

GNU/Linux Administration - Feature #918

Add btrfs RAID10 Array on Arch Linux

01/13/2018 09:04 PM - Daniel Curtis

Status:	Closed	Start date:	01/14/2018
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Workstation	Estimated time:	0.50 hour
Target version:	Arch Linux	Spent time:	1.00 hour

Description

I recently nuked my Raspberry Pi with an external btrfs RAID10 array, but I forgot to backup the fstab file. However setting up the array again is fairly simple. This is a guide on setting up an already made btrfs RAID10 array on Arch Linux.

Prepare the Environment

- Make sure the system is up to date:

```
sudo pacman -Syu
```

- Install the btrfs-progs package:

```
sudo pacman -S btrfs-progs
```

Configure the Array

- Scan all devices

```
btrfs device scan
```

- Print information about all of the btrfs filesystems:

```
btrfs filesystem show
```

- This should output something similar to the following:

```
Label: none  uuid: a881d8b5-6b33-4b1c-b02f-7062a853b89c
Total devices 4 FS bytes used 161.50GiB
devid    1 size 59.62GiB used 57.01GiB path /dev/sda
devid    2 size 59.62GiB used 57.01GiB path /dev/sdb
devid    3 size 119.25GiB used 116.00GiB path /dev/sdc
devid    4 size 119.25GiB used 116.00GiB path /dev/sdd
```

- Make the mount path:

```
sudo mkdir -p /media/usbraid
```

- Manually mount the btrfs RAID10 array:

```
sudo mount /dev/disk/by-uuid/a881d8b5-6b33-4b1c-b02f-7062a853b89c /media/usbraid/
```

- Edit the fstab config:

```
sudo nano /etc/fstab
```

- And append the following to the end of the file:

```
UUID=a881d8b5-6b33-4b1c-b02f-7062a853b89c /media/usbraid btrfs device=/dev/sda,d  
evice=/dev/sdb,device=/dev/sdc,device=/dev/sdd 0 0
```

Resources

- https://btrfs.wiki.kernel.org/index.php/Using_Btrfs_with_Multiple_Devices

History

#1 - 01/13/2018 09:05 PM - Daniel Curtis

- % Done changed from 0 to 100

- Status changed from New to Resolved

- Subject changed from Add btrfs RAID10 Array on Linux to Add btrfs RAID10 Array on Arch Linux

#2 - 03/19/2018 08:52 PM - Daniel Curtis

- Status changed from Resolved to Closed