

FreeNAS - Bug #34744

Add -sec=sys to NFS when using Kerberos keytabs

06/10/2018 05:37 AM - Mark Guzman

Status: Done	
Priority: No priority	
Assignee: Vladimir Vinogradenko	
Category: Middleware	
Target version: 11.2-BETA1	
Seen in: Master - FreeNAS Nightlies	Needs Merging: No
Severity: Medium	Needs Automation: No
Reason for Closing:	Support Suite Ticket: n/a
Reason for Blocked:	Hardware Configuration:
Needs QA: Yes	ChangeLog Required: No
Needs Doc: No	

Description

I tried switching to the nightly builds and upon rebooting found two issues.

1) the stored config reported a network/host conflict for any export with a host restriction:

Jun 9 21:08:34 freenas mountd³²⁹⁵: network/host conflict

Jun 9 21:08:34 freenas mountd³²⁹⁵: bad exports list line '/mnt/ark/web -maproot'

2) resolving the host restriction error did not result in functional nfs. no clients were able to interact with the system. no errors were reported on the freenas side.

switching back to 11.1u4 brought things back to normal. I will setup a VM for further testing.

Associated revisions

Revision e4521762 - 06/18/2018 12:05 PM - Vladimir Vinogradenko

fix(nfs): add -sec=sys if we have kerberos keytabs

It was lost when porting sh -> python

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Revision 5ea1d589 - 06/19/2018 02:46 AM - Vladimir Vinogradenko

fix(nfs): Fix invalid syntax for multiple networks

Ticket: #34744

Revision f3fedd84 - 06/22/2018 12:27 PM - Vladimir Vinogradenko

fix(nfs): add -sec=sys if we have kerberos keytabs

It was lost when porting sh -> python

Ticket: #34744

fix(nfs): Fix invalid syntax for multiple networks

Ticket: #34744

History

#1 - 06/11/2018 07:29 AM - Dru Lavigne

- Status changed from Unscreened to Blocked
- Private changed from No to Yes
- Reason for Blocked set to Need additional information from Author

Mark: once you have a chance to test and reproduce, please attach a debug (System -> Advanced -> Save Debug) to this ticket.

#2 - 06/15/2018 11:48 PM - Mark Guzman

Tried the latest nightly. Similar issues. I've got things working at this point but there were a few issues to work around. It all looks to stem from the exports file construction.

On first boot from a working 11.1u4:

```
Jun 16 02:16:32 freenas mountd[3064]: network/host conflict
Jun 16 02:16:32 freenas mountd[3064]: bad exports list line '/mnt/ark/homes -alldirs -maproot'
```

The file that leads to that looks like:

```
/mnt/ark/homes -alldirs -maproot="root":"wheel" -sec=sys -network 192.168.1.0/24 -network 10.0.1.0/24 -network
10.0.0.0/24 -network 192.168.14.0/24
```

Removing the network specs gets us further but I still can't mount from any nfsv4 clients. On linux clients I'm seeing error messages like:

```
NFS: state manager: check lease failed on NFSv4 server freenas with error 10016
```

According to the RFC this is telling the client we're not agreed on the security flavor

```
/// NFS4ERR_WRONGSEC = 10016,/* wrong security flavor */
```

Looking at the exports file I noticed

```
V4: / -sec=krb5:krb5i:krb5p
```

Changing that to

```
V4: / -sec=sys
```

has mounts working.

I've tried adding back the network restrictions but as soon as I add more than one I get the "network/host conflict" error. This holds when the networks are directly connected and the freenas host has addresses assigned on them.

It's functional now and I plan on leaving it running this way to get the recent nfsv4 leak fixes. Let me know if there's any other debugging I can/should do.

#3 - 06/16/2018 08:00 AM - Mark Guzman

I had to reboot because of [#31065](#) and I tried a few different things including removing the V4 line which did not work.

#4 - 06/17/2018 05:29 AM - Dru Lavigne

Mark: please attach a debug to this ticket.

#5 - 06/17/2018 06:28 AM - Mark Guzman

I just tried to do that and it resulted in a reboot (I assume due to [#31065](#)). I'll send along the crash dump shortly and maybe the config dump from freenas-debug. Running all of the outputs doesn't seem viable.

#6 - 06/17/2018 10:48 AM - Mark Guzman

- File *fndebug-postboot-20180617.tgz* added

I ran it post boot prior to editing the exports file so there were no nfs connections.

#7 - 06/18/2018 05:59 AM - Dru Lavigne

- Assignee changed from *Release Council* to *Alexander Motin*

Sasha: this may or may not be a dupe of 31065.

#8 - 06/18/2018 06:17 AM - Dru Lavigne

- Status changed from *Blocked* to *Unscreened*

- Reason for *Blocked* deleted (*Need additional information from Author*)

#9 - 06/18/2018 06:59 AM - Mark Guzman

This isn't related to [#31065](#). I only reference it because that ticket causes crashes on this system. This looks to be limited to the code that generates /etc/exports and the addition of a default nfsv4 config line which supersedes and conflicts with the older nfsv3 definitions.

I'm not sure about the network mask behavior, at some point in the mountd history I think there was a limitation of one subnet mask.

#10 - 06/18/2018 10:41 AM - Mark Guzman

Looking at the code I believe it's

https://github.com/freenas/freenas/blob/7b9d1b84f90ecb8c3e7f6f47a657726e3e1698f5/src/middleware/middleware/etc_files/nfsd.py#L13

It looks like this was added about a month ago and assumes that anyone who has kerberos enabled for auth will want kerberized nfs.

#11 - 06/18/2018 12:01 PM - Alexander Motin

- Category changed from *OS* to *Middleware*

- Assignee changed from *Alexander Motin* to *Vladimir Vinogradenko*

#12 - 06/18/2018 12:14 PM - Vladimir Vinogradenko

- Status changed from *Unscreened* to *Ready for Testing*

#13 - 06/18/2018 02:02 PM - Dru Lavigne

- Needs Merging changed from *Yes* to *No*

Master PR: <https://github.com/freenas/freenas/pull/1390>

#14 - 06/18/2018 02:03 PM - Dru Lavigne

- File deleted (fndebug-postboot-20180617.tgz)

#15 - 06/18/2018 02:04 PM - Dru Lavigne

- Subject changed from *nfs non-functional in nightlies* to *Add -sec=sys to NFS if when using Kerberos keytabs*

- Needs Doc changed from *Yes* to *No*

#16 - 06/18/2018 02:04 PM - Dru Lavigne

- Private changed from *Yes* to *No*

#17 - 06/18/2018 02:39 PM - Alexander Motin

I suspect that the patch could fix only the second part of the report, while multiple network may still be broken, since there was a behavior change while porting the code to middlewared, and I suspect that the new one is broken.

#18 - 06/19/2018 09:18 AM - Dru Lavigne

Master PR for additional fix: <https://github.com/freenas/freenas/pull/1398>

#19 - 06/19/2018 12:11 PM - Dru Lavigne

- Target version changed from *Backlog* to *11.2-BETA1*

- Seen in changed from *11.2-BETA1* to *Master - FreeNAS Nightlies*

#20 - 06/21/2018 12:21 PM - Dru Lavigne

- Subject changed from *Add -sec=sys to NFS if when using Kerberos keytabs* to *Add -sec=sys to NFS when using Kerberos keytabs*

#21 - 07/09/2018 08:28 AM - Dru Lavigne

- Status changed from *Ready for Testing* to *Done*