

strongSwan - Feature #783

kernel-pfkey: recv socket buffer size too small

09.12.2014 10:58 - Emeric Poupon

Status:	Closed	Start date:	09.12.2014
Priority:	Normal	Due date:	
Assignee:	Tobias Brunner	Estimated time:	0.00 hour
Category:	libhydra		
Target version:	5.3.0		
Resolution:	Fixed		
Description			
Hello,			
Strongswan 5.2.1, FreeBSD 9.3. Connection parameters:			
conn test leftsubnet=9.0.0.0/24 rightsubnet=172.16.2.248/29,172.16.2.240/29,172.16.2.232/29,172.16.2.224/29,172.16.2.216/29,172.16.2.208/29,172.16.2.200/29,172.16.2.192/29,172.16.2.184/29,172.16.2.176/29 auto=route			
I always get the following errors when charon is initializing:			
...			
Dec 9 08:51:53 13[CFG] configured proposals: ESP:AES_CBC_256/HMAC_SHA2_256_128/NO_EXT_SEQ, ESP:BLOWFISH_CBC_256/HMAC_SHA2_256_128/NO_EXT_SEQ			
Dec 9 08:51:53 13[KNL] adding policy 9.0.0.0/24 === 172.16.2.248/29 out			
Dec 9 08:51:53 13[KNL] adding policy 172.16.2.248/29 === 9.0.0.0/24 in			
Dec 9 08:51:53 13[KNL] adding policy 9.0.0.0/24 === 172.16.2.240/29 out			
Dec 9 08:51:53 13[KNL] adding policy 172.16.2.240/29 === 9.0.0.0/24 in			
Dec 9 08:51:53 13[KNL] adding policy 9.0.0.0/24 === 172.16.2.232/29 out			
Dec 9 08:51:53 13[KNL] adding policy 172.16.2.232/29 === 9.0.0.0/24 in			
Dec 9 08:51:53 13[KNL] adding policy 9.0.0.0/24 === 172.16.2.224/29 out			
Dec 9 08:51:53 13[KNL] adding policy 172.16.2.224/29 === 9.0.0.0/24 in			
Dec 9 08:51:53 13[KNL] adding policy 9.0.0.0/24 === 172.16.2.216/29 out			
Dec 9 08:51:53 13[KNL] error sending to PF_KEY socket: No buffer space available			
Dec 9 08:51:53 13[KNL] unable to add policy 9.0.0.0/24 === 172.16.2.216/29 out			
Dec 9 08:51:53 13[KNL] adding policy 172.16.2.216/29 === 9.0.0.0/24 in			
Dec 9 08:51:53 13[KNL] error sending to PF_KEY socket: No buffer space available			
Dec 9 08:51:53 13[KNL] unable to add policy 172.16.2.216/29 === 9.0.0.0/24 in			
Dec 9 08:51:53 13[CFG] installing trap failed			
Dec 9 08:51:53 13[KNL] deleting policy 9.0.0.0/24 === 172.16.2.248/29 out			
Dec 9 08:51:53 13[KNL] error sending to PF_KEY socket: No buffer space available			
Dec 9 08:51:53 13[KNL] unable to delete policy 9.0.0.0/24 === 172.16.2.248/29 out			
Dec 9 08:51:53 13[KNL] deleting policy 172.16.2.248/29 === 9.0.0.0/24 in			
Dec 9 08:51:53 13[KNL] error sending to PF_KEY socket: No buffer space available			
Dec 9 08:51:53 13[KNL] unable to delete policy 172.16.2.248/29 === 9.0.0.0/24 in			
...			
Actually, the default raw socket size is quite small on FreeBSD (8k). Even if a lock prevents the "command" socket from being full, the event socket may be full before we get a chance to read messages on it.			
An obvious fix is to change the default size of raw sockets of the system, but it is quite intrusive for other programs. It would be great to have the possibility to change the socket buffer size from the configuration file.			
Note that only the receive buffer size of the event socket has to be modified.			
Regards,			

Associated revisions

Revision 96e61305 - 06.03.2015 16:45 - Tobias Brunner

kernel-pfkey: Add option to set receive buffer size of event socket

If many requests are sent to the kernel the events generated by these requests may fill the receive buffer before the daemon is able to read these messages.

Fixes #783.

History

#1 - 06.03.2015 16:49 - Tobias Brunner

- *Tracker changed from Issue to Feature*
- *Category set to libhydra*
- *Status changed from New to Closed*
- *Assignee set to Tobias Brunner*
- *Target version set to 5.3.0*
- *Resolution set to Fixed*

Applied to master with the referenced commit.

Files

patch-kernel-pfkey-socket-events-rcvbuf	941 Bytes	09.12.2014	Emeric Poupon
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