

Arvados - Bug #2439

'df' shows permission denied for other user's FUSE mounts

03/25/2014 02:10 PM - Jonathan Sheffi

Status:	Resolved	Start date:	03/24/2014
Priority:	Normal	Due date:	
Assigned To:	Brett Smith	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	2014-07-16 Sprint		
Description			
why's it say 'permission denied'?			
jsheffi@shell.qr1hi:~\$ df			
df: `/home/peter/mnt': Permission denied			
Filesystem 1K-blocks Used Available Use% Mounted on			
rootfs 8256952 6271188 1566336 81% /			
udev 10240 0 10240 0% /dev			
tmpfs 170160 41032 129128 25% /run			
/dev/xvda1 8256952 6271188 1566336 81% /			
tmpfs 5120 0 5120 0% /run/lock			
tmpfs 523820 0 523820 0% /run/shm			
/dev/xvdb 153899044 54755436 99143608 36% /scratch			

History

#1 - 05/07/2014 11:18 AM - Tom Clegg

- Target version set to 2014-05-28 Pipeline Factory

#2 - 05/07/2014 11:18 AM - Tom Clegg

- Story points set to 0.5

#3 - 05/07/2014 03:23 PM - Peter Amstutz

- Subject changed from df bug? to 'df' shows permission denied for other user's FUSE mounts

#4 - 05/07/2014 04:18 PM - Peter Amstutz

- Target version deleted (2014-05-28 Pipeline Factory)

#5 - 06/13/2014 02:49 PM - Tom Clegg

- Target version set to 2014-07-16 Sprint

#6 - 06/18/2014 03:52 PM - Brett Smith

- Assigned To set to Brett Smith

#7 - 06/19/2014 04:19 PM - Brett Smith

I think the best solution is for Puppet to install this script on our shell nodes as /usr/local/bin/df:

```
#!/bin/sh
exec df -x fuse "$@"
```

This general issue consistently comes up in bug reports and the consensus is that the onus is on df to be smarter.

- [Debian bug - about Docker integration](#)
- [Red Hat bug the first](#)
- [Red Hat bug the second](#) (note: exact same bug, exact same basic answer years later)

Obviously my solution isn't perfect (it might not help people who modify \$PATH) but I think it solves our immediate "bad first impression" problem with an appropriate amount of effort.

#8 - 06/20/2014 09:17 AM - Brett Smith

- Status changed from New to Resolved

Brett Smith wrote:

I think the best solution is for Puppet to install this script on our shell nodes as `/usr/local/bin/df`:

I asked for feedback on IRC and Peter and Tim both supported this approach. Looking at our system configuration, I found an even better solution: we have a shell file that gets sourced for all interactive sessions to help set up Arvados environment. I added code here to alias `df` as described. This is a better fit because it means it's more likely to help users (e.g., not thwarted by `$PATH` changes), and less likely to interfere with init scripts or other noninteractive users of `df`.

Reviewed and approved by Ward, and pushed to our system configuration.