

## strongSwan - Issue #1166

### Strongswan [strongswan-5.3.3.tar.bz2] is not compiling in opensuse linux12 2.6.32.12-0.7-default .

20.10.2015 07:05 - Bharath Meduri

|  |                |                                       |
|--|----------------|---------------------------------------|
| <b>Status:</b>   | Closed         |                                       |
| <b>Priority:</b>   | Normal         |                                       |
| <b>Assignee:</b>   | Tobias Brunner |                                       |
| <b>Category:</b>   | build          |                                       |
| <b>Affected version:</b>   | 5.3.3          | <b>Resolution:</b> No change required |
| <b>Description</b>   |                |                                       |
| <p>while executing "MAKE" , following errors are thrown: [strongswan-5.3.3.tar.bz2]</p> <pre>kernel_netlink_ipsec.c:145: error: 'XFRMA_REPLAY_ESN_VAL' undeclared here (not in a function) kernel_netlink_ipsec.c: In function 'add_mark': kernel_netlink_ipsec.c:1185: error: 'XFRMA_MARK' undeclared (first use in this function) kernel_netlink_ipsec.c:1185: error: (Each undeclared identifier is reported only once kernel_netlink_ipsec.c:1185: error: for each function it appears in.) kernel_netlink_ipsec.c:1185: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1190: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1191: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c: In function 'add_sa': kernel_netlink_ipsec.c:1394: error: 'XFRMA_ALG_AUTH_TRUNC' undeclared (first use in this function) kernel_netlink_ipsec.c:1395: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1400: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1401: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1402: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1402: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1403: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1403: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1404: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1482: error: 'XFRMA_TFCPAD' undeclared (first use in this function) kernel_netlink_ipsec.c:1502: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1508: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1509: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c:1515: error: 'XFRM_STATE_ESN' undeclared (first use in this function) kernel_netlink_ipsec.c: At top level: kernel_netlink_ipsec.c:1557: warning: 'struct xfrm_replay_state_esn' declared inside parameter list kernel_netlink_ipsec.c:1557: warning: its scope is only this definition or declaration, which is probably not what you want kernel_netlink_ipsec.c: In function 'get_replay_state': kernel_netlink_ipsec.c:1640: error: dereferencing pointer to incomplete type kernel_netlink_ipsec.c: In function 'update_sa': kernel_netlink_ipsec.c:1894: warning: passing argument 6 of 'get_replay_state' from incompatible pointer type make<sup>4</sup>: * [kernel_netlink_ipsec.lo] Error 1 make<sup>4</sup>: Leaving directory `/home/strongswan-5.3.3/src/libhydra/plugins/kernel_netlink' make<sup>3</sup>: [all-recursive] Error 1 make<sup>3</sup>: Leaving directory `/home/strongswan-5.3.3/src/libhydra' make<sup>2</sup>: [all-recursive] Error 1 make<sup>2</sup>: Leaving directory `/home/strongswan-5.3.3/src' make<sup>1</sup>: [all-recursive] Error 1 make<sup>1</sup>: Leaving directory `/home/strongswan-5.3.3' make: ** [all] Error 2</pre> |                |                                       |

Configure option is : =====

```
./configure --target=i686-pc-linux-gnu --prefix=/usr --sysconfdir=/etc --disable-gmp --with-charon-udp-port=500  
--with-charon-natt-port=4500 --with-linux-headers=/usr/include
```

I have also gone through BUG#1099 , but the patch also is not working for me. I added patch in /src/include path.

Please help to solve it

#### Related issues:

Related to Bug #1099: compiling error in r5.3.3

Closed

07.09.2015

#### History

##### #1 - 20.10.2015 10:04 - Tobias Brunner

- Related to Bug #1099: compiling error in r5.3.3 added

##### #2 - 20.10.2015 10:12 - Tobias Brunner

- Category set to build

- Status changed from New to Feedback

```
--with-linux-headers=/usr/include
```

The headers from the 2.6.32 kernel (which is now [reaching its EOL](#)) are too old. That's why we ship a bunch of kernel headers to simplify implementation (avoids having to plaster the code with even more #ifdefs). So you definitely should remove the option above.

I also wonder why you are using openSUSE 12.x with a 2.6.32 kernel. [According to Wikipedia](#) the 12.x releases (which apparently all reached their EOL) ship with 3.x kernels.

I have also gone through BUG#1099 , but the patch also is not working for me.

What problem did you encounter after applying the patch to the 5.3.3 code?

##### #3 - 20.10.2015 14:13 - Bharath Meduri

So you definitely should remove the option above.

-----

If i remove the Option : following errors are coming so i used option: --with-linux-headers=/usr/include\*\*

```
In file included from kernel_netlink_ipsec.c:25:  
../../../../src/include/linux/netlink.h:36: error: expected specifier-qualifier-  
list before '__kernel_sa_family_t'  
In file included from kernel_netlink_ipsec.c:26:  
../../../../src/include/linux/rtnetlink.h:357: error: expected specifier-qualifi-  
er-list before '__kernel_sa_family_t'  
kernel_netlink_ipsec.c: In function 'receive_events':  
kernel_netlink_ipsec.c:1036: error: 'struct sockaddr_nl' has no member named 'nl  
_pid'  
kernel_netlink_ipsec.c: In function 'kernel_netlink_ipsec_create':  
kernel_netlink_ipsec.c:2956: error: 'struct sockaddr_nl' has no member named 'nl  
_family'  
kernel_netlink_ipsec.c:2966: error: 'struct sockaddr_nl' has no member named 'nl  
_groups'  
make4: * [kernel_netlink_ipsec.lo] Error 1  
make4: Leaving directory `/home/strongswan-5.3.3/src/libhydra/plugins/kernel_n  
etlink'  
make3: [all-recursive] Error 1  
make3: Leaving directory `/home/strongswan-5.3.3/src/libhydra'  
make2: [all-recursive] Error 1  
make2: Leaving directory `/home/strongswan-5.3.3/src'  
make1: [all-recursive] Error 1  
make1: Leaving directory `/home/strongswan-5.3.3'  
make: ** [all] Error 2
```

What problem did you encounter after applying the patch to the 5.3.3 code?

-----

Is it correct way to add this patch in /src/include and compile again to solve this issue? is it the solution you proposed by removing --with-linux-headers=/usr/include this option and use patch to build?

if so , even after including patch also i am getting errors.

I also wonder why you are using openSUSE 12.x with a 2.6.32 kernel. According to Wikipedia the 12.x releases (which apparently all reached their EOL) ship with 3.x kernels.

=====

This we have some compatibility issues so we didnot upgrade to latest. i can try once upgrading to latest kernal , but which is better? linux-a379 3.0.13-0.27-default is this ok?

#### #4 - 20.10.2015 14:45 - Tobias Brunner

If i remove the Option : following errors are coming

Yes, these are the errors seen in [#1099](#).

Is it correct way to add this patch in /src/include and compile again to solve this issue? is it the solution you proposed by removing --with-linux-headers=/usr/include this option and use patch to build?

Yes, you'd apply the patch to the strongSwan sources (basically adds [source:src/include/linux/socket.h](#)). Then compile without --with-linux-headers (it might be a good idea to run make distclean before running ./configure with the new options).

if so , even after including patch also i am getting errors.

But hopefully not the same errors. So which errors do you get?

This we have some compatibility issues so we didnot upgrade to latest. i can try once upgrading to latest kernal , but which is better? linux-a379 3.0.13-0.27-default is this ok?

Possibly.

#### #5 - 20.10.2015 16:56 - Bharath Meduri

\*But hopefully not the same errors. So which errors do you get? =====  
I also used make distclean\*

```
In file included from kernel_netlink_ipsec.c:25:
../../../../src/include/linux/netlink.h:36: error: expected specifier-qualifier-
list before '__kernel_sa_family_t'
In file included from kernel_netlink_ipsec.c:26:
../../../../src/include/linux/rtnetlink.h:357: error: expected specifier-qualifi
er-list before '__kernel_sa_family_t'
kernel_netlink_ipsec.c: In function 'receive_events':
kernel_netlink_ipsec.c:1036: error: 'struct sockaddr_nl' has no member named 'nl
_pid'
kernel_netlink_ipsec.c: In function 'kernel_netlink_ipsec_create':
kernel_netlink_ipsec.c:2956: error: 'struct sockaddr_nl' has no member named 'nl
_family'
kernel_netlink_ipsec.c:2966: error: 'struct sockaddr_nl' has no member named 'nl
_groups'
make4: * [kernel_netlink_ipsec.lo] Error 1
make4: Leaving directory `/home/strongswan-5.3.3/src/libhydra/plugins/kernel_n
etlink'
make3: [all-recursive] Error 1
make3: Leaving directory `/home/strongswan-5.3.3/src/libhydra'
make2: [all-recursive] Error 1
make2: Leaving directory `/home/strongswan-5.3.3/src'
make1: [all-recursive] Error 1
make1: Leaving directory `/home/strongswan-5.3.3'
make: ** [all] Error 2
```

#### #6 - 20.10.2015 17:01 - Tobias Brunner

Looks like you haven't applied the patch properly. You should have the file src/include/linux/socket.h and it should define \_\_kernel\_sa\_family\_t.

#### #7 - 21.10.2015 16:17 - Bharath Meduri

i don't have GIT repository , Is there any way to apply patch without downloading repository ??

#### #8 - 21.10.2015 16:47 - Tobias Brunner

i don't have GIT repository , Is there any way to apply patch without downloading repository ??

Sure, download the patch and apply it with patch. But as mentioned you only need the socket.h file. Just download it ([source:src/include/linux/socket.h](#)) and copy it to src/include/linux/.

**#9 - 22.10.2015 06:27 - Bharath Meduri**

It compiled successfully, thanks a lot for support!! But i could not find ipsec.secrets file

ipsec.conf and strongswan.conf are present in /etc folder, but ipsec.secrets is missing.

ipsec.d is also present.

**#10 - 22.10.2015 08:17 - Tobias Brunner**

There is no default [ipsec.secrets](#) file, just create it yourself (however, there is some legacy code in [starter](#) that actually creates the file, if it does not yet exist, and uses [scepclient](#) to create a key and self-signed certificate).

**#11 - 26.11.2015 10:19 - Tobias Brunner**

- Status changed from Feedback to Closed
- Assignee set to Tobias Brunner
- Resolution set to No change required