

Automounting usb drives is udev

I've a GoFlexNet that runs Slackware Arm that I like to use as NAS (nice to be able to do software raid with the 2 sata drives). Along with having an array I also wanted to be able to share any usb disk really quickly without having to interact in any way with the appliance: this is what I came up with:

The idea is to use the volume labels to have the usb drive mounted and exported via NFS. Any partition that has no label or that is linux swap will be ignored. Well the umounting upon drive unplug is pointless but it also cleans up the exported filesystems avoiding writes in the parent directory.

I wrote a couple of really simple udev rules to call the management program:

```
root@nas:~# cat /etc/udev/rules.d/99-persistent-personal.rules
ACTION=="add",KERNEL=="sd[a-z][1-9]", PROGRAM="automount"
ACTION=="remove",KERNEL=="sd[a-z][1-9]", PROGRAM="automount"
root@nas:~#
```

And this is the management script

```
root@nas:~# cat /lib/udev/automount
#!/bin/bash
PATH=/bin:/usr/bin:/usr/local/bin:/sbin:/usr/sbin
#echo "$(date) " >> /tmp/env.txt
#/usr/bin/env >> /tmp/env.txt
#id >> /tmp/env.txt
DEV=$(basename $DEVNAME)
LABEL=$(ls -l /dev/disk/by-label/ |grep $DEV |awk '{print $(NF-2)}')
[ "$LABEL" = "" ] && LABEL=$ID_FS_LABEL
[ "$LABEL" = "" ] && exit
[ "$ID_PART_ENTRY_TYPE" = "0x82" ] && exit

echo "$DEV $LABEL $ACTION" >> /tmp/env.txt

case $ACTION in
add) mkdir -p /mnt/exports/$LABEL
    logger "automount: add $LABEL"
    exportfs -u */mnt/exports/$LABEL
    mount LABEL=$LABEL /mnt/exports/$LABEL
    [ $(grep -c "^/mnt/exports/$LABEL" /etc/exports) -eq 0 ] && \
    echo "/mnt/exports/$LABEL
*(rw,no_root_squash,no_subtree_check,nohide)" >> /etc/exports
    exportfs -r -a
    ;;
remove)
    logger "automount: remove $LABEL"
    exportfs -u */mnt/exports/$LABEL
    mount -o remount,ro /mnt/exports/$LABEL
    umount /mnt/exports/$LABEL
    rmdir /mnt/exports/$LABEL
```

```
;;  
esac  
  
root@nas:~#
```

This is what my `/etc/exports` looks like initially:

```
root@nas:~# cat /etc/exports  
# See exports(5) for a description.  
# This file contains a list of all directories exported to other computers.  
# It is used by rpc.nfsd and rpc.mountd.  
/mnt/exports *(rw,no_root_squash,no_subtree_check,crossmnt)  
root@nas:~#
```

it gets populated with new lines as the usb drives come and go. The only thing you may want to do before unplugging any usb drive is remounting the filesystem ReadOnly on the nas manually. There aren't any buttons on the GoFlexNet that can be used to trigger this unfortunately,

Sources

[howtos](#), [author](#) , [louigi600](#)

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