

FreeNAS - Bug #15918

Memory Leak

06/13/2016 06:54 AM - Bartosz Ciazynski

Status: Closed: User Config Issue	
Priority: No priority	
Assignee: Jordan Hubbard	
Category: Middleware	
Target version: N/A	
Seen in: N/A	Needs Merging: Yes
Severity: New	Needs Automation: No
Reason for Closing:	Support Suite Ticket: n/a
Reason for Blocked:	Hardware Configuration: i5-4590, 16GB mem, 64GB Boot SSD, 4x2TB RaidZFS2,
Needs QA: Yes	ChangeLog Required: No
Needs Doc: Yes	
Description	
Jun 13 15:18:42 freenas swap_pager_getswapspace(16): failed	
Error occurred when I performed library update of the Plex plug-in.	

History

#1 - 06/13/2016 06:54 AM - Bartosz Ciazynski

- File debug-freenas-20160613155329.txz added

#2 - 06/13/2016 08:50 AM - Joshua Ruehlig

- Assignee changed from Joshua Ruehlig to Jordan Hubbard

Forwarding along. Not sure what this has to do with plugins?

#3 - 06/13/2016 09:16 AM - Bartosz Ciazynski

You are probably right..

regards

#4 - 06/13/2016 09:30 AM - Jordan Hubbard

- Status changed from Unscreened to 15

Nothing to do with plugins, I think. This guy probably just doesn't have enough swap (or main memory) in his configuration.

Please paste in the output of:

```
sysctl hw.physmem  
swapinfo -k
```

#5 - 06/13/2016 11:32 AM - Bartosz Ciazynski

Hello.
Command output.

```
[root@freenas ~]# sysctl hw.physmem
hw.physmem: 17081950208
[root@freenas ~]# swapinfo -k
Device      1K-blocks  Used  Avail Capacity
/dev/ada1p1.eli  2097152  62864  2034288   3%
/dev/ada2p1.eli  2097152  64804  2032348   3%
/dev/ada3p1.eli  2097152  64232  2032920   3%
/dev/ada4p1.eli  2097152  63592  2033560   3%
Total        8388608  255492  8133116   3%
[root@freenas ~]#
```

regards,

#6 - 06/13/2016 01:04 PM - Jordan Hubbard

- Status changed from 15 to Closed: User Config Issue

Yeah, so, this machine is 2GB of memory which is below the FreeNAS recommended minimum of 4GB. Even the swap space is just 4GB (swap devices are mirrored, so only 1/2 the storage you see is usable) so basically, this is just a really minimal configuration even for pure storage purposes, adding plugins goes beyond the tolerable footprint and things start getting shot for lack of space (which is what that `swap_pager_getswapspace()` error is - it's basically trying to say "I'm out of memory and I tried to get some swap, but that's also exhausted - I give up!").

#7 - 06/13/2016 10:45 PM - Bartosz Ciazynski

You talking about total memory or the memory that is left free ? (which is below 2GB), (Total is 16GB phys mem in this computer). How to extend hard drive swap space for the freenas ?

#8 - 06/13/2016 10:47 PM - Bartosz Ciazynski

- Hardware Configuration updated

configuration update

#9 - 06/15/2016 10:13 PM - Bartosz Ciazynski

How can I and to which level should I enlarge (grow) the swap space ?

#10 - 06/15/2016 11:42 PM - Jordan Hubbard

Swap space is generally configured at 1-2x physmem. Still, if you have 16GB of memory in this box, it's hard to say why you even need it. I can't reproduce that error when updating plex and we've had no duplicate reports, so there may be something else (use `top / ktop` to investigate memory usage) going haywire on your box. Impossible to say what.

#11 - 06/16/2016 01:19 AM - Bartosz Ciazynski

Well I'am running one virtual machines under Virtualbox plug-in. These machine also takes some ram. In this case declared is 4GB. So 12Gb left for the rest.

last pid: 88623; load averages: 0.62, 0.45, 0.37 up 1+01:38:16 10:19:11
69 processes: 1 running, 68 sleeping
CPU: 1.6% user, 0.0% nice, 6.8% system, 0.4% interrupt, 91.3% idle
Mem: 95M Active, 444M Inact, 6737M Wired, 8288K Cache, 8574M Free
ARC: 1024M Total, 212M MFU, 567M MRU, 5024K Anon, 12M Header, 229M Other
Swap: 8192M Total, 567M Used, 7625M Free, 6% Inuse

PID	USERNAME	THR	PRI	NICE	SIZE	RES	STATE	C	TIME	WCPU	COMMAND
31665	bciazyms	22	20	0	4521M	4284M	select	2	375:45	21.34%	VBoxHeadless
2874	root	12	20	0	255M	35720K	nanslp	2	2:43	0.00%	collectd
5796	972	16	30	0	300M	78156K	uwait	2	0:51	0.00%	Plex Media Ser
6558	972	13	52	15	274M	50024K	piperd	2	0:45	0.00%	python
6577	972	14	48	0	240M	21044K	usem	2	0:32	0.00%	Plex DLNA Serv
2609	root	1	52	0	221M	15900K	select	2	0:30	0.00%	python2.7
2636	root	6	20	0	367M	94656K	select	0	0:26	0.00%	python2.7
4587	bciazyms	11	20	0	128M	1956K	uwait	2	0:14	0.00%	VBoxSVC
1635	root	1	20	0	14468K	1764K	select	3	0:06	0.00%	powerd
6042	root	6	20	0	159M	17580K	select	0	0:05	0.00%	python2.7
4584	bciazyms	1	20	0	68020K	744K	select	2	0:04	0.00%	VBoxXPCOMIPCD
1473	root	1	-52	r0	6304K	2272K	nanslp	2	0:04	0.00%	watchdogd
6627	www	1	20	0	193M	128K	kqread	3	0:03	0.00%	httpd
4560	bciazyms	12	20	0	168M	1840K	select	2	0:03	0.00%	vboxwebsrv
5210	www	1	20	0	193M	16K	lockf	2	0:03	0.00%	httpd
6632	www	1	20	0	193M	16K	lockf	3	0:03	0.00%	httpd
6560	root	1	20	0	77412K	4460K	kqread	1	0:02	0.00%	syslog-ng
1632	root	1	20	0	30260K	18104K	select	3	0:02	0.00%	ntpd
5209	www	1	20	0	193M	16K	lockf	3	0:02	0.00%	httpd
1033	root	1	20	0	71116K	19396K	select	2	0:01	0.00%	devd
4588	root	1	20	0	173M	368K	select	2	0:01	0.00%	httpd
1907	root	1	20	0	229M	3272K	select	2	0:01	0.00%	nmbd
56893	www	1	20	0	50500K	4500K	kqread	1	0:01	0.00%	nginx
5207	www	1	20	0	193M	16K	lockf	1	0:01	0.00%	httpd

#12 - 06/16/2016 01:23 AM - Bartosz Ciazynski

- File log.txt added

Well there are some issues with the ups connectivity but this is not a problem.

#13 - 06/16/2016 01:24 AM - Bartosz Ciazynski

end of the log ---> > pid 60753 (Plex Media Scanner), uid 972, was killed: out of swap space

#14 - 06/16/2016 05:49 AM - Sean Fagan

16G of memory, and 8G of swap (not mirrored, look at the output of swapinfo above).

And yet something is causing it to run out of swap space -- there are 1761 complaints about swap_pager_getswapspace failing starting at Jun 13 15:16:34. And then, about a half hour after that, it reboots. The second one shows 2732 instances of that.

We need to see the output of "swapinfo -k" and "top" when that is happening-- there's not enough logging information otherwise.

#15 - 06/17/2016 12:08 AM - Bartosz Ciazynski

Hello,

So today my machine stalled again. Out of swap space. It's not possible to connect to it via http(s) only ssh.

```
[root@freenas ~]$ swapinfo -k
Device      1K-blocks  Used  Avail Capacity
/dev/ada0p1.eli  2097152 2097144    8 100%
/dev/ada1p1.eli  2097152 2097144    8 100%
/dev/ada2p1.eli  2097152 2097144    8 100%
/dev/ada3p1.eli  2097152 2097144    8 100%
Total          8388608 8388576   32 100%
[root@freenas ~]$
```

there is so little memory that I'm unable to run ktop even :) thinking about turning off the plex jail for the time being to see if the problem will persist.

#16 - 06/20/2016 12:08 AM - Bartosz Ciazynski

- Hardware Configuration updated

Hello,

Well I turned off the Plex Jail before the weekend and till now the server still works no problems whatsoever. ;)

```
[bciazyns@freenas] /mnt/raidZ2/bciazyns# swapinfo -k
Device      1K-blocks  Used  Avail Capacity
/dev/ada0p1.eli  2097152    0 2097152    0%
/dev/ada1p1.eli  2097152    0 2097152    0%
/dev/ada2p1.eli  2097152    0 2097152    0%
/dev/ada3p1.eli  2097152    0 2097152    0%
Total          8388608    0 8388608    0%
[bciazyns@freenas] /mnt/raidZ2/bciazyns#
```

usage of swap is 0%.

Interesting thing is that to begin with the swap error "(swap_pager_getswapspace)" began while I updated my Plex library with some large portion of pictures and video files. After that I selected from Plex to update its library and that's when the problem started. So as showed before scanner died cause it's eaten all of the memory "(Plex Media Scanner), uid 972, was killed: out of swap space".

#17 - 06/20/2016 05:40 AM - Josh Paetzel

What is vfs.zfs.arc_max set to?

Sounds like it's set too high for the hardware+workload

#18 - 06/20/2016 05:44 AM - Bartosz Ciazynski

Hello.

vfs.zfs.arc_max - 1073741824 - generated by the autotune.

greetings.

#19 - 06/20/2016 07:38 AM - Josh Paetzel

Alright, That's 1GB, so ZFS is not causing the issue. Sounds like the machine just needs more RAM (or swap) for what it's trying to do.

#20 - 07/12/2016 07:35 AM - Bartosz Ciazynski

- File *top.png* added

I managed to run the top command. Without memory it managed to execute :P The Plex media Scanner is definitely an issue. :) that causes the machine to stall cause of lack of swap space.

Can I enlarge the swap space to help me overwhelm the issue or that won't be enough ?

#21 - 08/26/2016 01:26 PM - Kris Moore

- Seen in changed from *Unspecified* to *N/A*

#22 - 08/08/2017 06:54 AM - Dru Lavigne

- File deleted (*debug-freenas-20160613155329.txz*)

#23 - 08/08/2017 06:54 AM - Dru Lavigne

- File deleted (*log.txt*)

#24 - 08/08/2017 06:55 AM - Dru Lavigne

- Target version set to *N/A*

- Private changed from *Yes* to *No*

Files

top.png	143 KB	07/12/2016	Bartosz Ciazynski
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