

GNU/Linux Administration - Support #645

NFS Sharing on Arch

08/26/2015 03:52 PM - Daniel Curtis

Status:	Closed	Start date:	08/26/2015
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Network Attached Storage	Estimated time:	0.50 hour
Target version:	Arch Linux	Spent time:	1.00 hour

Description

This is a guide on mounting a remote NFS share on Arch linux.

Prepare the environment

- Make sure the system is up to date:

```
sudo pacman -Syu
```

Setup NFS Server

- Install nfs-utils package:

```
pacman -S nfs-utils
```

- Edit the exports file:

```
vi /etc/exports
```

- Setup a read-only public share to the 192.168.1.0 network:

```
/srv/nfs/public 192.168.1.0/24(ro,all_squash,insecure,no_subtree_check)
```

- Start and enable the nfs-server at boot:

```
systemctl enable nfs-server  
systemctl start nfs-server
```

Mount the NFS Share

- Install nfs-utils package:

```
pacman -S nfs-utils
```

- Start and enable rpcbind.service,nfs-client.target and remote-fs.target services at boot:

```
systemctl enable rpcbind.service  
systemctl enable nfs-client.target  
systemctl enable remote-fs.target
```

```
systemctl start rpcbind.service
systemctl start nfs-client.target
systemctl start remote-fs.target
```

Manual Mounting

- Mount NFS share:

```
mount -t nfs nas.example.com:/srv/nfs/public /media/public
```

/etc/fstab

- Using fstab is useful for a server which is always on, and the NFS shares are available whenever the client boots up. Edit /etc/fstab file:

```
vi /etc/fstab
```

- And add an appropriate line reflecting the setup. Again, the server's NFS export root is omitted.

```
nas.example.com:/srv/nfs/public /media/public nfs rsize=32768,wsiz=32768,timeo=900,
retrans=5,_netdev 0 0
```

Resources

- <https://wiki.archlinux.org/index.php/NFS>

History

#1 - 08/26/2015 04:01 PM - Daniel Curtis

- Status changed from *New* to *In Progress*
- % Done changed from *0* to *50*

#2 - 09/04/2015 11:50 PM - Daniel Curtis

- Status changed from *In Progress* to *Resolved*

#3 - 09/11/2015 05:22 PM - Daniel Curtis

- Status changed from *Resolved* to *Closed*
- % Done changed from *50* to *100*

#4 - 03/18/2018 08:48 PM - Daniel Curtis

- Subject changed from *Mount An NFS Share on Arch* to *NFS Sharing on Arch*
- Description updated