

pfSense - Bug #12747

Restarting the logging daemon during rotation also restarts ``sshguard``, leading to frequent log messages

02/01/2022 08:47 AM - Steve Wheeler

<b>Status:</b>	Resolved	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Marcos M	<b>% Done:</b>	100%
<b>Category:</b>	Logging	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.8.0	<b>Affected Version:</b>	2.6.0
<b>Plus Target Version:</b>	24.11	<b>Affected</b>	All
<b>Release Notes:</b>	Default	<b>Architecture:</b>	

**Description**

sshguard has to restart when he logs are rotated in 2.6 in order to monitor the current file. When it does so it logs the service restart. In an even moderately busy firewall this can produce a lot of log entries to the point it starts to hide other more important logs. It appears to restart whenever any log is rotated, is that actually required?

For example on a test system where an IPSec tunnel is configured but never connects the ipsec log rotates frequently resulting in a system log:

```
Jan 31 00:25:00      sshguard    29496      Exiting on signal.
Jan 31 00:25:00      sshguard    9940      Now monitoring attacks.
Jan 31 03:17:00      sshguard    9940      Exiting on signal.
Jan 31 03:17:00      sshguard    60321     Now monitoring attacks.
Jan 31 06:09:00      sshguard    60321     Exiting on signal.
Jan 31 06:09:00      sshguard    83661     Now monitoring attacks.
Jan 31 09:01:00      sshguard    83661     Exiting on signal.
Jan 31 09:01:00      sshguard    93166     Now monitoring attacks.
Jan 31 11:53:00      sshguard    93166     Exiting on signal.
Jan 31 11:53:00      sshguard    94019     Now monitoring attacks.
```

It's possible to mitigate this to some extent by increasing the log file size reducing the rotation frequency.

Associated revisions

Revision f32dca24 - 08/21/2024 08:18 PM - Marcos M

Stop sshguard spam in system logs. Fix #12747

Instead of restarting sshguard with each log rotation, keep it running separately while monitoring the auth log file. This allows sshguard start/stop events to still be included in the system log without spamming it. When the log file is rotated by newsyslog, sshguard will handle it and hence does not need to be signaled.

The use of daemon(8) allows the service to be restarted automatically (every 60s) unless stopped via the service control mechanism used by the GUI. It also prevents the start of multiple sshguard instances.

History

#1 - 02/21/2022 10:15 AM - Viktor Gurov

it seems to be related to [#12833](#)

#2 - 02/23/2022 06:20 PM - Todd Marimon

I am seeing this as well. In my case it seems to be every 2 minutes-- quite a lot of log noise! On pfSense 2.6.0.

```
Feb 24 00:13:00      sshguard    62471     Now monitoring attacks.
Feb 24 00:13:00      sshguard    28882     Exiting on signal.
Feb 24 00:11:00      sshguard    28882     Now monitoring attacks.
Feb 24 00:11:00      sshguard    90479     Exiting on signal.
```

Feb 24 00:09:00	sshguard	90479	Now monitoring attacks.
Feb 24 00:09:00	sshguard	60259	Exiting on signal.
Feb 24 00:07:00	sshguard	60259	Now monitoring attacks.
Feb 24 00:07:00	sshguard	98243	Exiting on signal.
Feb 24 00:05:00	sshguard	98243	Now monitoring attacks.
Feb 24 00:05:00	sshguard	994	Exiting on signal.

### #3 - 03/25/2022 11:45 PM - Car F

Having the same issue since 2.6.0.

### #4 - 04/21/2022 01:40 AM - Michael TRVL ALBT

Having the same issue since 2.6.0 too.

### #5 - 04/22/2022 06:38 AM - Marle Cua-chin

- File clipboard-202204221938-uajpw.png added

I'm also experiencing the same issue on 2.6.0

Apr 22 19:28:00	sshguard	3157	Now monitoring attacks.
Apr 22 19:28:00	sshguard	84440	Exiting on signal.
Apr 22 19:22:00	sshguard	84440	Now monitoring attacks.
Apr 22 19:22:00	sshguard	94589	Exiting on signal.
Apr 22 19:17:00	sshguard	94589	Now monitoring attacks.
Apr 22 19:17:00	sshguard	46934	Exiting on signal.
Apr 22 19:16:00	sshguard	46934	Now monitoring attacks.
Apr 22 19:16:00	sshguard	7023	Exiting on signal.
Apr 22 19:12:00	sshguard	7023	Now monitoring attacks.

### #6 - 05/03/2022 03:08 AM - Antonio Pesce

I'm having the same issue on 2.6.0 on 6 pfSense instance.

### #7 - 06/30/2022 05:21 AM - Franck Ck

- File clipboard-202206300621-7gjov.png added

same here on 22.05

Jun 30 06:09:00	sshguard	27380	Now monitoring attacks.
Jun 30 06:09:00	sshguard	65180	Exiting on signal.
Jun 30 05:56:00	sshguard	65180	Now monitoring attacks.
Jun 30 05:56:00	sshguard	42748	Exiting on signal.
Jun 30 05:46:00	sshguard	42748	Now monitoring attacks.
Jun 30 05:46:00	sshguard	68215	Exiting on signal.
Jun 30 05:29:00	sshguard	68215	Now monitoring attacks.
Jun 30 05:29:00	sshguard	8556	Exiting on signal.
Jun 30 05:07:00	sshguard	8556	Now monitoring attacks.
Jun 30 05:07:00	sshguard	92397	Exiting on signal.
Jun 30 04:44:00	sshguard	92397	Now monitoring attacks.
Jun 30 04:44:00	sshguard	35893	Exiting on signal.
Jun 30 04:27:00	sshguard	35893	Now monitoring attacks.
Jun 30 04:27:00	sshguard	65466	Exiting on signal.
Jun 30 04:10:00	sshguard	65466	Now monitoring attacks.
Jun 30 04:10:00	sshguard	31742	Exiting on signal.
Jun 30 03:51:00	sshguard	31742	Now monitoring attacks.
Jun 30 03:51:00	sshguard	74269	Exiting on signal.
Jun 30 03:34:00	sshguard	74269	Now monitoring attacks.
Jun 30 03:34:00	sshguard	23656	Exiting on signal.
Jun 30 03:18:00	sshguard	23656	Now monitoring attacks.

#### #8 - 07/05/2022 07:41 AM - Geovane Gonçalves

I'm having the same issue on 2.6.0 at every 1 minute:

```
Jul 5 09:33:00 sshguard 77002 Exiting on signal.
Jul 5 09:33:00 sshguard 19637 Now monitoring attacks.
Jul 5 09:34:00 sshguard 19637 Exiting on signal.
Jul 5 09:34:00 sshguard 40779 Now monitoring attacks.
Jul 5 09:35:00 sshguard 40779 Exiting on signal.
Jul 5 09:35:00 sshguard 64718 Now monitoring attacks.
Jul 5 09:36:00 sshguard 64718 Exiting on signal.
Jul 5 09:36:00 sshguard 6061 Now monitoring attacks.
Jul 5 09:37:00 sshguard 6061 Exiting on signal.
Jul 5 09:37:00 sshguard 46190 Now monitoring attacks.
```

As a workaround I disabled the log packets matched from the default block rules in the ruleset to reduce the amount of system logs, but that didn't happen before the upgrade. The frequency has dropped and now I'm watching.

After a period of calm, he logged back in every minute. Maybe on restart of syslogd. I changed the file size from 500K to 1024 and I'm tracking again.

Doubling the size of the logs from 512K to 1024K didn't work either. After about a day the logs became polluted again. No solution.

#### #9 - 08/22/2022 12:35 PM - Hayden Hill

I am having the same issue in 22.05.

#### #10 - 12/15/2022 02:21 AM - van trung tran

I am having the same issue in 22.05. Netgate XG1541

#### #11 - 01/22/2023 10:24 AM - Michael Kellogg

I am Still seeing this on 2.7 built on Fri Jan 20 03:01:02 UTC 2023

seems like every 5-10 minutes not a pattern i can figure out

#### #12 - 04/17/2023 02:55 PM - Mitch Claborn

Still an issue in 23.01. Suggestions:

1. Stop logging the stop and start. I can't see how this is useful.

2. Make sshguard smart enough to recognize a new log file without restarting. (e.g. send it a HUP to look for new log files)
3. Allow filtering on the log display to hide entries that we don't want to look at.

### #13 - 04/17/2023 03:03 PM - Jim Pingle

Unfortunately a lot of this is out of our control as we are at the mercy of what sshguard supports. Not saying we won't keep looking for a solution, but that our options here are limited.

The way it is currently used, sshguard will restart when syslogd restarts, which will happen any time a log is rotated. If your logs are rotating that fast, you should figure out what is causing such a high volume of logs and take some sort of corrective actions:

- Reduce the logging of whatever is causing the high volume of logs
- Increase the log rotation size of the affected log (or all logs)
- Disable local logging and rely solely on remote logging

That high volume of logging would also be causing a high volume of disk writes on your device, which is likely undesirable as well.

### #14 - 09/23/2023 12:07 PM - Jonathan Stafford

- File clipboard-202309230719-waes.png added

- File clipboard-202309230720-yhwfb.png added

I'm having this problem as well, with 23.05.1-RELEASE. For me, the issue seems to be that the filter logs are rolling every 45 minutes to an hour:

#### Shell Output - ls -lt /var/log/\*.log.[0-9]

```
-rw-rw-r-- 1 root wheel 514185 Sep 23 07:15 /var/log/filter.log.0
-rw-rw-r-- 1 root wheel 522679 Sep 23 06:28 /var/log/nginx.log.0
-rw-rw-r-- 1 root wheel 516526 Sep 23 06:07 /var/log/filter.log.1
-rw-rw-r-- 1 root wheel 515792 Sep 23 05:13 /var/log/filter.log.2
-rw-rw-r-- 1 root wheel 521367 Sep 23 04:26 /var/log/filter.log.3
-rw-rw-r-- 1 root wheel 512088 Sep 23 03:44 /var/log/filter.log.4
-rw-rw-r-- 1 root wheel 514215 Sep 23 02:51 /var/log/filter.log.5
-rw-rw-r-- 1 root wheel 514651 Sep 23 02:04 /var/log/filter.log.6
-rw-rw-r-- 1 root wheel 511291 Sep 22 09:50 /var/log/dhcpd.log.0
-rw-rw-r-- 1 root wheel 511281 Sep 20 23:36 /var/log/nginx.log.1
-rw-rw-r-- 1 root wheel 511260 Sep 20 01:51 /var/log/dhcpd.log.1
-rw-rw-r-- 1 root wheel 511129 Sep 18 01:54 /var/log/nginx.log.2
-rw-rw-r-- 1 root wheel 511083 Sep 17 15:37 /var/log/dhcpd.log.2
```

The vast majority of the logs are coming from what I assume are system rules, the 1000000??? entries. These don't match the tracking ids of any rules I have defined.

#### Shell Output - grep -v 'logfile turned over' /var/log/filter.log\* | cut -d, -f4 | sort | uniq -c | sort -nr

```
15189 1000000003
6567 1000000103
240 1000000004
29 1680383015
```

As far as I can tell these rules are matching:

- 1000000003 - Mostly IPv6 mDNS on the LAN interface, although there is some DHCPv6 and ICMPv6.
- 1000000103 - Most of the logs are IPv4 on the WAN interface addressed to my WAN IP. A few of the logs are on the LAN interface, to an assortment of IPs on 443.
- 1000000004 - DHCPv6 from the WAN and ICMPv6 from the LAN

I do not have IPv6 enabled at System/Advanced/Networking/IPv6 Options->Allow IPv6. Additionally, it's a TP Link SG108E connected to the LAN port, which doesn't support IPv6 anyway ... so not really clear where this is even coming from. I don't know enough about the log format to swear this isn't 6in4. I have my own rules on the WAN and LAN to drop IPv6, but these never show any hits.

I have gotten an IPv6 address from my ISP in the past, but with no ability to use IPv6 on the network I turned that off.

I did just add some rules to drop 6in4 traffic in both directions and those haven't immediately shown any matches.

Looking through the various configuration pages, I don't see any way to enable/disable logging hits on system rules, but certainly could have missed it. Gonçalves, where did you see that? Ah it's at Status/System Logs/Settings/General Logging Options->Log firewall default blocks. At least now I don't know about this weird IPv6 traffic :)

Jonathan Stafford wrote in [#note-14](#):

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Maybe it helps:

I believe that we have reached a suitable configuration for our case.

I'll report the actions in case anyone finds this useful in the future:

PfSense 2.6.0 - FW/GW/Proxy wifi network approx 1300 daily users.  
Logs are sent remotely for auditing purposes. Lots of filter logs!

Our final configuration to avoid "sshguard" spam looked like this:

We increased log file size to 100MB;  
To avoid excessive disk consumption, retention has been changed to only two files in "log settings";  
rw----- 1 root wheel 97239550 Jul 14 11:35 filter.log  
rw----- 1 root wheel 102682474 Jul 13 16:16 filter.log.0  
rw----- 1 root wheel 102697059 Jul 13 11:31 filter.log.1

To avoid the risk of unnecessary CPU consumption, log compression was disabled (UFS);  
We disabled the log packets matched from the default block rules in the ruleset to reduce the amount of system logs;  
We reviewed the other firewall rules and kept the logs strictly necessary;  
Also to avoid space consumption, squid log retention has been reduced from 30 to 3 files.  
Thanks,

Geovane  
original post:  
<https://forum.netgate.com/topic/169923/tons-sshguard-log-entries-and-its-not-enabled/63?lang=pt-BR>

#16 - 03/15/2024 05:08 PM - Daryl Morse

The original bug was reported against 2.6.0, but the problem has carried over to 2.7.x.

These messages are only one example of how the logs are being literally polluted by useless garbage messages. This is not cosmetic. Garbage messages cause important messages to be lost. The fix is not to reduce the size of the logs. The fix is to eliminate the garbage either by preventing them from being generated in the first place or if that isn't possible, by filtering them after they are created so there is room in the log for important messages.

#17 - 08/05/2024 05:08 PM - luckman212

Damn. I got bit by this today when trying to troubleshoot a remote firewall. Filled to the brim with the logspew (pfSense+ 24.03)

#18 - 08/17/2024 05:24 PM - Marcos M

- Subject changed from System log is filled by sshguard to sshguard spams the system log
- Status changed from New to Ready To Test

Here's a patch for 24.03 for testing:

Apply then reboot.

#19 - 08/17/2024 06:43 PM - Christopher Cope

Marcos M wrote in [#note-18](#):

```
Here's a patch for 24.03 for testing: {{collapse
[...]
```

Apply then reboot.

Tested on 24.03 and it seems to be working as intended. Even when syslogd is restarted, sshguard doesn't fill the logs. sshguard logs are also nicely placed into /var/log/sshguard.log. The logs are much more readable.

#20 - 08/21/2024 08:24 PM - Marcos M

- Status changed from Ready To Test to Feedback
- Assignee set to Marcos M
- Target version changed from CE-Next to 2.8.0
- Plus Target Version changed from Plus-Next to 24.08

With [f32dca244955da9007e1bc75801d486b5f70352e](#) sshguard now monitors auth.log directly instead of relying on syslogd to send it messages.

Edit: I've pushed an additional change to remove an unnecessary service restart: commit:a82bb079330fb681b9d7c6eb1e52ae2484f84c04

#21 - 08/21/2024 08:24 PM - Marcos M

- % Done changed from 0 to 100

#22 - 08/22/2024 03:01 PM - Danilo Zrenjanin

- Status changed from Feedback to Resolved

I was able to reproduce the issue on 24.03.

After applying the patch, I got the same results.

Aug 22 15:11:00	sshguard	15993	Now monitoring attacks.
Aug 22 15:11:00	sshguard	55230	Exiting on signal.

```

Aug 22 15:08:00    sshguard    55230    Now monitoring attacks.
Aug 22 15:08:00    sshguard    97999    Exiting on signal.
Aug 22 15:05:00    sshguard    97999    Now monitoring attacks.
Aug 22 15:05:00    sshguard    33690    Exiting on signal.
Aug 22 15:02:00    sshguard    33690    Now monitoring attacks.
Aug 22 15:02:00    sshguard    30903    Exiting on signal.
Aug 22 14:59:05    php-fpm     536      System Patches: Patch fetched successfully (ID: 66c752367f64b, DESCR: ssh
_logs)
Aug 22 14:59:05    check_reload_status    589      Syncing firewall
Aug 22 14:59:05    php-fpm     536      /system_patches.php: Configuration Change: admin@192.168.33.1 (Local Data
base): Fetched patch ssh_logs
Aug 22 14:59:02    check_reload_status    589      Syncing firewall
Aug 22 14:59:02    php-fpm     92470    /system_patches_edit.php: Configuration Change: admin@192.168.33.1 (Loc
al Database): System: Patches: edited a patch.
Aug 22 14:58:25    pkg-static  54621    pfSense-pkg-System_Patches-2.2.11_15 installed
Aug 22 14:58:25    php         65227    //etc/rc.packages: Successfully installed package: System Patches.
Aug 22 14:58:25    php         65227    //etc/rc.packages: Configuration Change: (system): Installed System Patches
package.
Aug 22 14:58:25    check_reload_status    589      Syncing firewall
Aug 22 14:58:25    php         65227    //etc/rc.packages: Configuration Change: (system): System Patches package a
dded an early shellcmd: apply patches
Aug 22 14:58:25    check_reload_status    589      Syncing firewall
Aug 22 14:58:25    php         65227    //etc/rc.packages: Configuration Change: (system): Intermediate config writ
e during package install for System Patches.
Aug 22 14:58:25    php         65227    //etc/rc.packages: Beginning package installation for System Patches .
Aug 22 14:58:21    check_reload_status    589      Syncing firewall
Aug 22 14:58:21    php-fpm     69927    /pkg_mgr_install.php: Configuration Change: admin@192.168.33.1 (Local D
atabase): Creating restore point before package installation.
Aug 22 14:58:00    sshguard    30903    Now monitoring attacks.
Aug 22 14:58:00    sshguard    87083    Exiting on signal.
Aug 22 14:57:10    php-fpm     69927    /pkg_mgr_installed.php: The command '/usr/local/sbin/pfSense-repo-setup
' returned exit code '14', the output was ''
Aug 22 14:52:00    sshguard    87083    Now monitoring attacks.
Aug 22 14:52:00    sshguard    54118    Exiting on signal.
Aug 22 14:46:00    sshguard    54118    Now monitoring attacks.
Aug 22 14:46:00    sshguard    32464    Exiting on signal.
Aug 22 14:40:00    sshguard    32464    Now monitoring attacks.
Aug 22 14:40:00    sshguard    17167    Exiting on signal.
Aug 22 14:34:00    sshguard    17167    Now monitoring attacks.
Aug 22 14:34:00    sshguard    95472    Exiting on signal.
Aug 22 14:28:00    sshguard    95472    Now monitoring attacks.
Aug 22 14:28:00    sshguard    62604    Exiting on signal.
Aug 22 14:22:00    sshguard    62604    Now monitoring attacks.
Aug 22 14:22:00    sshguard    41788    Exiting on signal.
Aug 22 14:16:00    sshguard    41788    Now monitoring attacks.
Aug 22 14:16:00    sshguard    11625    Exiting on signal.
Aug 22 14:10:00    sshguard    11625    Now monitoring attacks.
Aug 22 14:10:00    sshguard    83934    Exiting on signal.
Aug 22 14:04:00    sshguard    83934    Now monitoring attacks.
Aug 22 14:04:00    sshguard    52778    Exiting on signal.
Aug 22 13:58:00    sshguard    52778    Now monitoring attacks.
Aug 22 13:58:00    sshguard    45828    Exiting on signal.
Aug 22 13:52:00    sshguard    45828    Now monitoring attacks.
Aug 22 13:52:00    sshguard    9833     Exiting on signal.
Aug 22 13:46:00    sshguard    9833     Now monitoring attacks.
Aug 22 13:46:00    sshguard    82710    Exiting on signal.
Aug 22 13:40:00    sshguard    82710    Now monitoring attacks.
Aug 22 13:40:00    sshguard    56637    Exiting on signal.
Aug 22 13:34:00    sshguard    56637    Now monitoring attacks.
Aug 22 13:34:00    sshguard    29766    Exiting on signal.
Aug 22 13:28:00    sshguard    29766    Now monitoring attacks.
Aug 22 13:28:00    sshguard    96576    Exiting on signal.
Aug 22 13:22:00    sshguard    96576    Now monitoring attacks.
Aug 22 13:22:00    sshguard    72471    Exiting on signal.
Aug 22 13:16:00    sshguard    72471    Now monitoring attacks.
Aug 22 13:16:00    sshguard    40315    Exiting on signal.
Aug 22 13:10:00    sshguard    40315    Now monitoring attacks.
Aug 22 13:10:00    sshguard    33853    Exiting on signal.
Aug 22 13:04:00    sshguard    33853    Now monitoring attacks.
Aug 22 13:04:00    sshguard    3459     Exiting on signal.
Aug 22 12:58:00    sshguard    3459     Now monitoring attacks.
Aug 22 12:58:00    sshguard    78835    Exiting on signal.

```

- Status changed from Resolved to Feedback

#24 - 08/23/2024 03:54 AM - Marcos M

Make sure to reboot after applying the patches.

#25 - 08/24/2024 06:07 AM - Danilo Zrenjanin

- Status changed from Feedback to Resolved

Upon testing against the latest development build, I could not replicate the reported issue. Therefore, I am marking this ticket as resolved.

#26 - 10/04/2024 05:51 PM - Jim Pingle

- Subject changed from sshguard spams the system log to Restarting the logging daemon during rotation also restarts ``sshguard``, leading to frequent log messages

#27 - 10/11/2024 02:31 PM - Jim Pingle

- Plus Target Version changed from 24.08 to 24.11

Files

clipboard-202204221938-uaipw.png	9.84 KB	04/22/2022	Marle Cua-chin
clipboard-202206300621-7giov.png	135 KB	06/30/2022	Franck Ck
clipboard-202309230719-waesz.png	85.5 KB	09/23/2023	Jonathan Stafford
clipboard-202309230720-yhwfb.png	21.2 KB	09/23/2023	Jonathan Stafford