

strongSwan - Bug #1304

Invalid attribute length 16 for INTERNAL_IP6_ADDRESS when using IKEv1

09.02.2016 19:05 - zhenqi dong

Status:	Closed	Start date:	09.02.2016
Priority:	Normal	Due date:	
Assignee:	Tobias Brunner	Estimated time:	0.00 hour
Category:	interoperability	Resolution:	Fixed
Target version:	5.4.0		
Affected version:	5.3.4		

Description

Tried to set up the ipv6 in ipv6 tunnel to an established headend (not strongswan), get the following error message:

```
invalid attribute length 16 for INTERNAL_IP6_ADDRESS
CONFIGURATION_V1 verification failed
could not decrypt payloads
```

ipsec statusall shows the setup stuck at:

```
vig[3]: Tasks queued: QUICK_MODE ISAKMP_DPD ISAKMP_DPD
      vig[3]: Tasks active: MODE_CONFIG
```

while charon reports back 'connection established successfully'

Associated revisions

Revision 91d80298 - 03.03.2016 17:32 - Tobias Brunner

ikev1: Send and verify IPv6 addresses correctly

According to the mode-config draft there is no prefix sent for IPv6 addresses in IKEv1. We still accept 17 bytes long addresses for backwards compatibility with older strongSwan releases.

Fixes #1304.

History

#1 - 10.02.2016 10:24 - Tobias Brunner

- Tracker changed from Issue to Bug
- Subject changed from invalid attribute length 16 for INTERNAL_IP6_ADDRESS to Invalid attribute length 16 for INTERNAL_IP6_ADDRESS when using IKEv1
- Status changed from New to Feedback
- Priority changed from High to Normal
- Target version set to 5.4.0

invalid attribute length 16 for INTERNAL_IP6_ADDRESS

That's because currently the code for verifying IKEv1 and IKEv2 configuration attributes is the same and with IKEv2 the INTERNAL_IP6_ADDRESS attribute is 17 bytes long (it includes a prefix). However, according to [draft-dukes-ike-mode-cfg](#) only the IP is sent for IKEv1 so the length is 16 bytes there.

I pushed a fix for this to the *ikev1-conf-ipv6* branch.

#2 - 03.03.2016 17:33 - Tobias Brunner

- Category set to interoperability
- Status changed from Feedback to Closed
- Assignee set to Tobias Brunner

- Resolution set to Fixed