${VARFILE} | while read var
do
    pref=0
    ### replaced with next line by Andon Man?ev : if echo "${var}" | grep -q -f "${CUR_DIR}/vars_to
if cat "${CUR_DIR}/vars_to_skip" | grep -q "${var}" ; then
    bfile=${TO_EXCLUDE}
else
    bfile=${TO_INCLUDE}
    pref=`echo "${var}" | grep -cf "${CUR_DIR}/vars_preferred"`
fi

    # get the data out of the variable
    data=`nvramp get ${var}`
    # write the var to the file and use \ for special chars: (\$`)
    echo -en "nvramp set ${var}=\\" | tee -ia ${TO_ALL} >> ${bfile}
    echo -n "${data}" | sed -e 's/[\$`"\\]/\\&/g' | tee -ia ${TO_ALL} >> ${bfile}
    echo -e "\\" | tee -ia ${TO_ALL} >> ${bfile}
    if [ ! ${pref} == 0 ]; then
        echo -en "nvramp set ${var}=\\" >> ${TO_PREFERRED}
        echo -n "${data}" | sed -e 's/[\$`"\\]/\\&/g' >> ${TO_PREFERRED}
        echo -e "\\" >> ${TO_PREFERRED}
    fi
done

#####
# cleanup remove /opt/tmp/all_vars
```

Useful_Scripts

```
# uncomment to remove file
#####

# rm ${VARFILE}

#####
# Write footer to restore script
#####

echo -e "\n# Commit variables\nnecho \"Save variables to nvram\"\n\nnvram commit" | tee -ia ${TO_ALL}

#####
# Change permissions on restore scripts to make them
# executable
#####

chmod +x ${TO_INCLUDE}
chmod +x ${TO_PREFERRED}
chmod +x ${TO_EXCLUDE}
chmod +x ${TO_ALL}

#####
# Compress restore scripts and send them to ftp server
#####

if [ ${transfer} -ne 0 ] ; then
    tar cpf - -C / "${TO_INCLUDE}" 2>/dev/null | gzip -c | /opt/bin/curl -s -u ${USERPASS} "${FTPS}
    tar cpf - -C / "${TO_PREFERRED}" 2>/dev/null | gzip -c | /opt/bin/curl -s -u ${USERPASS} "${FTPS}
    tar cpf - -C / "${TO_EXCLUDE}" 2>/dev/null | gzip -c | /opt/bin/curl -s -u ${USERPASS} "${FTPS}
    tar cpf - -C / "${TO_ALL}" 2>/dev/null | gzip -c | /opt/bin/curl -s -u ${USERPASS} "${FTPS}/${
fi
```

The vars_to_skip file

```
DD_BOARD
^board
browser_method
^cfe
ct_modules
custom_shutdown_command
^def_
^default_
dist_type
dl_ram_addr
early_startup_command
^et0
^et1
^ezc
generate_key
gozila_action
gpio
^hardware
^is_
^kernel_
lan_default
^lan_hw
^lan_ifname
landevs
manual_boot_nv
misc_io_mode
need_commit
^os_
```

Backup settings and restore them

Useful_Scripts

```
overclocking
pa0maxpwr
phyid_num
pmon_ver
pppd_pppifname
pppoe_ifname
pppoe_wan_ifname
primary_ifname
probe_blacklist
regulation_domain
rescue
reset_
scratch
sdram
^sh_
^skip
sshd_dss_host_key
sshd_rsa_host_key
startup_command
^wan_default
^wan_hw
^wan_if
^wan_vport
^wandevs
web_hook_libraries
^wifi_
wl0.1_hwaddr
wl0.2_hwaddr
wl0.3_hwaddr
wl0_hwaddr
wl0_ifname
wl0_radioids
^wl_
^wlan_
```

The vars_preferred file. This is the file you add your vars to that you want to backup.

```
daylight_time
time_zone
```

this is an updated version

Clear ttraff (WAN bandwidth graph) nvram data

The ttraff daemon can fill up a couple hundred bytes of nvram space every month. This may not seem like much but nvram is only ~32KB total and is full of lots of other data. Disabling ttraff and clearing it's old nvram data is sometimes needed for devices with complex configurations, or to keep the router stable. This script will clear **all** of ttraff's traffic data from nvram whereas using the ttraff GUI button to delete it still leaves the current month's variable.

```
for i in `nvram show | grep ttraff- | cut -f1 -d=" "`; do nvram unset $i; done
```

The other way (NEW, 2012)

If you want to keep always one year of history, use the one below in your startup script to prune old data (no cron needed, and it doesn't require a correct date is set e.g. with ntpd: the script unsets nvram entries elder than 12 months before the most recent data available, i.e. 13 data sets, current month plus last 12). As the aim is to reclaim nvram storage and as the startup script is stored in nvram, I tried to keep it the slimmest possible (no indentation, no function whose declaration would have store more space than duplicated commands, single command per line to spare one out of the two "; " bytes separator (single line return instead), no [tmp]file stored and single letter variables T for Traff or Threshold, D for Dates and N for nvram. Any other shrink trick is welcome. Should you run your dd-wrt unattended for years with traffmon enabled, you should use this script or you'll run one day or the other into a nvram outage and its fancy effects as wireless changing ciphering mode etc... You can adjust how long the log you'll keep will be by changing the integer "100" in the eleventh line: the first loop searches the max (say current) data set date, in YYYYMM format, then the T=`expr ...` line sets the lower (threshold) that will be kept, e.g 200 for 2 years, 109 for 1 year plus 9 months. A last word, about the current data set date "detection". Initial T and subsequent loop could have been replaced by a simple T=`date +%Y%m` or more condensed the script could have begun with T=`expr `date +%Y%m` - 100` (26 chars against 31 -don't forget threshold setting-, but not checked), but as year start on 1970 on startup until a true ntp date is available, the script would not work reliably - although this could be used with the script as custom script ran from cron, say monthly, with the help of a replacement check that year date is not 1970 (or better: higher than eldest data set, to protect against any firmware change, but here the script size increases).

```
#!/bin/sh
T=0
D=`nvram show|grep traff-|cut -f1 -d=|awk -F"- " '{print $3,$2}'|cut -b-4,6-`
for d in $D
do
if [ $T -lt $d ]
then
T=$d
fi
done
T=`expr $T - 100`
for d in $D
do
if [ $T -gt $d ]
then
N=traff-`echo ${d}|cut -b5-`-`echo ${d}|cut -b-4`
nvram unset $N
fi
done
```

Thank you JLL and Glenfarclass and Cardhu for the help --[Bib](#) 02:13, 12 November 2012 (CET)

Compress the Firewall Script (to reduce nvram usage)

If you have a large firewall script you can use this script to compress it with gzip to use less nvram space. See [this thread](#) for full usage info.

```
# Compress Firewall
nvram set pH_fw="`nvram get rc_firewall | gzip | uuencode -m /dev/stdout`"
nvram set rc_firewall="nvram get pH_fw | uuencode -o /tmp/pH_fw.gz;gunzip /tmp/pH_fw.gz;chmod +x /tmp/pH_fw;/tmp/pH_fw"
```

Useful_Scripts

```
nvramp show >/dev/null

# Decompress Firewall
nvramp get pH_fw | uudecode -o /tmp/pH_fw.gz
nvramp unset pH_fw
gunzip /tmp/pH_fw.gz
nvramp set rc_firewall="`cat /tmp/pH_fw`"
nvramp show >/dev/null

# Editing the Firewall
vi /tmp/pH_fw
# finish editing with vi before running the rest
nvramp set rc_firewall="`cat /tmp/pH_fw`"
nvramp show >/dev/null
```

Web Server Wake-up

- Wakes up your web server when the router receives a request from the internet. Credits from [here](#). RET value from that script did not work here, using if ping else statement below. --rasos 29NOV2010

Please note: syslogd needs to be on, logging enabled, with log level set high, and "accepted" on. Following the example script, replace target and MAC values with those of your LAN web server's network information and for "\$WOL -i xxx.xxx.xxx.255", replace xxx.xxx.xxx.255 with your LAN network broadcast address.

```
#!/bin/sh

INTERVAL=5
NUMP=3
OLD=""
WOL=/usr/sbin/wol
TARGET=192.168.3.18
MAC=00:26:18:CF:E1:E1
LOGFILE="/tmp/www/wol.log"

while sleep $INTERVAL;do
  NEW=`awk '/ACCEPT/ && /DST="'$TARGET'"/ && /DPT=80/ {print }' /var/log/messages | tail -1`
  SRC=`awk -F'[=| ]' '/ACCEPT/ && /DST="'$TARGET'"/ && /DPT=80/ {print }' /var/log/messages | tail -1`
  LINE=`awk '/ACCEPT/ && /DST="'$TARGET'"/ && /DPT=80/' /var/log/messages`
  if [ "$NEW" != "" -a "$NEW" != "$OLD" ]; then
    if ping -qc $NUMP $TARGET >/dev/null; then
      echo "$TARGET was accessed by $SRC and is alive at" `date` >> $LOGFILE
    else
      echo "$SRC causes wake on lan at" `date` >> $LOGFILE
      $WOL -i 192.168.3.255 -p 7 $MAC >> $LOGFILE
      sleep 5
    fi
    OLD=$NEW
  fi
done
```

Unfortunately that script wasn't working with V24-SP2's logging. I rewrote it to use dmesg and added some logging messages to help. Thanks go to rasos for the initial script!

```
#!/bin/sh
#Enable JFFS2 and place script in /jffs/ then run on startup in web interface.
#You can check the log from http://192.168.1.1/user/wol.html
```

Useful_Scripts

```
INTERVAL=5
NUMP=3
OLD=""
PORT=80
WOLPORT=9
TARGET=192.168.1.101
BROADCAST=192.168.1.255
MAC=00:11:22:33:44:55
WOL=/usr/sbin/wol
LOGFILE="/tmp/www/wol.html"

echo "<meta http-equiv=\"refresh\" content=\"10\">" > $LOGFILE
echo "AUTO WOL Script started at" `date` "<br>" >> $LOGFILE

while sleep $INTERVAL;do
NEW=`dmesg | awk '/ACCEPT/ && /DST="'$TARGET'"/ && /DPT="'$PORT'"/ {print }' | tail -1`
SRC=`dmesg | awk -F'[=| ]' '/ACCEPT/ && /DST="'$TARGET'"/ && /DPT="'$PORT'"/ {print $7}' | tail -1`
LINE=`dmesg | awk '/ACCEPT/ && /DST="'$TARGET'"/ && /DPT="'$PORT'/'`

if [ "$NEW" != "" -a "$NEW" != "$OLD" ]; then
  if ping -qc $NUMP $TARGET >/dev/null; then
    echo "NOWAKE $TARGET was accessed by $SRC and is already alive at" `date` "<br>">> $LOGFILE
  else
    echo "WAKE $SRC causes wake on lan at" `date` "<br>">> $LOGFILE
    $WOL -i $BROADCAST -p $WOLPORT $MAC >> $LOGFILE
    echo "<br>" >> $LOGFILE
    sleep 5
  fi
  OLD=$NEW
fi
done
```

Auto Random MAC Address

- This script will change your eth1 MAC address to a random address, then it will apply it to the system and restart the interfaces.

```
#!/bin/ash
MAC=`(date; cat /proc/interrupts) | md5sum | sed -r 's/^(.{10}).*$/\1/; s/([0-9a-f]{2})/\1:/g; s/'
echo "00:${MAC}"
ifconfig eth1 hw ether 00:${MAC}
nvram set def_hwaddr="00:${MAC}"
nvram set wan_hwaddr="00:${MAC}"
stopservice wan
startservice wan
```

You may wish to also download *curl* (see *ipkg*), and use it to restart your modem, as some MAC changes may not reflect until your modem "sees" a new address, and they typically only do this when starting up.

Note: *curl* is sometimes problematic to install. You should use *ipkg -force-depends*

An example, to restart a Motorola Surfboard SB4100 cable model is:

```
curl -s -d "BUTTON_INPUT=Restart+Cable+Modem" http://192.168.100.1/configdata.html
```

To restart a Motorola SB5101:

Useful_Scripts

```
curl -d ResetReq=1 http://192.168.100.1/goform/RgConfig
```

I added the following lines to the end of the above to restart a Motorola SB5120 (no curl required!!) and reboot. Running this script in cron, and my ISP won't automatically recover without the following:

```
nvramp commit & sleep 5 && wget http://192.168.100.1/reset.htm?reset_modem=Restart+Cable+Modem
reboot
```

Don't know the reason but Motorola SB5101 only re-started with the two following lines:

```
curl -v -d "RestoreFactoryDefault=1&ResetReq=1" http://192.168.100.1/goform/RgConfig
curl -d ResetReq=1 http://192.168.100.1/goform/RgConfig
```

Wireless Network Scanner (awk -f scanner)

```
#####
```

```
cat - > scanner
```

```
# Show scanresults in consistent order with graphical bars.
# To be run via telnet to WRT54g running modified firmware.
# Do the following. Use your own router address instead of 192.168.1.1 on the following lines
# Login via telnet:
#   telnet 192.168.1.1
# a simple test to make sure you can run this script, type:
#   wl scan; wl scanresults
# and make sure you can run those commands. If not this program will not work.
# If you succeeded with the scanresults then
# copy and paste this entire text into the terminal window
# (the cat - > scanner line will copy the rest of the file into a file named 'scanner')
# and then hit return and then ctrl-c to close the file.
# then just run script by typing the following line:
#   awk -f scanner
#
# I hereby release this into the public domain. Justin Jones, 2005
#
# Jan. '07 corrected bug from '06 improvement.
```

```
BEGIN{
  IGNORECASE = 1;
  command = "wl scan 2> /dev/null ; wl scanresults 2> /dev/null";
  red = "\x1b[31m";          green = "\x1b[32m";
  greenback="\x1b[42m";     yellow = "\x1b[33m";
  cyan = "\x1b[36m";        blue = "\x1b[34m";
  blueback = "\x1b[44m";    white = "\x1b[37m";
  whiteback = "\x1b[47m";   reset = "\x1b[0m";
  underscore = "\x1b[4m";   clear = "\x1b[2J";
  home = "\x1b[0;0H";       erase2end = "\x1b[K";
  cName = white;            cSignal = green;
  cNoise = red;             cCaps = green;
  cStrengthLow = blue blueback; cChannel = green;
  cStrengthMed = white whiteback;
  cStrengthHi = green greenback;
  cStrengthAged = red;

  print clear;
```

Useful_Scripts

```
for(;;)
{
  while (command|getline)
  {
    if(/^SSID/) { name = ; rssi = ;noise= ; rssi=""; noise="";channel="";bssid="";caps=""}
    if(/^Mode/) {rssi = ;noise= ; channel = }
    if(/^BSSID/) {bssid = ; caps = " " " " " " " " " " }
    if(/^Supported/)
      {
        name[bssid] = name
        rssi[bssid] = rssi
        noise[bssid]= noise
        channel[bssid] = channel
        caps[bssid] = caps
      }
  }
  close(command)
  printf home;
  ln = 0;
  print white " Name          BSSID  Signal Noise Channel Type";
  for (x in name)
  {
    {
      #arbitrary strength calc through trial and error... modify as you wish:
      sigstrength = ((rssi[x] - noise[x])*1.5) + ((rssi[x] +90)*1.5);
      if (sigstrength <1) sigstrength=0;
      cStrength = cStrengthLow;
      if(sigstrength>4) cStrength = cStrengthMed;
      if(sigstrength>7) cStrength = cStrengthHi;
      if(age[x]=0) cStrength = cStrengthAged;

      fmt = "%s%-15s %s%0"sigstrength"d "reset erase2end "\n      %s %s%-4d %s%-4d %s%-4d %s%2s
      printf fmt, cName,name[x],cStrength,0,x,cSignal,rssi[x],cNoise,noise[x],cChannel, channel
      rssi[x] = "-1000 xxxx";
      ln++;
    }
  }
  if (ln ==0) print red "No Results - Do you have wl scan capability? \nThis program depends on '
  print erase2end;
}
}
```

Wireless Network Scanner (working on DD-WRT v24)

I took the above script and tweaked it to work in DD-WRT v24 firmware, with the "wl" command.

To run just copy and paste in a console (telnet or ssh) or save as a "scanner.sh" and run as ./scanner.

```
#!/bin/sh

awk -F"[]" " '
BEGIN{
  IGNORECASE = 1;
  command = "site_survey 2>&1";
  red = "\x1b[31m";          green = "\x1b[32m";
  greenback="\x1b[42m";      yellow = "\x1b[33m";
```

Useful_Scripts

```
cyan = "\x1b[36m";          blue = "\x1b[34m";
blueback = "\x1b[44m";      white = "\x1b[37m";
whiteback = "\x1b[47m";    reset = "\x1b[0m";
underscore = "\x1b[4m";    clear = "\x1b[2J";
home = "\x1b[0;0H";        erase2end = "\x1b[K";
cName = white;             cSignal = green;
cNoise = red;              cCaps = green;
cStrengthLow = blue blueback; cChannel = green;
cStrengthMed = white whiteback;
cStrengthHi = green greenback;
cStrengthAged = red;

print clear;
for(;;)
{
  while (command|getline)
  {
    if ( == "") continue;
    bssid=;
    name[bssid] = ;
    rssi[bssid] = ;
    noise[bssid]= ;
    channel[bssid] = ;
    caps[bssid] = ;
    age[bssid] = 1;
  }
  close(command);
  printf home;
  ln = 0;
  print white " Name          BSSID  Signal Noise Channel Type";
  for (x in name)
  {
    #arbitrary strength calc through trial and error... modify as you wish:
    sigstrength = ((rssi[x] - noise[x])*1.5) + ((rssi[x] +90)*1.5);
    if (sigstrength <1) sigstrength=0;
    cStrength = cStrengthLow;
    if(sigstrength>4) cStrength = cStrengthMed;
    if(sigstrength>7) cStrength = cStrengthHi;
    if(age[x]=0) cStrength = cStrengthAged;
    fmt = "%s%-15s %s%0"sigstrength"d "reset erase2end "\n   %s  %s%-4d %s%-4d %s%-4d %s%2s
    printf fmt, cName,name[x],cStrength,0,x,cSignal,rssi[x],cNoise,noise[x],cChannel, channel
    rssi[x] = "-100 xxxx";
    ln++;
  }
  if (ln ==0)
    print red "No results - Do you have survey capability? \nThis program depends on site_survey

  print erase2end;
}
}
```

Name-based WOL (wake.sh)

- Enables you to power on a LAN computer by name instead of IP address/MAC, based on DHCP lease table (mandatory).

Usage: /path/to/wake.sh <hostname> (default hostname is *desktop*)

Useful_Scripts

```
STATION=mm
WOL=/usr/sbin/wol
STATICS=/tmp/udhcpd.statics
DEV=br0

if [ -n "" ]; then
    STATION=
fi

while read LINE
do
    IP=`echo $LINE | awk '{print }'`
    MAC=`echo $LINE | awk '{print }'`
    FOUND=`ip neigh | grep "$IP.*REACHABLE"`
    if [ -z "$FOUND" ]; then
        echo Creating ARP entry for $IP $MAC
        ip neigh add $IP lladdr $MAC dev $DEV nud reachable 2> /dev/null
        ip neigh change $IP lladdr $MAC dev $DEV nud reachable 2> /dev/null
    fi
done < $STATICS

LEASE=`grep "\b$STATION\b$" $STATICS`
if [ -n "$LEASE" ]; then
    IP=`echo $LEASE | awk '{print }'`
    MAC=`echo $LEASE | awk '{print }'`
    $WOL -i $IP $MAC
else
    echo Unable to find "$STATION" in DHCP static file $STATICS, please use "\<hostname\>"
fi
```

Name-based WOL with dnsmasq

I updated the above script to work with dnsmasq dhcp reservation.

```
#!/bin/sh
STATION=$1
WOL=/usr/sbin/wol
STATICS=/tmp/dnsmasq.conf
DEV=br0

if [ -z "$STATION" ]; then
    echo "You must specify the host to wake. Usage: $0 <hostname>"
    exit 1
fi

grep 'dhcp-host' $STATICS | while read LINE
do
    IP=`echo $LINE | awk -F, '{print $3}'`
    MAC=`echo $LINE | awk -F[,]= '{print $2}'`
    FOUND=`ip neigh | grep "$IP.*REACHABLE"`
    if [ -z "$FOUND" ]; then
        echo Creating ARP entry for ip $IP and MAC $MAC
        ip neigh add $IP lladdr $MAC dev $DEV nud reachable 2> /dev/null
        ip neigh change $IP lladdr $MAC dev $DEV nud reachable 2> /dev/null
    fi
done
```

Useful_Scripts

```
LEASE=`grep ",$STATION," $STATICS`
if [ -n "$LEASE" ]; then
    NET=`echo $LEASE | awk -F, '{split($3,ip,".");printf("%s.%s.%s.255",ip[1],ip[2],ip[3])}'`
    IP=`echo $LEASE | awk -F, '{print $3}'`
    MAC=`echo $LEASE | awk -F[,=] '{print $2}'`
    echo Waking up $STATION on broadcast $NET at ip $IP and MAC $MAC
    $WOL -i $NET $MAC
else
    echo "Unable to find \"$STATION\" in DHCP static file $STATICS."
    exit 1
fi
```

Automatic Connection Repair

- Pings your default gateway every time and force a DHCP renew if no packets are received.

Usage: /path/to/always_on.sh &

```
#!/bin/sh
INTERVAL=10
PACKETS=1
UDHCPC="udhcpc -i vlan1 -p /var/run/udhcpc.pid -s /tmp/udhcpc"
IFACE=vlan1

ME=`basename $0`
RUNNING=`ps | awk '/"$ME"/ {++x}; END {print x+0}'`
if [ "$RUNNING" -gt 3 ]; then
    echo "Another instance of \"$ME\" is running"
    exit 1
fi

while sleep $INTERVAL
do
    TARGET=`ip route | awk '/default via/ {print $3}'`
    RET=`ping -c $PACKETS $TARGET 2> /dev/null | awk '/packets received/ {print $4}'`

    if [ "$RET" -ne "$PACKETS" ]; then
        echo "Ping failed, releasing IP address on $IFACE"
        #send a RELEASE signal
        kill -USR2 `cat /var/run/udhcpc.pid` 2> /dev/null
        #ensure udhcpc is not running
        killall udhcpc 2> /dev/null
        echo "Renewing IP address: $IFACE"
        $UDHCPC
        echo "Waiting 10 s..."
        sleep 10
    else
        echo "Network is up via $TARGET"
    fi
done
```

- The following version will work even on resource-starved Linksys WRT54G v8, which lacks most programs needed by the script above. To use it, just add this code to DD-WRT's startup script using the web interface.

```
INTERVAL=10
```

Name-based WOL with dnsmasq

Useful_Scripts

```
while true; do
  while [ \! $gw ]; do
    sleep 30
    route -n >/tmp/routes
    while read dest gw foo; do
      if [ $dest = "0.0.0.0" ]; then
        break
      fi
    done </tmp/routes
  done
  logger "auto-repair: default gateway is $gw"
  while ping -qc 2 $gw >/dev/null ; do
    sleep $INTERVAL
  done
  logger "auto-repair: gateway down, restarting WAN"
  kill -USR1 `cat /var/run/udhcpc.pid`
  unset gw
done &
```

- The following solution is even simpler, but only works on repeaters and clients. To use it, just add this code to DD-WRT's startup script using the web interface.

```
#!/bin/sh
# A startup script that rivals watchdog in repeater or client mode

# When used on a Linksys WRT310N v2 that repeats a dodgy AP,
# we get 7+ day uptimes vs the 3-5h uptimes given by watchdog
# (tested with build 15940) (p.s. New builds don't like wlan bounced, and it prevents client ass
#####

# After a successful ping, wait this long to check again.
# Recommend setting this to the time it takes to grab a cup of coffee
coffee=300

while true; do
  count=0
  until ping -c 2 -W 2 www.google.com; do
    # When we cannot get two consecutive pongs,
    # then attempt to restore connection

    if [ $count -eq 3 ]; then
      # If we have tried bouncing wlan 3 times,
      # then try rebooting the router

      reboot
    fi

    wlan # bounce wlan
    sleep 45 # wait 45 seconds for association
    count=`expr $count + 1`
  done
  sleep $coffee
done
```

Modifying \$PATH Manually (path.sh)

- Enables adjustment of paths on a per-use basis (i.e. when you're running a terminal and need the new paths, run this script.).

Useful_Scripts

```
#!/bin/sh
export PATH=$PATH:/mmc/bin:/whatever/bin
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/mmc/lib:/whatever/lib
```

Alternatively, if you want to give priority to you're personally installed applications (i.e. you've installed a more robust version of grep, and want to use it by default), add the new paths before \$PATH and \$LD_LIBRARY_PATH, as shown below.

```
#!/bin/sh
export PATH=/mmc/bin:/whatever/bin:$PATH
export LD_LIBRARY_PATH=/mmc/lib:/whatever/lib:$LD_LIBRARY_PATH
```

View Logfile in Browser without Local Syslogd (log.sh)

- View the last 1000 lines from your router's logfile in your browser without a locally running syslogd (i.e. Kiwi)

First Method: Script Generated Live-content

Initial post in German forum: [SOLVED: messages \(logdatei\) formatiert über browser aufrufen](#))

```
#!/bin/sh
echo '<HTML><HEAD><TITLE>Logfile</TITLE></HEAD>'
echo '<BODY><br />nvrnm get router_name'
echo ' Logfile:<br><pre>'
/usr/bin/tail -n 1000 /var/log/messages
echo '</BODY></HTML>'
```

To use this script you first need to enable syslog on your router without stating an IP. Then the log will be saved in /var/log/messages. You can do this under Administration->Services and then scroll down to the "System Log" section. Click "Enable" and leave "Remote Server" empty. After you saved the script under /tmp/www/ as "log.sh" you must mark it as executable with "chmod +x /tmp/www/log.sh". You can do that by saving the following in your startup script:

```
echo -en "#!/bin/sh\nnecho '<HTML><HEAD><TITLE>Logfile</TITLE></HEAD>'\nnecho '<BODY>'\nnvrnm get r
```

To view the log in your browser point it to "http://<routerip>/user/log.sh"

It appears that the above method doesn't work under some versions of v24 as shell scripts need to be created in the cgi-bin folder in order for the webserver to execute them.

If you find the previous startup script doesn't work, try the following:

```
mkdir /tmp/www/cgi-bin
echo -en "#!/bin/sh\nnecho '<HTML><HEAD><TITLE>Logfile</TITLE></HEAD>'\nnecho '<BODY>'\nnvrnm get r
chmod +x /tmp/www/cgi-bin/log.sh
```

and use `http://<routerip>/user/cgi-bin/log.sh` to access it.

Second Method: Static Generated HTML

Note that it is reported that script-generated content will not be delivered by the web server in v24-RC4 and v24-RC5, maybe other versions are affected too (see [User-HTML \(skript generiert\) funzt nicht :\(](#) in the German forum). If you just get an empty page if using the first method you may use this workaround:

```
echo -en "#!/bin/sh\nrm /tmp/www/syslog.html\nnecho '<HTML><HEAD><TITLE>Logfile (Generated: ' >> /\nchmod +x /tmp/www/log_gen.sh
```

Save the above code to your startup script and create a cron job for it. To generate a HTML log every 15 minutes you could use this job:

```
*/15 * * * * root /tmp/www/log_gen.sh
```

Your router's syslog is now available on `http://<routerip>/user/syslog.html` and will be updated every 15 minutes (or whatever you've set in the cron job).

Speak Your Signal Strength

I use my WRT in client mode to connect to an access point, but I don't have a particularly good signal quality and I often need to re adjust the position of the WRT and its antenna. Unfortunately my computer is not in sight of the WRT and I had to keep going backwards and forwards from my computer to the WRT making adjustments then checking the signal strength on the screen of my computer. This can take ages to set up properly, so I decided to get my computer to use the "festival" speech synthesis program to tell me what the current signal level is.

```
#!/bin/bash
# Use "festival" to say out loud how much signal strength we have

# The IP address of the WRT
ip_addr="192.168.1.1"

# The username and password for the WRT
user="root"
pass="admin"

# Tempory file used to hold the data from the WRT
tmp_file=/tmp/wrt.status

echo
echo "The signal level is:-"
echo
echo "The signal level is" | festival --tts

while true ; do
  wget --http-user=$user --http-password=$pass http://$ip_addr/Status_Wireless.live.asp -O $tmp_f
  signal=`awk -F '"' '/active_wireless/ { print   }' $tmp_file`
  echo $signal | awk '{printf"Signal   :   "\t";for(;j<;j++)printf"=";printf"\n"}'

  if [[ -n $signal ]] ; then
    echo $signal | festival --tts
```

Useful_Scripts

```
else
    echo "Not associated" | festival --tts
fi
done
```

This works by using the same process as the 'Status-->Wireless' page i.e. it gets a chunk of data by wget'ing the Status_Wireless.live.asp page from the WRT then running awk to get the relevant chunk of data (the signal strength) and then piping that into the festival speech engine.

Now I just run this script and turn up the volume on my computer when I need to move the antenna.

Small Security Script (Firewall)

```
#!/bin/sh

#
# Warning! As I don't use Emule or similiar programs I can't guaranty their function.
# If you find a workable solution just add it to this wiki.
# I found testing some of the setting manually that the ipfrag settings will break emule,
# maybe some others too...
#
# Enjoy your enhanced security,
#
# St. Karitzl
# info@user1.walztech.de
# http://daywalker81.de.vu

echo 1 > /proc/sys/net/ipv4/icmp_echo_ignore_all
echo 1 > /proc/sys/net/ipv4/icmp_echo_ignore_broadcasts
echo 1 > /proc/sys/net/ipv4/ip_forward

# the following two parametes will break at least emule and are way too low to make sense.
#echo 1024 > /proc/sys/net/ipv4/ipfrag_high_thresh
#echo 512 > /proc/sys/net/ipv4/ipfrag_low_thresh
echo 64000 > /proc/sys/net/ipv4/ipfrag_high_thresh
echo 48000 > /proc/sys/net/ipv4/ipfrag_low_thresh
#

echo 10 > /proc/sys/net/ipv4/ipfrag_time
echo 5 > /proc/sys/net/ipv4/icmp_ratelimit
echo 1 > /proc/sys/net/ipv4/tcp_syncookies
echo 0 > /proc/sys/net/ipv4/conf/eth1/accept_source_route
echo 0 > /proc/sys/net/ipv4/conf/eth1/accept_redirects
echo 1 > /proc/sys/net/ipv4/conf/eth1/log_martians
echo 10 > /proc/sys/net/ipv4/neigh/eth1/locktime
echo 0 > /proc/sys/net/ipv4/conf/eth1/proxy_arp
echo 50 > /proc/sys/net/ipv4/neigh/eth1/gc_stale_time

#
# The following entries secure the last bit and provide a
# moderate protection against man-in-the-middle attacks.
#

echo 0 > /proc/sys/net/ipv4/conf/eth1/send_redirects
echo 0 > /proc/sys/net/ipv4/conf/eth1/secure_redirects
echo 1 > /proc/sys/net/ipv4/icmp_ignore_bogus_error_responses
echo 5 > /proc/sys/net/ipv4/igmp_max_memberships
echo 2 > /proc/sys/net/ipv4/igmp_max_msf
```

Useful_Scripts

```
echo 1024 > /proc/sys/net/ipv4/tcp_max_orphans
echo 2 > /proc/sys/net/ipv4/tcp_syn_retries
echo 2 > /proc/sys/net/ipv4/tcp_synack_retries
echo 1 > /proc/sys/net/ipv4/tcp_abort_on_overflow
echo 10 > /proc/sys/net/ipv4/tcp_fin_timeout
echo 0 > /proc/sys/net/ipv4/route/redirect_number
echo 1 > /proc/sys/net/ipv4/conf/all/rp_filter
echo 1 > /proc/sys/net/ipv4/conf/eth1/rp_filter
echo 1 > /proc/sys/net/ipv4/tcp_syncookies
echo 0 > /proc/sys/net/ipv4/conf/all/accept_source_route
echo 61 > /proc/sys/net/ipv4/ip_default_ttl

# DoS protection by tweaking the timeouts
echo "1800" > /proc/sys/net/ipv4/tcp_keepalive_time
echo "0" > /proc/sys/net/ipv4/tcp_window_scaling
echo "0" > /proc/sys/net/ipv4/tcp_sack

# We pretend to be a Checkpoint firewall on Windows XP
echo 4096 87380 4194304 >/proc/sys/net/ipv4/tcp_rmem
echo 4096 87380 4194304 >/proc/sys/net/ipv4/tcp_wmem

# Check network overload (explicit congestion notification)
echo 1 > /proc/sys/net/ipv4/tcp_ecn

# Change port range for outgoing traffic
echo "30000 60000" > /proc/sys/net/ipv4/ip_local_port_range

# Change default queue size
# Modified for DD-WRT because of missing proc entries

echo 4096 > /proc/sys/net/ipv4/ip_contrack_max

# LED signal feedback when script ends
sleep 1
gpio enable 3
sleep 1
gpio disable 3
sleep 1
gpio enable 3
sleep 1
gpio disable 2
sleep 1
gpio enable 2
sleep 1
gpio disable 2

# If you'd like to disable the web interface uncomment
# the following line
#killall httpd
```

Attention, you might have to change eth1 to the actual WAN (external) interface.

Installation is pretty simple:

1. Log on to your WRT
2. type `cd /jffs`
3. type `vi sec.sh` (or any other name) and enter the script
4. Connect to your WRT via web browser, page Administration:Commands
5. Enter the script name (sec.sh) into the command field

6. Click on "Save Startup"
7. Reboot router

As a simple test try to ping your router. You should get no response otherwise you have to find the error.

Secure remote management for a WAP (Firewall scripts)

Regards to the help of [phusi0n](#) dd-wrt guru and of [HP](#) from ubuntu-fr

This requires a recent (>12533) build to prevent milw0rm and to have the Disable "Allow any remote IP" feature. Also requires you have set the necessary port forwards in the gateways(s) on the path.

```
iptables -I INPUT -p icmp --icmp-type echo-request -m state --state NEW -j ACCEPT
iptables -I INPUT -i lo -j ACCEPT
IP_LAN=`ifconfig br0 | grep inet | cut -d: -f2 | cut -d' ' -f1`
MSK=`ifconfig br0 | grep inet | cut -d: -f4`
iptables -I INPUT -p tcp -s $IP_LAN/$MSK -d $IP_LAN -m multiport --dports `nvram get sshd_port`,`
iptables -I INPUT -p tcp -s `nvram get remote_ip | awk '{print $1}'` -d $IP_LAN -m multiport --dports `nvram get sshd_port`,`
iptables -I INPUT -p tcp -d $IP_LAN --dport `nvram get sshd_port` --syn -m state --state NEW -j ACCEPT
# iptables -I INPUT -p udp --sport 68 --dport 67 -m state --state NEW -j ACCEPT # uncomment if you want
iptables -I INPUT -d $IP_LAN -m state --state ESTABLISHED,RELATED -j ACCEPT
iptables -A INPUT -j logdrop
```

This allows the lowest (first) IP address set in the "Allow any remote IP" feature to connect to the https and ssh servers in the WAP (you just need the password and/or the private key) ;). In addition, all LAN ip are allowed to do the same, plus classic http. Although the "Allow any remote IP" feature doesn't work at this time when the router is set as a WAP (LAN-LAN link to the gateway, so no routing and WAN disabled, dhcp off and other stuff), this convenient script will use the first "remote_ip" you set in the GUI (whether the feature is enabled or not, as long as you stored at least one IP) and will follow the changes you could do to its static lan ip/netmask and ssh server port. Now you have full benefit of the GUI from a remote static IP and can leave the forwards enabled on the path.

EDIT 2011/06/25: even with elder releases, the remote IP can be hardcoded in the script, replacing ``nvram get remote_ip | awk '{print $1}'`` by the actual IP.

--[Bib](#) 14:03, 17 May 2010 (CEST)

Note: 2nd line as per [iptables command wiki](#), but I'm not sure this is still required here. This allows remote ssh/https. With no need to change the script, you can also occasionally enable lan-only simple http access from within the GUI for some operations (firmware backup/restore/upgrade): in secured management page, just temporarily check the HTTP checkbox, apply and reconnect without https. Or do this from ssh:

```
nvram set http_enable=1 && nvram commit && killall httpd && httpd -S
```

and when you finished the job, set it back:

```
nvram set http_enable=0 && nvram commit && killall httpd && httpd -S
```

--[Bib](#)

Directory Listing for DD-WRT Micro

Since the Micro version of DD-WRT doesn't provide a ls command, here is a very simple script to list directory contents

```
#!/bin/sh
files=`echo *`
for x in $files; do
  if [ -d $x ]; then
    echo -n "$x/ "
  else
    echo -n "$x "
  fi
done
echo
```

See the [Telnet/SSH and the Command Line](#) Talk page for other variants.

Reset Wireless Radio

This script solves an intermittent problem on my NetGear WNDR3300 wireless N radio. Every few hours, the wireless N radio stops broadcasting and cannot be seen by wireless clients. Bringing the wireless interface down and then back up resolves the issue. This script pings a wireless client, in my case, a WET610N wireless bridge that should always remain up and only connects to the wireless N radio. If the ping fails twice within a given time, it brings the interface down and then back up.

To get this to work on Atheros hardware, replace the two 'wl - i'... comands with 'ifconfig'... (e.g., this fixes wifi dropouts on my Buffalo WZR-HP-G300NH)

```
#!/bin/sh

# This script solves an intermitent problem on my
# NetGear WNDR3300 wireless N radio. Every few
# hours, the wireless N radio stops broadcasting
# and cannot be seen by wireless clients. Bringing
# the wireless interface down and then back up
# resolves the issue. This script pings a
# wireless client, in my case, a WET610N wireless
# bridge that should always remain up and only
# connects to the wireless N radio. If the
# ping fails twice within a given time, it
# brings the interface down and then back up.

# A wireless client that should always be up
CLIENT_IP=192.168.35.250

# Wireless interface that disappears
INTERFACE=`nvram get wl0_ifname`

# seconds to wait after failed ping to try again
FAIL_AGAIN=10

# seconds between checks
```

Useful_Scripts

```
CHECK_EVERY=60

# after cycling, wait this many seconds
AFTER_CYCLE=360

# Client must be up before starting main loop
while true
do
  if ping -c 1 ${CLIENT_IP} >/dev/null
  then
    echo "${CLIENT_UP} ok - begining main loop"
    break
  fi
done

# main script
while sleep ${CHECK_EVERY}
do
  if ping -c 1 ${CLIENT_IP} >/dev/null
  then
    echo "${CLIENT_IP} ok"
  else
    echo "${CLIENT_IP} dropped one"
    sleep ${FAIL_AGAIN}
    if ! ping -c 1 ${CLIENT_IP} >/dev/null
    then
      echo "${CLIENT_IP} dropped two, sending restarting ${INTERFACE}"
      # on Atheros hardware instead use: ifconfig ${INTERFACE} down
      wl -i ${INTERFACE} down
      sleep 3
      # on Atheros hardware instead use: ifconfig ${INTERFACE} up
      wl -i ${INTERFACE} up
      sleep ${AFTER_CYCLE}
    fi
  fi
done 2>&1
```

Display Connection Counts Per IP

For local IP's

```
for i in `grep 0x /proc/net/arp | cut -d ' ' -f1`; do echo "$i connection count: $(grep -c $i /pr
```

For all IP's

```
for i in `grep 0x /proc/net/arp | cut -d ' ' -f1`; do echo "$i connection count: $(grep -c $i /pr
```

L2TP Fix for HOT users (obsolete)

Script for HOT users at Israel who can't connect using L2TP because DD-WRT default setting for "refuse pap=yes" while HOT setting is the opposite. Fix was risen by aviad_ra @

<http://www.dd-wrt.com/phpBB2/viewtopic.php?t=17002&postdays=0&postorder=asc&highlight=l2tp&start=15>

Useful_Scripts

This is a cleaned up version of the same script. Add the script as a startup script.

```
#!/bin/sh
while : ; do
    logger -s -p local0.notice -t L2TP "Validating \"refuse pap = no\""
    while [[ -e /tmp/xl2tpd/xl2tpd.conf && -n "`cat /tmp/xl2tpd/xl2tpd.conf | grep "refuse pap"
    do
        logger -s -p local0.notice -t L2TP "Fix is needed as \"refuse pap = yes\""
        cat /tmp/xl2tpd/xl2tpd.conf | sed s/"refuse pap = yes"/"refuse pap = no"/g > /tmp/
        mv /tmp/xl2tpd/xl2tpd.conf.tmp /tmp/xl2tpd/xl2tpd.conf
        logger -s -p local0.notice -t L2TP "xl2tpd.conf has been fixed"
        sleep 5
    done
    sleep 30
done&
```

Email Bandwidth Usage Daily

This script will email you with the previous day's and total month's bandwidth usage. Edit it with your sendmail SMTP info.

[More in-depth examples](#)

[Original Forum Topic](#)

```
#!/bin/sh

fnc_mail() {
    subj="$1"
    msg="$2"
    if [ -z "$3" -o "$(dirname $3)" = "." ]; then logfile="/tmp/lastmail.log"; else logfile="$3";

    sendmail -S"smtp.comcast.net" -f"sender@comcast.net" -F"DD-WRT" -d"comcast.net" -s"$subj" -m"$
}

#Parse the previous day and monthly totals and send an email
aff="aff" #keyword workaround
yday=$(date -D %s -d $(( $(date +%s) - 86400)) +%d)
ymon=$(date -D %s -d $(( $(date +%s) - 86400)) +tr$aff-%m-%Y)
if [ $(date +%d) -eq 1 ]; then monmsg="Last Month"; else monmsg="Month to Date"; fi
msg=$(nvram get $ymon | awk '{print $'yday', $NF}' | sed 's/\([^:]*\):\([^ ]*\) \[\([^:]*\):\([^ ]*\)
fnc_mail "Bandwidth Report" "$msg" "/tmp/bwmail.log"
```

Update Allowed Remote IP Range by DNS lookup

If you are allowing Remote Access to manage your router from a remote location, this script will update the IP address range via a DNS lookup, in the event that the IP address assigned to the remote location changes. For home users, an account with a DDNS service such as DynDNS will work.

```
#Variables
#
# use a 10 minute interval
INTERVAL=600
```

Useful_Scripts

```
#set DNS entry to check
REMOTE_DNS=*CHANGE TO YOUR DNS*

##### Body of Script #####
while sleep $INTERVAL
do

# Set remote IP variable
REMOTE_IP=`ping -c 1 $REMOTE_DNS | grep "^PING" | cut -f3 -d" " | cut -f2 -d "(" | cut -f1 -d ")"`

#Set ending octet variable to be one more than the last octet of the remote address
let ENDING_OCTET=`echo $REMOTE_IP | cut -f4 -d "."`+1

#determine the current IP address that's used for remote management
CURRENT_ADMIN_IP=`nvram get remote_ip | awk '{print $1}'`

### If the remote IP has changed, then change the admim IP setting

if [ "$CURRENT_ADMIN_IP" != "$REMOTE_IP" ]; then

    #configure WAP to allow this IP address to connect remotely
    nvram set remote_ip="$REMOTE_IP $ENDING_OCTET"

    #save nvram settings
    nvram commit > /dev/null 2>&1

fi

done

### End of script
```

DynDNS Updates Using Curl (with HTTPS/SSL Support)

DD-WRT's included inadyn client does not support HTTPS updates. This means your credentials are sent in cleartext across the Internet whenever an update is made. Using optware and curl, we can make secure updates over HTTPS instead of HTTP

```
#!/bin/sh
# DynDNS Updater Script, with HTTPS/SSL Support
# This example uses NameCheap's HTTPS/SSL URL update method to update the IP for hostname.example
# Edit the settings section to match your DynDNS provider, including the DDNS URL which will be u
# This script requires curl and its CA Bundle to be installed in /opt/usr/bin, see the DynDNS art
# alfer@fusebin.com

### SETTINGS SECTION ###
UPDATE_INTERVAL=300
DDNS_DOMAIN=example.com
DDNS_HOSTNAME=hostname
DDNS_USERNAME=username
DDNS_PASSWORD=password123
DDNS_URL="https://dynamicdns.park-your-domain.com/update?domain=$DDNS_DOMAIN&password=$DDNS_PASSW

LOG_FILE=/var/log/dyndns.log
CURL_LOG_FILE=/var/log/curl.log
CURL_LOCATION=/opt/usr/bin/curl
CA_BUNDLE=/opt/usr/bin/ca-bundle.crt
```

Useful_Scripts

```
### END SETTINGS SECTION

while sleep $UPDATE_INTERVAL
do
    CURRENT_TIME=`date`
    CURRENT_WAN_IP=`nvram get wan_ipaddr`
    LAST_WAN_IP=`nvram get wan_ipaddr_last`
    DNS_IP=`nslookup $DDNS_HOSTNAME.$DDNS_DOMAIN 8.8.8.8 | grep Address | tail -n 1 | awk '{p
    DDNS_UPDATE_COMMAND="$CURL_LOCATION -o $CURL_LOG_FILE --cacert $CA_BUNDLE $DDNS_URL"

    # Check if IP Address has changed from last locally stored IP
    if [ $CURRENT_WAN_IP != $LAST_WAN_IP ]; then
        echo "$CURRENT_TIME: IP has changed from $LAST_WAN_IP to $CURRENT_WAN_IP" >> $LOG
        # Update the last locally stored IP
        nvram set wan_ipaddr_last=$CURRENT_WAN_IP
        nvram commit
        $DDNS_UPDATE_COMMAND
        echo "$CURRENT_TIME: Updated DynDNS Service, server sent response:" >> $LOG_FILE
        echo -e "\n" >> $LOG_FILE
        cat $CURL_LOG_FILE >> $LOG_FILE
        echo -e "\n" >> $LOG_FILE
        rm $CURL_LOG_FILE
        continue

    # Check if IP Address has changed from what DNS is reporting
    elif [ $CURRENT_WAN_IP != $DNS_IP ]; then
        echo "$CURRENT_TIME: DNS IP not up to date, currently: $DNS_IP, but our IP is $CURL
        $DDNS_UPDATE_COMMAND
        echo "$CURRENT_TIME: Updated DynDNS Service, server sent response:" >> $LOG_FILE
        echo -e "\n" >> $LOG_FILE
        cat $CURL_LOG_FILE >> $LOG_FILE
        echo -e "\n" >> $LOG_FILE
        rm $CURL_LOG_FILE

    fi
done
```

Other Useful Misc. Scripts

These scripts will be executed through either SSH or Telnet. Once logged into you router via one of these methods, the following are quite useful:

df - Displays mounted external devices, such as USB storage. Use **df -h** to see the actual size va

mount - Mounts an external device such as a USB HDD (Example: **mount /dev/scsi/host0/bus0/target0**

mount --bind - Binds an old directory to a new directory (Example: **mount --bind /tmp/mnt/tmp**) - T

umount - Unmounts the external device

top - Displays all running processes including the CPU usage, Memory Usage and so on

dmesg | more - Will display Router information one segment at a time (terminal window size) and b

netstat -an - Will display all incoming/outgoing connections

ps - Will display all running processes - Use **ps --help** to display more options.

Useful_Scripts

free - *Displays current memory statistics, and be used with extensions (Example: **free -l**) - Use f*

cat - *Very, very useful and can display all input/output messages from the router" (Example: **cat***

nvrn show - *Displays every nvrn variable and available nvrn space*

nvrn set - *Set the value of an nvrn variable (Example: **nvrn set rc_firewall="echo hello"**)*

nvrn unset - *Deletes an nvrn variable, not only its content (Example: **nvrn unset traff-13-2110***

nvrn commit - *Commits nvrn variables to the flash chip*

reboot - *Reboots the router, and must be used after an nvrn commit*

cd /jffs - *Changes to the jffs directory*

cd /mnt - *Changes to the mounted directory*

cd /opt - *Changes to the /opt directory*

These commands can also be bound. (Example: cd /mnt/opt/etc)

NOTE: The following commands are used when the above commands have been executed

mkdir - *Makes a directory, in which of course you need to specify (Example: **mkdir /mnt/jffs**) To m*

rmdir - *Removes the specified directory*

rm - *Removes a directory (Example: **cd /opt then rm -rf ***) -> Removes the/opt directory*

killall - *kill a specific process (Example: **killall syslogd**)*

sleep - *Causes the process to delay startup for specified time (Example: **sleep 20 && /opt/bin/bus***

chown - *Change the owner and/or group of each FILE to OWNER and/or GROUP - Type **chown --help** for*

chmod - *Allows permissions changing on directories (Example: **chmod +x /jffs/etc/config/**) - The **+x***

stopservice - *Stops the specified service (Example: **stopservice upnp**) - Replace **stop** with **start** t*

See Also

[LED Scripts](#)

[Startup Scripts](#)

[Script Examples](#)