

strongSwan - Issue #3661

StrongSwan Kernel modules were not loaded - Compiled from source code

21.12.2020 16:27 - TAHER BAHASHWAN

Status:	Closed	
Priority:	Normal	
Assignee:	Noel Kuntze	
Category:	build	
Affected version:	5.9.1	Resolution: No change required
Description		
Dears		
Kindly I need your support with this setup, after I installed strongswan by compiling it from source code, now I do not see strongswan kernel modules loaded, I came to know that because I see no policies installed and routes there Operating System and other details you can find them below:		
<pre>[root@b4a65b ~]# uname -r 3.8.13-118.49.1.el7uek.x86_64 [root@b4a65b ~]# cat /etc/redhat-release Red Hat Enterprise Linux Server release 7.8 (Maipo)</pre>		
Installation command and parameters:		
Configure		
<pre>./configure --enable-eap-identity --enable-eap-md5 --enable-eap-mschapv2 --enable-eap-tls --enable-eap-ttls --enable-eap-peap --enable-eap-tnc --enable-eap-dynamic --enable-eap-radius --enable-xauth-eap --enable-xauth-pam --enable-dhcp --enable-openssl --enable-addrblock --enable-unity --enable-certexpire --enable-radattr --enable-tools --disable-gmp --disable-static --enable-shared --enable-kernel-libipsec</pre>		
Then make make sudo make install		
Logs from /var/log/messages		
<pre>Dec 21 14:50:09 b4a65b charon: 07[ESP] could not find an outbound IPsec SA for reqid {1}, dropping packet Dec 21 14:50:10 b4a65b charon: 07[ESP] could not find an outbound IPsec SA for reqid {1}, dropping packet Dec 21 14:50:11 b4a65b charon: 07[ESP] could not find an outbound IPsec SA for reqid {1}, dropping packet Dec 21 14:50:12 b4a65b charon: 07[ESP] could not find an outbound IPsec SA for reqid {1}, dropping packet Dec 21 14:50:13 b4a65b charon: 07[ESP] could not find an outbound IPsec SA for reqid {1}, dropping packet</pre>		
<pre>[root@b4a65b ~]# ipsec statusall[root@b4a65b ~]# ipsec statusall Status of IKE charon daemon (strongSwan 5.8.1, Linux 3.8.13-118.49.1.el7uek.x86_64, x86_64): uptime: 28 minutes, since Dec 21 14:54:40 2020 malloc: sbrk 2428928, mmap 0, used 435344, free 1993584 worker threads: 7 of 16 idle, 5/0/4/0 working, job queue: 0/0/0/0, scheduled: 0 loaded plugins: charon aes des rc2 sha2 sha1 md5 random nonce x509 revocation constraints pubkey pkcs1 pkcs7 pkcs8 pkcs12 pgp dnskey sshkey pem openssl fips-prf curve25519 xcbc cmac hmac attr kernel-libipsec kernel-netlink resolve socket-default stroke vici updown eap-identity eap-md5 eap-mschapv2 eap-dynamic eap-radius eap-tls eap-ttls eap-peap eap-tnc xauth-generic xauth-eap xauth-pam tnc-tncs dhcp certexpire radattr addrblock unity c</pre>		

```
ounters
Listening IP addresses:
 192.168.100.7
 100.67.2.246
Connections:
IPSec-To-COB-RUH-OS: 100.67.2.246...91.122.172.11 IKEv2, dpddelay=10s
IPSec-To-COB-RUH-OS: local: [76.49.15.5] uses pre-shared key authentication
IPSec-To-COB-RUH-OS: remote: [91.122.172.11] uses pre-shared key authentication
IPSec-To-COB-RUH-OS: child: 100.67.2.0/24 === 10.10.103.0/28 TUNNEL, dpdaction=restart
Routed Connections:
IPSec-To-COB-RUH-OS{1}: ROUTED, TUNNEL, reqid 1
IPSec-To-COB-RUH-OS{1}: 100.67.2.0/24 === 10.10.103.0/28
Security Associations (0 up, 0 connecting):
 none
```

Config:

```
cd /usr/local/etc
[root@b4a65b etc]# cat ipsec.conf
config setup
    charondebug="all"
    uniqueids=yes
    strictcrlpolicy=no
```

```
conn IPSec-To-COB-RUH-OS
#aggressive = no
#fragmentation = yes
keyexchange = ikev2
authby=secret
installpolicy = yes
type = tunnel
left=100.67.2.246
right=91.122.172.11
leftid=76.49.15.5
rightid=91.122.172.11
leftsubnet=100.67.2.0/24
rightsubnet=10.10.103.0/28
ike=aes256-sha2_256-modp2048!
esp=aes256-sha2_256!
forceencaps = yes
keyingtries=0
ikelifetime=28800s
lifetime=3600s
dpddelay=10s
dpdtimeout=60s
dpdaction=restart
auto=route
```

Current Modules are:

```
[root@b4a65b etc]# lsmod
Module                Size  Used by
tun                   19993  2
xenfs                 3377   1
xen_privcmd          5587   1 xenfs
ppdev                 8174   0
ghash_clmulni_intel  4611   0
aesni_intel          45119   0
xts                   3242   1 aesni_intel
aes_x86_64           7935   1 aesni_intel
lrw                   4062   1 aesni_intel
gf128mul              7871   2 lrw,xts
ablk_helper           2997   1 aesni_intel
```

```

cryptd                9927  3  ghash_clmulni_intel,aesni_intel,ablk_helper
microcode             115735 0
parport_pc            21261 0
parport               38024 2  ppdev,parport_pc
pcspkr                2150  0
i2c_piix4             11538 0
i2c_core              30920 1  i2c_piix4
ip_tables             18323 0
xfs                   866206 2
libcrc32c             1252  1  xfs
ata_generic           3758  0
pata_acpi             3654  0
xen_netfront          21104 0
xen_blkfront          31495 3
crc32c_intel         14391 1
floppy                62993 0
serio_raw             5567  0
ata_piix              26174 0
dm_mirror             13667 0
dm_region_hash        10821 1  dm_mirror
dm_log                9451  2  dm_region_hash,dm_mirror
dm_mod                81239 9  dm_log,dm_mirror
ipv6                  334493 44
autofs4               33017 2

```

History

#1 - 21.12.2020 20:37 - Noel Kuntze

- Status changed from New to Feedback

Hi,

The errors are due to you using kernel-libipsec and libipsec. Don't load kernel-libipsec and the kernel IPsec implementation, that also supports policy based tunnels, will be used.
That is the root of all your issues.

Also, please don't install from source. CentOS and RHEL packages of strongSwan are usually in the EPEL repos. They should be good enough.

#2 - 22.12.2020 08:44 - TAHER BAHASHWAN

Noel Kuntze wrote:

Hi,

The errors are due to you using kernel-libipsec and libipsec. Don't load kernel-libipsec and the kernel IPsec implementation, that also supports policy based tunnels, will be used.
That is the root of all your issues.

Also, please don't install from source. CentOS and RHEL packages of strongSwan are usually in the EPEL repos. They should be good enough.

Hi

Many thanks, yes that is indeed resolved the issue, but how to get rid of the current installed one, now we have both ipsec command and strongswan command working after installing it

IPSec

Located in /usr/local/sbin/ipsec

```
[root@vClinic-VPN-Server ~]# ipsec version
```

```
Linux strongSwan U5.8.1/K3.8.13-118.49.1.e17uek.x86_64
```

```
University of Applied Sciences Rapperswil, Switzerland
```

```
See 'ipsec --copyright' for copyright information.
```

StrongSwan

Located in /sbin/strongswan

```
strongswan version
```

```
Linux strongSwan U5.7.2/K3.8.13-118.49.1.e17uek.x86_64
```

#3 - 22.12.2020 09:13 - Noel Kuntze

Hi,

run "make uninstall" in the directory of the sources you originally installed from.

#4 - 22.12.2020 10:17 - TAHER BAHASHWAN

Noel Kuntze wrote:

Hi,

run "make uninstall" in the directory of the sources you originally installed from.

Excellent dear :) Thanks a lot

#5 - 22.12.2020 10:25 - TAHER BAHASHWAN

Noel Kuntze wrote:

Hi,

The errors are due to you using kernel-libipsec and libipsec. Don't load kernel-libipsec and the kernel IPsec implementation, that also supports policy based tunnels, will be used.
That is the root of all your issues.

Also, please don't install from source. CentOS and RHEL packages of strongSwan are usually in the EPEL repos. They should be good enough.

What is the best way to install it from source code if kernel-libipsec and libipsec are causing this issue?

#6 - 22.12.2020 15:34 - Noel Kuntze

TBH the best way is to just not build them. Then you can't forget to disable them later.

You can configure which plugins are to be loaded before you start the daemon, but in your case, you already made the grave mistake of installing from source.

Best way to install from source is not to and instead to build a package of the code and install that package then.

#7 - 23.12.2020 13:49 - TAHER BAHASHWAN

Noel Kuntze wrote:

TBH the best way is to just not build them. Then you can't forget to disable them later.

You can configure which plugins are to be loaded before you start the daemon, but in your case, you already made the grave mistake of installing from source.

Best way to install from source is not to and instead to build a package of the code and install that package then.

Thanks a lot, Can you please give an example for enabling HA plugin for a running and installed StrongSwan package

#8 - 04.01.2021 11:39 - Tobias Brunner

- *Category set to build*

- *Status changed from Feedback to Closed*

- *Assignee set to Noel Kuntze*

- *Resolution set to No change required*

Can you please give an example for enabling HA plugin for a running and installed StrongSwan package

How to build a package with different configure options depends on the distribution and is out of scope here.