

strongSwan - Bug #809

[KNL] unable to install source route for 213.a.b.41

29.12.2014 18:21 - G. V.

Status:	Closed	Start date:	29.12.2014
Priority:	Normal	Due date:	
Assignee:	Tobias Brunner	Estimated time:	0.00 hour
Category:	kernel-interface		
Target version:	5.5.0		
Affected version:	5.2.1	Resolution:	Fixed

Description

Hi!

I have one computer/router with multiple interfaces.

The first interface is the wan connection (eth0) - x.y.z.16/24. The second interface (eth1) has a private network (192.168.XXX.0/24). The third interface (eth2) is connected to a network with 4 computers (a.b.c.40/29). The IP address for eth2 is a.b.c.41. The default gateway is x.y.z.1.

My ISP is routing everything for a.b.c.40/29 via x.y.z.16. But since there is a mail and a web server on this computer/router I need that outgoing IP address for locally generated packets to be a.b.c.41 not x.y.z.16.

Because of this I changed the default route this way:

```
ip route replace default via x.y.z.1 dev eth0 src a.b.c.41
```

So, the default route change from (ip r s):

```
default via x.y.z.1 dev eth0
```

to:

```
default via x.y.z.1 dev eth0 src a.b.c.41
```

Everything works fine but ipsec give me the following warning:

```
charon: 00[KNL] unable to install source route for a.b.c.41
```

The full trace is here:

```
charon: 11[KNL] using host a.b.c.41
```

```
charon: 11[KNL] using x.y.z.1 as nexthop to reach 79.AA.BB.CC/32
```

```
charon: 11[KNL] a.b.c.41 is on interface eth2
```

```
charon: 11[KNL] installing route: 192.AA.BB.0/24 via x.y.z.1 src a.b.c.41 dev eth2
```

```
charon: 11[KNL] getting iface index for eth2
```

```
charon: 11[KNL] unable to install source route for a.b.c.41
```

The route does not seems correct for me. charon should say something like this:

```
charon: 11[KNL] installing route: 192.AA.BB.0/24 via x.y.z.1 src a.b.c.41 dev eth0
```

If I do not alter the default route there is no warning and the "dev eth2" become "dev eth0" (the correct interface).

Anyway, the ipsec tunnel seems to be up and running correctly in both cases.

Sincerely,

G.V.

Related issues:

Related to Bug #824: kernel_netlink plugin decides on wrong interface for route

Closed

17.01.2015

Associated revisions

Revision 96b1fab5 - 10.06.2016 18:15 - Tobias Brunner

Merge branch 'interface-for-routes'

Changes how the interface for routes installed with policies is determined. In most cases we now use the interface over which we reach the other peer, not the interface on which the local address (or the source IP) is installed. However, that might be the same interface depending on the configuration (i.e. in practice there will often not be a change).

Routes are not installed anymore for drop policies and for policies with protocol/port selectors.

Fixes #809, #824, #1347.

History

#1 - 17.02.2015 17:40 - Tobias Brunner

- Related to Bug #824: *kernel_netlink* plugin decides on wrong interface for route added

#2 - 10.06.2016 18:37 - Tobias Brunner

- Description updated
- Category set to *kernel-interface*
- Status changed from *New* to *Closed*
- Assignee set to *Tobias Brunner*
- Target version set to *5.5.0*
- Resolution set to *Fixed*

This is believed to be fixed. Please open a new ticket if you still find there is an issue.