

FreeNAS - Bug #8910

freenas update process should do a better job of reporting the out-of-space condition

03/27/2015 01:27 PM - Cy Mike

Status:	Closed: Duplicate	
Priority:	Nice to have	
Assignee:	Sean Fagan	
Category:	OS	
Target version:	N/A	
Seen in:	9.3-RELEASE	Needs Merging: Yes
Severity:	New	Needs Automation: No
Reason for Closing:		Support Suite Ticket: n/a
Reason for Blocked:		Hardware Configuration:
Needs QA:	Yes	ChangeLog Required: No
Needs Doc:	Yes	

Description

FreeNAS-9.3-STABLE-201503071634

ran:

```
# freenas-update update
```

ended like so:

```
GRUB configuration updated successfully
Created successfully
RunCommand(/sbin/zfs, ['-snapshot', u'freenas-boot/grub@Pre-Upgrade-FreeNAS-9.3-STABLE-201503200528'])
RunCommand(/usr/local/sbin/beadm, ['mount', u'FreeNAS-9.3-STABLE-201503200528', '/tmp/tmpzDjOC1'])
Mounted successfully on '/tmp/tmpzDjOC1'
RunCommand(/sbin/umount, ['-f', '/boot/grub'])
RunCommand(/sbin/mount, ['-t', 'devfs', 'devfs', '/tmp/tmpzDjOC1/dev'])
RunCommand(/sbin/mount, ['-t', 'tmpfs', 'tmpfs', '/tmp/tmpzDjOC1/var/tmp'])
RunCommand(/sbin/mount, ['-t', 'zfs', 'freenas-boot/grub', '/tmp/tmpzDjOC1/boot/grub'])
Searching for base-os-9.3-STABLE-b2b14ab-01034a4-d191868.tgz
Found package file /var/db/system/UpdateUpdate-m4DA1b/base-os-9.3-STABLE-b2b14ab-01034a4-d191868.tgz
Searching for FreeNASUI-9.3-STABLE-b2b14ab-01034a4-d191868.tgz
Found package file /var/db/system/UpdateUpdate-m4DA1b/FreeNASUI-9.3-STABLE-b2b14ab-01034a4-d191868.tgz
Searching for freenas-pkg-tools-9.3-STABLE-e9293b2.tgz
Searching for freenas-pkg-tools-9.3-STABLE-d58c0c8-9.3-STABLE-e9293b2.tgz
Found package file /var/db/system/UpdateUpdate-m4DA1b/freenas-pkg-tools-9.3-STABLE-d58c0c8-9.3-STABLE-e9293b2.tgz
Installer got packages [{u'base-os': <open file u'/var/db/system/UpdateUpdate-m4DA1b/base-os-9.3-STABLE-b2b14ab-01034a4-d191868.tgz', mode 'r' at 0x8061f09c0>}, {u'FreeNASUI': <open file u'/var/db/system/UpdateUpdate-m4DA1b/FreeNASUI-9.3-STABLE-b2b14ab-01034a4-d191868.tgz', mode 'r' at 0x806ca5b70>}, {u'freenas-pkg-tools': <open file u'/var/db/system/UpdateUpdate-m4DA1b/freenas-pkg-tools-9.3-STABLE-d58c0c8-9.3-STABLE-e9293b2.tgz', mode 'r' at 0x806ca5f60>}]
Installing package {u'base-os': <open file u'/var/db/system/UpdateUpdate-m4DA1b/base-os-9.3-STABLE-b2b14ab-01034a4-d191868.tgz', mode 'r' at 0x8061f09c0>}
```

```
base-os-9.3-STABLE-b2b14ab-01034a4-d191868
upgrade_aware = True
Update got exception during update: [Errno 28] No space left on device: '/tmp/tmpzDjOC1/usr/local/
lib/python2.7/site-packages/django/contrib/formtools/locale/ne/LC_MESSAGES/django.mo'
RunCommand(/sbin/umount, ['-f', '/tmp/tmpzDjOC1/boot/grub'])
RunCommand(/sbin/mount, ['/boot/grub'])
RunCommand(/sbin/umount, ['-f', '/tmp/tmpzDjOC1/dev'])
RunCommand(/sbin/umount, ['-f', '/tmp/tmpzDjOC1/var/tmp'])
RunCommand(/usr/local/sbin/beadm, ['unmount', '-f', u'FreeNAS-9.3-STABLE-201503200528'])
Unmounted successfully
RunCommand(/usr/local/sbin/beadm, ['destroy', '-F', u'FreeNAS-9.3-STABLE-201503200528'])
GRUB configuration updated successfully
Destroyed successfully
Traceback (most recent call last):
  File "/usr/local/bin/freenas-update", line 168, in <module>
    sys.exit(main())
  File "/usr/local/bin/freenas-update", line 153, in main
    rv = Update.ApplyUpdate(download_dir)
  File "/usr/local/lib/freenasOS/Update.py", line 746, in ApplyUpdate
    raise e
OSError: [Errno 28] No space left on device: '/tmp/tmpzDjOC1/usr/local/lib/python2.7/site-packages
/django/contrib/formtools/locale/ne/LC_MESSAGES/django.mo'
```

Running freenas-update update again right now. This is a system I generally only access remote by ssh.

Related issues:

Is duplicate of FreeNAS - Bug #11029: Actually prune old boot environments wh...

Closed: Not To Be Done 03/27/2015 09/19/2016

History

#1 - 03/27/2015 01:32 PM - Jordan Hubbard

- Category set to 1
- Assignee set to Sean Fagan
- Target version set to Unspecified

#2 - 03/27/2015 01:35 PM - Sean Fagan

- Status changed from Unscreened to 15
- Assignee changed from Sean Fagan to Cy Mike

No space left. Clean up some older boot environments.

See how nicely it cleaned up after itself, though?

Let me know if you're not actually low on space in the boot pool.

#3 - 03/27/2015 02:33 PM - Cy Mike

After getting that message and running the update command again, it has been "stuck" here for about 45+ minutes now:

```
Searching for freenas-pkg-tools-9.3-STABLE-d58c0c8-9.3-STABLE-896d06d.tgz
Found package file /var/db/system/UpdateUpdate-cPrzBT/freenas-pkg-tools-9.3-STABLE-d58c0c8-9.3-STABLE-896d06d.
tgz
Installer got packages [{u'base-os': <open file u'/var/db/system/UpdateUpdate-cPrzBT/base-os-9.3-STABLE-896d06
d-e006356-d191868.tgz', mode 'r' at 0x8061f09c0>}, {u'FreeNASUI': <open file u'/var/db/system/UpdateUpdate-cPR
zBT/FreeNASUI-9.3-STABLE-896d06d-e006356-d191868.tgz', mode 'r' at 0x806ca4b70>}, {u'freenas-pkg-tools': <open
file u'/var/db/system/UpdateUpdate-cPrzBT/freenas-pkg-tools-9.3-STABLE-d58c0c8-9.3-STABLE-896d06d.tgz', mode
'r' at 0x806ca4f60>}]
```

```
Installing package {u'base-os': <open file u'/var/db/system/UpdateUpdate-cPRzBT/base-os-9.3-STABLE-896d06d-e006356-d191868.tgz', mode 'r' at 0x8061f09c0>}
base-os-9.3-STABLE-896d06d-e006356-d191868
upgrade_aware = True
```

```
load: 0.28 cmd: python2.7 10274 [tx->tx_quiesce_done_cv] 4294.44r 21.13u 7.06s 0% 90164k
load: 0.26 cmd: python2.7 10274 [tx->tx_quiesce_done_cv] 4298.94r 21.13u 7.06s 0% 90164k
```

When I log in to another ssh session to the box I grabbed the following:

```
[root@freenasmini-raptor] ~# cat /etc/version
FreeNAS-9.3-STABLE-201503071634
[root@freenasmini-raptor] ~# ps -auxwww|grep update
root      10274    0.0  0.5 179424  90232  0  D+   1:14PM      0:28.22 /usr/local/bin/python /usr/local/bin/freenas-update update (python2.7)
root      13066    0.0  0.0  16276   1936  1  S+   2:31PM      0:00.00 grep update
[root@freenasmini-raptor] ~# beadm list
BE          Active Mountpoint      Space Created
default    -         -                   10.2M 2015-01-18 17:01
FreeNAS-9.3-STABLE-201501162230 -         -                   5.4M 2015-01-18 18:05
FreeNAS-9.3-STABLE-201501241715 -         -                   87.0M 2015-01-24 12:45
FreeNAS-9.3-STABLE-201502142001 -         -                   933.1M 2015-02-15 19:03
FreeNAS-9.3-STABLE-201502271818 -         -                   276.1M 2015-02-27 16:08
FreeNAS-9.3-STABLE-201503071634 NR        /                   3.1G 2015-03-09 11:33
FreeNAS-9.3-STABLE-201503270027 -         /var/tmp/tmp9Pm_I 573.0M 2015-03-27 13:39
[root@freenasmini-raptor] ~#
```

#4 - 03/27/2015 02:37 PM - Sean Fagan

ZFS behaves badly when it's very low on space.

How much free space is on root? My guess is that it's pretty low.

#5 - 03/27/2015 02:41 PM - Cy Mike

```
[root@freenasmini-raptor] ~# df -h
Filesystem                                Size      Used      Avail Capacity  Mounted on
freenas-boot/ROOT/FreeNAS-9.3-STABLE-201503071634  921M    916M    5.1M    99%      /
```

```
[root@freenasmini-raptor] ~# zpool status freenas-boot
pool: freenas-boot
state: ONLINE
scan: scrub repaired 0 in 0h1m with 0 errors on Mon Feb 23 03:46:22 2015
config:
```

NAME	STATE	READ	WRITE	CKSUM
freenas-boot	ONLINE	0	0	0
da0p2	ONLINE	0	0	0

errors: No known data errors

```
[root@freenasmini-raptor] ~# zpool list
NAME          SIZE  ALLOC  FREE  EXPANDSZ  FRAG    CAP  DEDUP  HEALTH  ALTROOT
freenas-boot  3.81G  3.69G  125M      -         -    96%  1.00x  ONLINE  -
tank         5.44T  1.14T  4.30T      -        11%   20%  1.00x  ONLINE  /mnt
```

#6 - 03/27/2015 04:22 PM - Cy Mike

Finally ended second command attempt with:

```
Update got exception during update: [Errno 2] No such file or directory: u'/tmp/tmp9Pm_I/usr/local/lib/python
2.7/site-packages/django/contrib/admindocs/locale/ar/LC_MESSAGES/django.mo.new'
RunCommand(/sbin/umount, ['-f', '/tmp/tmp9Pm_I/boot/grub'])
RunCommand(/sbin/mount, ['/boot/grub'])
RunCommand(/sbin/umount, ['-f', '/tmp/tmp9Pm_I/dev'])
RunCommand(/sbin/umount, ['-f', '/tmp/tmp9Pm_I/var/tmp'])
RunCommand(/usr/local/sbin/beadm, ['unmount', '-f', u'FreeNAS-9.3-STABLE-201503270027'])
Unmounted successfully
RunCommand(/usr/local/sbin/beadm, ['destroy', '-F', u'FreeNAS-9.3-STABLE-201503270027'])
GRUB configuration updated successfully
Destroyed successfully
Traceback (most recent call last):
  File "/usr/local/bin/freenas-update", line 168, in <module>
    sys.exit(main())
  File "/usr/local/bin/freenas-update", line 153, in main
    rv = Update.ApplyUpdate(download_dir)
  File "/usr/local/lib/freenasOS/Update.py", line 746, in ApplyUpdate
    raise e
IOError: [Errno 2] No such file or directory: u'/tmp/tmp9Pm_I/usr/local/lib/python2.7/site-packages/django/co
ntrib/admindocs/locale/ar/LC_MESSAGES/django.mo.new'
```

Destroying older BEs and trying again:

```
[root@freenasmini-raptor] ~# beadm list
```

```

BE                Active Mountpoint  Space Created
default          - -                10.2M 2015-01-18 17:01
FreeNAS-9.3-STABLE-201501162230 - -                5.4M 2015-01-18 18:05
FreeNAS-9.3-STABLE-201501241715 - -                87.0M 2015-01-24 12:45
FreeNAS-9.3-STABLE-201502142001 - -                933.1M 2015-02-15 19:03
FreeNAS-9.3-STABLE-201502271818 - -                276.1M 2015-02-27 16:08
FreeNAS-9.3-STABLE-201503071634 NR /                3.1G 2015-03-09 11:33
[root@freenasmini-raptor] ~# beadm destroy FreeNAS-9.3-STABLE-201501162230
Are you sure you want to destroy 'FreeNAS-9.3-STABLE-201501162230'?
This action cannot be undone (y/[n]): y
Boot environment 'FreeNAS-9.3-STABLE-201501162230' was created from existing snapshot
Destroy 'FreeNAS-9.3-STABLE-201503071634@2015-01-24-12:45:18' snapshot? (y/[n]): y
GRUB configuration updated successfully
Destroyed successfully
[root@freenasmini-raptor] ~# beadm destroy FreeNAS-9.3-STABLE-201501241715
Are you sure you want to destroy 'FreeNAS-9.3-STABLE-201501241715'?
This action cannot be undone (y/[n]): y
Boot environment 'FreeNAS-9.3-STABLE-201501241715' was created from existing snapshot
Destroy 'FreeNAS-9.3-STABLE-201503071634@2015-02-15-19:03:38' snapshot? (y/[n]): y
GRUB configuration updated successfully
Destroyed successfully
[root@freenasmini-raptor] ~# beadm destroy FreeNAS-9.3-STABLE-201502142001
Are you sure you want to destroy 'FreeNAS-9.3-STABLE-201502142001'?
This action cannot be undone (y/[n]): y
Boot environment 'FreeNAS-9.3-STABLE-201502142001' was created from existing snapshot
Destroy 'FreeNAS-9.3-STABLE-201503071634@2015-02-27-16:08:36' snapshot? (y/[n]): y
GRUB configuration updated successfully
Destroyed successfully
[root@freenasmini-raptor] ~# beadm destroy FreeNAS-9.3-STABLE-201502271818
Are you sure you want to destroy 'FreeNAS-9.3-STABLE-201502271818'?
This action cannot be undone (y/[n]): y
Boot environment 'FreeNAS-9.3-STABLE-201502271818' was created from existing snapshot
Destroy 'FreeNAS-9.3-STABLE-201503071634@2015-03-09-11:33:49' snapshot? (y/[n]): y
GRUB configuration updated successfully
Destroyed successfully
[root@freenasmini-raptor] ~# zpool list freenas-boot
NAME                SIZE  ALLOC  FREE  EXPANDSZ  FRAG  CAP  DEDUP  HEALTH  ALTROOT
freenas-boot        3.81G 1.85G 1.96G      -      -   48%  1.00x  ONLINE  -
[root@freenasmini-raptor] ~# df -h
Filesystem                Size      Used      Avail Capacity  Mounted on
freenas-boot/ROOT/FreeNAS-9.3-STABLE-201503071634  2.8G    916M    1.9G    33%    /
...

[root@freenasmini-raptor] ~# freenas-update update
TryGetNetworkFile(http://update.freenas.org/FreeNAS/FreeNAS-9.3-STABLE/LATEST)
TryGetNetworkFile(http://update.freenas.org/FreeNAS/FreeNAS-9.3-STABLE/LATEST): Read 5092 bytes total
TryGetNetworkFile(https://web.ixsystems.com/updates/ix_crl.pem)
TryGetNetworkFile(https://web.ixsystems.com/updates/ix_crl.pem): Read 1028 bytes total
Verify command = ['/usr/local/libexec/verify_signature', '-K', '/usr/local/share/certs/freenas-update.pem', '-C', '/usr/local/share/certs/ix-CA.pem', '-S', u'dw/KAbu9yqmMvfNxl7TyXl/d/0i5S02u+6zhbwzDilsVEeLGuYLE5aLKUzw8J+Nbsx6MkoZ8Vm0ttVOV7QfM2ClV3g05cK95HFpI1o4/fJd01j2NOVvIMvohPjTxEvwZagw6dMwpMO5dUwQWBunu18jjwgjZPYu4cC3Ej7BJ2iH y6WXccabU3rJdJ0qJ2RZVW3dmWj3oSKiDx2Fz2QwmEW/gkRxy7c2vOM/emmrZfRrhCBGoRMQij9n7kN/Optmp/6EJXvZssP3+7KksMXjoj5FI UzyZ7GNth4cBw4oG6UpMVfkdsgl/2IJPYdKb0SH5oon6wd+zhcJ9EOKvle3Q==', '-R', '/tmp/tmppttkHdH.pem']
Signature check succeeded
Removing invalid or incomplete cached update
DownloadUpdate: Will upgrade package base-os
DownloadUpdate: Will upgrade package FreeNASUI
DownloadUpdate: Will upgrade package freenas-pkg-tools
Searching for base-os-9.3-STABLE-896d06d-e006356-d191868.tgz
-snip-
+ /usr/local/bin/python /usr/local/www/freenasUI/manage.py migrate --all --merge --delete-ghost-migrations
yes: stdout: Broken pipe
+ rm -f /data/update.failed
Installing package {u'freenas-pkg-tools': <open file u'/var/db/system/UpdateUpdate-YXnvVw/freenas-pkg-tools-9.3-STABLE-d58c0c8-9.3-STABLE-896d06d.tgz', mode 'r' at 0x806ca4f60>}
freenas-pkg-tools-9.3-STABLE-896d06d
upgrade_aware = False
Updated package freenas-pkg-tools from 9.3-STABLE-d58c0c8 to 9.3-STABLE-896d06d in database
RunCommand(/sbin/umount, ['-f', '/tmp/tmp9ngYFR/boot/grub'])
RunCommand(/sbin/mount, ['/boot/grub'])
RunCommand(/sbin/umount, ['-f', '/tmp/tmp9ngYFR/dev'])
RunCommand(/sbin/umount, ['-f', '/tmp/tmp9ngYFR/var/tmp'])
RunCommand(/usr/local/sbin/beadm, ['unmount', '-f', u'FreeNAS-9.3-STABLE-201503270027'])
Unmounted successfully

```

```
RunCommand(/usr/local/sbin/beadm, ['activate', u'FreeNAS-9.3-STABLE-201503270027'])
GRUB configuration updated successfully
Activated successfully
System should be rebooted now
```

I imagine the broken pipe message can be ignored considering this says the update and activation of the new BE was successful.

#7 - 03/27/2015 04:29 PM - Sean Fagan

- Status changed from 15 to Investigation

Yeah, the broken pipe complaint is because the 'yes | whatever' has the python script exit, meaning yes is writing to a broken pipe. Correct behaviour there.

Keeping to investigate changes I can make to have the no-space issue handled better.

#8 - 03/30/2015 10:18 AM - Cy Mike

- Assignee changed from Cy Mike to Sean Fagan

#9 - 03/30/2015 10:45 AM - Jordan Hubbard

- Subject changed from traceback on update command to freenas update process should do a better job of reporting the out-of-space condition

Changing Subject to more accurately match the objective of this ticket.

#10 - 10/17/2015 09:43 AM - Cy Mike

Any chance of this making it into the next FN9 SU or should it be punted to be a future FN10 SU ?

#11 - 05/09/2016 10:30 PM - Jordan Hubbard

- Is duplicate of Bug #11029: Actually prune old boot environments when space is running low and need to create new one added

#12 - 05/09/2016 10:31 PM - Jordan Hubbard

- Status changed from Investigation to Closed: Duplicate

#13 - 07/19/2017 09:03 AM - Kris Moore

- Target version changed from Unspecified to N/A