

pfSense - Feature #6045

Updates that do not require a reboot should run reroot

03/30/2016 07:06 AM - Jim Pingle

Status:	Resolved	Start date:	03/30/2016
Priority:	Low	Due date:	
Assignee:	Renato Botelho	% Done:	100%
Category:	Upgrade	Estimated time:	0.00 hour
Target version:	2.4.0		
Description			
<p>Hit a situation last night that seems like it might be rare but worth accounting for in the future: I updated a VM to test a change, but the update was base only and did not require a reboot. The previous copy of a page changed during the update had apparently been cached by the system and the updated page was not being presented to the browser. After restarting php-fpm it worked as expected. That should probably be done for any upgrade that touches the base pkg to be safe, and perhaps also restarting lighttpd would be a good idea.</p> <p>Similarly, if it's not too hard to detect, it would be worthwhile to restart a daemon/service if it or one of its required dependencies is updated.</p>			

Associated revisions

Revision a2c453fd - 12/29/2016 09:20 AM - Jim Pingle

Add reroot support to system_reboot_sync() and to the /etc/rc.initial.reboot menu. Ticket #6045

Revision ce3a92c0 - 01/12/2017 06:44 PM - Jim Pingle

Hide/deactivate the reroot option when ZFS is active. Ticket #6045

History

#1 - 04/17/2016 03:15 AM - Jim Thompson

updates that do not require a reboot should probably call reroot ("reboot -r"), not completely thought through, but this is likely whenever the kernel package hasn't been updated.

#2 - 04/23/2016 03:41 AM - Chris Buechler

- Target version changed from 2.3.1 to 2.3.2

#3 - 07/07/2016 09:20 AM - Renato Botelho

- Subject changed from Updates that do not require a reboot should restart php-fpm/other services to Updates that do not require a reboot should run reroot

- Assignee set to Renato Botelho

- Target version changed from 2.3.2 to 2.4.0

All updates are requiring reboot nowadays while we didn't test reroot accordingly. IMO it's a big change for 2.3 series at this point and should be moved to 2.4

#4 - 12/29/2016 08:53 AM - Renato Botelho

- Status changed from New to Feedback

- % Done changed from 0 to 100

Done. pfSense-upgrade 0.11 on recent 2.4.0 system will do the trick

#5 - 12/29/2016 09:27 AM - Jim Pingle

Doing a reroor style restart works nicely on its own, need to test it during an upgrade to know for sure how it handles that part.

#6 - 12/29/2016 09:44 AM - Renato Botelho

Jim Pingle wrote:

Doing a reroor style restart works nicely on its own, need to test it during an upgrade to know for sure how it handles that part.

If you want to try a reroor style upgrade, before run pfSense-upgrade just run:

```
# pkg unlock -g pfSense-kernel-\*
# pkg upgrade -g pfSense-kernel-\*
```

This will remove kernel from the list of packages to be upgraded by pfSense-upgrade and then it will reroor

#7 - 01/06/2017 12:56 PM - Jim Pingle

- Status changed from Feedback to Assigned

reroor crashes with ZFS. We will have to detect that case and fall back to a traditional reboot (or see if we can get the underlying FreeBSD bug fixed)

```
Fatal trap 12: page fault while in kernel mode
cpuid = 7; apic id = 0e
fault virtual address   = 0x27103b0
fault code              = supervisor read data, page not present
instruction pointer     = 0x20:0xffffffff80c60ab4
stack pointer          = 0x28:0xfffffe0236c36a60
frame pointer          = 0x28:0xfffffe0236c36b10
code segment           = base 0x0, limit 0xfffff, type 0xb
                       = DPL 0, pres 1, long 1, def32 0, gran 1
processor eflags       = interrupt enabled, resume, IOPL = 0
current process        = 5 (trim zroot)
```

```
db:0:kdb.enter.default> run lockinfo
db:1:lockinfo> show locks
No such command
db:1:locks> show alllocks
No such command
db:1:alllocks> show lockedvnods
Locked vnods
db:0:kdb.enter.default> show pcpu
cpuid          = 7
dynamic pcpu  = 0xfffffe02a9caef00
curthread     = 0xfffff80009e6ba00: pid 5 "trim zroot"
curpcb        = 0xfffffe0236c36cc0
fpcurthread   = none
idlethread    = 0xfffff80006244a00: tid 100010 "idle: cpu7"
curpmap       = 0xffffffff829e5600
tssp          = 0xffffffff82a1e0e8
commontssp    = 0xffffffff82a1e0e8
rsp0          = 0xfffffe0236c36cc0
```

```
gs32p      = 0xffffffff82a24940
ldt        = 0xffffffff82a24980
tss        = 0xffffffff82a24970
db:0:kdb.enter.default> bt
Tracing pid 5 tid 100657 td 0xfffff80009e6ba00
_sx_xlock_hard() at _sx_xlock_hard+0x114/frame 0xfffffe0236c36b10
spa_config_enter() at spa_config_enter+0x63/frame 0xfffffe0236c36b70
trim_thread() at trim_thread+0xdc/frame 0xfffffe0236c36bb0
fork_exit() at fork_exit+0x85/frame 0xfffffe0236c36bf0
fork_trampoline() at fork_trampoline+0xe/frame 0xfffffe0236c36bf0
--- trap 0, rip = 0, rsp = 0, rbp = 0 ---
```

#8 - 01/06/2017 02:28 PM - Renato Botelho

Looks like reroot doesn't work with ZFS without changing vfs.root.mountfrom

https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=210721

#9 - 01/12/2017 08:16 AM - Renato Botelho

- Status changed from Assigned to Feedback

pfSense-upgrade 0.12 will not reroot on ZFS systems

#10 - 01/12/2017 06:55 PM - Jim Pingle

- Status changed from Feedback to Resolved

Seems OK for now.