GNU/Linux Administration - Feature #255

Bind or Remount Part Of File Hierarchy At Another Directory

12/03/2013 02:20 PM - Daniel Curtis

Status:	Closed		**Start date:**	12/03/2013
Priority:	Normal		**Due date:**	
Assignee:	Daniel Curtis		**% Done:**	100%
Category:			**Estimated time:**	0.50 hour
Target version:			**Spent time:**	0.50 hour

Description

If you are using Linux kernel v2.4.0+, you can remount part of the file hierarchy somewhere else using the following mount command syntax. This is useful for NFS servers in /exports. You must type the following commands as the root user. The syntax is:

```
mount --bind /path/to/olddir /path/to/newdir
mount -B olddir newdir
```

The syntax for /etc/fstab entry is:

```
/olddir /newdir none bind
```

In this example, mount /home/multimedia/mp3 and /home/multimedia/videos as follows:

```
mkdir -p /exports/{music,videos}
mount --bind /home/multimedia/mp3 /exports/music
mount --bind /home/multimedia/videos /exports/videos
```

Verify new settings:

```
mount
df -a
mount | egrep -i --color 'music|videos'
```

Update /etc/fstab file as follows:

```
vi /etc/fstab
```

Append the following:

```
/home/multimedia/mp3 /exports/music none bind
/home/multimedia/videos /exports/videos
```

Save and close the file.