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#!/bin/bash

#
# Originally was "dumps salerno's data partitions to the backup disk
# PAR - JILA - 12/7/2005"
# Modified for dunwellguitar3 backups to usb drives with a rotation
# of four weekly disks each containing a Saturday Full and daily incrementals.
# Mod - 08/12/2013 Modify to work with software raid, all hw-raid VolGroup
# stuff removed. See the version with hwRaid in the name for old.
# Mod- 02/25/2016 - Switch over to CenOS 7 and new partition names. Three
partitions.
# With COS7 disks are now XFS structure, not ext3/4. So use xfsdump now, not
dump.
#
KEEP_DAYS="19" # number of days worth of backups to keep
YYMMDD=`date +%y%m%d`
DATE=`date | colrm 21 24` # need to take out the MST
BKP_PART="/mnt/usb"
TODAY=`date +%a`
ZERO_DAY="Sat" # the day of the week when the level 0 backups runs
# all other days are level 1
LOGFILE="${BKP_PART}/dumplog"
HOSTNAME=`/bin/hostname`

MAILLIST="MyEmailHere"
MAILDATA=""

if [[ ${TODAY} == ${ZERO_DAY} ]]; then
    LEVEL="0"
    SESLAB="Full"
#echo "==== in level 0===="
else
    LEVEL="1"
    SESLAB="Incremental"
fi

echo "***** ${DATE}" >> ${LOGFILE}

# first make sure it is dismounted anywhere as /media and /mnt /run
if [ -d /media/backupusb ]
then
    umount -lf /media/backupusb
fi
if [ -d /mnt/usb ]
then
    umount -lf /mnt/usb >> /dev/null
#echo "==== in the umount mntusb===="
fi
if [ -d /run/media/dunwell/backupusb ]

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then
  umount -lf /run/media/dunwell/backupusb >>/dev/null
fi
#
# Then mount
mount --rw LABEL=backupusb /mnt/usb -t xfs
blah=$?
if [ "${blah}" -ne 0 ]
then
  echo "Error Mounting USB Drive to /mnt/usb. Error = ${blah}"
  MAILDATA="${MAILDATA}\n\n Error Mounting /dev/sdb to /mnt/usb. Error = ${blah}"
  echo "${MAILDATA}" | mail -s "Backup problem on ${HOSTNAME}" "${MAILLIST}"
  exit
fi
#echo "***** Mount OK." >> ${LOGFILE}
# let it all settle for a bit.
sleep 30

# / filesystem
# Modified 02/04/2013 to do the purge of old files first. Running out of space
otherwise.
#   in partition, keep_days ago      name match      if match then rm
{ }=current_file_name \=knockdown for ;=terminate exec
  find ${BKP_PART} -mtime +${KEEP_DAYS} -name "slash.lev${LEVEL}*" -exec rm {} \;
  find ${BKP_PART} -mtime +${KEEP_DAYS} -name "boot.lev${LEVEL}*" -exec rm {} \;
  find ${BKP_PART} -mtime +${KEEP_DAYS} -name "home.lev${LEVEL}*" -exec rm {} \;
# set up 'do not dump' flag for /mnt/usb. only needed for the "/" slash backup
chattr -R +d ${BKP_PART}
#
# Do the backups
#Session 0#  dump with level 0 or 1, -e exclude  "/mnt/usb",
#           -z Compression level 6, -L Session Label, -f Filespec
#/dev/sda1 = /boot
#/dev/md127 = / (slash)
if !(/sbin/xfsdump -l ${LEVEL} -e -L "Session ${SESLAB}" -M "" \
  -f ${BKP_PART}/slash.lev${LEVEL}.${YMMDD}.dump / )
then
  MAILDATA="${MAILDATA}\n\n Possible problem with / backup on ${HOSTNAME}."
fi
if !(/sbin/xfsdump -l ${LEVEL} -L "Session ${SESLAB}" -M "" \
  -f ${BKP_PART}/boot.lev${LEVEL}.${YMMDD}.dump /boot)
then
  MAILDATA="${MAILDATA}"\n\n "Possible problem with boot partition backup on
${HOSTNAME}."
fi
#/dev/md125 = /home
if !(/sbin/xfsdump -l ${LEVEL} -L "Session ${SESLAB}" -M "" \
  -f ${BKP_PART}/home.lev${LEVEL}.${YMMDD}.dump /home)
then
  MAILDATA="${MAILDATA}\n\n Possible problem with / backup on ${HOSTNAME}."

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fi

# Wait a bit to make sure that all the writing is done and the
# disk has settled.
sleep 30
ENDDATE=`date`
echo "***** Dump finished at ${ENDDATE}" >> ${LOGFILE}

# dismount it again
if !(umount -fl ${BKP_PART}) ;then
    MAILDATA="${MAILDATA}\n\n Error Dismounting USB Drive from ${BKP_PART}"
    echo "Error Dis-Mounting USB Drive from ${BKP_PART}"
fi

if [[ "${MAILDATA}" != '' ]] ;then
    echo "${MAILDATA}" | mail -s "Backup problem on $HOSTNAME" "${MAILLIST}"
fi
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