strongSwan - Feature #1001

Add support for some IPv6 RADIUS attributes

19.06.2015 02:06 - Michał Zegan

Status:	Closed	**Start date:**	19.06.2015
Priority:	Normal	**Due date:**	
Assignee:	Tobias Brunner	**Estimated time:**	0.00 hour
Category:	libcharon		
Target version:	5.3.3		
Resolution:	Fixed		

Description

Hello.

Please add support for processing ipv6 related attributes from radius in addition to ipv4 ones.

Associated revisions

Revision ec490e68 - 17.08.2015 11:23 - Tobias Brunner

eap-radius: Add support for some basic IPv6-specific RADIUS attributes

These are defined in RFC 6911.

Fixes #1001.

Revision 39afe6e9 - 17.08.2015 11:23 - Tobias Brunner

eap-radius: Use Framed-IPv6-Address attributes to send IPv6 VIPs in accounting messages

This attribute is more appropriate for single IPv6 virtual IPs than the
Framed-IPv6-Prefix attribute.

Fixes #1001.

Revision 00c2c87b - 28.08.2015 16:52 - Tobias Brunner

eap-radius: Fix creation of host_t objects based on Framed-IPv6-Address attributes

Fixes ec490e68ae37 ("eap-radius: Add support for some basic IPv6-specific RADIUS attributes").
References #1001.

History

#1 - 19.06.2015 10:19 - Tobias Brunner

- Subject changed from Unsupported radius attrib to Unsupported IPv6 RADIUS attributes

- Status changed from New to Feedback

> Please add support for processing ipv6 related attributes from radius in addition to ipv4 ones.

While RFC 3162 defines RADIUS attributes for IPv6 (Framed-Interface-Id, Framed-IPv6-Prefix) these currently don't have a counterpart in strongSwan's IKE implementation. That's mainly because we currently don't support RFC 5739, which defines the corresponding INTERNAL_IP6_LINK and INTERNAL_IP6_PREFIX configuration attributes.

One attribute defined in RFC 3162 that could be handled quite easily is Framed-IPv6-Pool, which we could use to find an address pool by name from which to assign an IP to the client.

#2 - 20.06.2015 17:20 - Michał Zegan

I believe there is framed_ipv6_address attribute too. rfc6911, section 3.1, or I misread something?
Tobias Brunner wrote:

> > Please add support for processing ipv6 related attributes from radius in addition to ipv4 ones.

> While RFC 3162 defines RADIUS attributes for IPv6 (Framed-Interface-Id, Framed-IPv6-Prefix) these currently don't have a counterpart in strongSwan's IKE implementation. That's mainly because we currently don't support RFC 5739, which defines the corresponding INTERNAL_IP6_LINK and INTERNAL_IP6_PREFIX configuration attributes.
>
> One attribute defined in RFC 3162 that could be handled quite easily is Framed-IPv6-Pool, which we could use to find an address pool by name from which to assign an IP to the client.

#3 - 22.06.2015 11:38 - Tobias Brunner

> I believe there is framed_ipv6_address attribute too. rfc6911, section 3.1, or I misread something?

No, you are quite right. Didn't see that. The patch in the *radius-ipv6* branch adds support for the *Framed-IPv6-Address* and *DNS-Server-IPv6-Address* attributes.

#4 - 27.06.2015 20:12 - Michał Zegan

Actually a suggestion:
Strongswan sends Framed-IPv6-Prefix in accounting requests. Shouldn't it actually send Framed-IPv6-Address? I believe it would be more appropriate, but not sure.

#5 - 29.06.2015 10:47 - Tobias Brunner

> Actually a suggestion:
> Strongswan sends Framed-IPv6-Prefix in accounting requests. Shouldn't it actually send Framed-IPv6-Address? I believe it would be more appropriate, but not sure.

Yes, probably. The comment there indicates an attempt to map the single IPv6 addresses we assign to clients to the Framed-IPv6-Prefix attribute. I pushed another commit to the *radius-ipv6* branch that implements your suggestion.

#6 - 28.08.2015 16:47 - Tobias Brunner

- Subject changed from Unsupported IPv6 RADIUS attributes to Add support for some IPv6 RADIUS attributes

- Status changed from Feedback to Closed

- Assignee set to Tobias Brunner

- Target version set to 5.3.3

- Resolution set to Fixed