pfSense - Bug #6678

Virtual IPv6 IP (IP Alias) on a DHCPv6-PD tracked interface causes inconsistencies

08/03/2016 10:09 PM - Gary Dezern

Status:	Duplicate		**Start date:**	08/03/2016
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:				
Affected Version:	2.3.2		**Affected Architecture:**	

Description

2.3.2-RELEASE (amd64)

WAN interface gets a IPv6 /60 prefix delegation from my ISP. (example: 2001:1:2:30/60) My LAN interface is configured to track that IPv6 with a prefix ID of 1 (so comes up with 2001:1:2:31:a:b:c:d) DHCPv6 Server is configured to hand out a range of ::1000 to ::2000. RA is enabled (assisted mode.)

Given that configuration, a device attaching to the LAN interface will be DHCPv6 assigned an address similar to 2001:1:2:31::1000 and/or use stateless to give itself a 2001:1:2:31::/128.

If I then add a virtual IPv6 IP (IP Alias) to the LAN interface with a ULA address (such as fd01:19fc:be04:1:/64), save the virtual IP, nothing in radvd.conf or dhcpv6.conf changes. Then I go into the interfaces->LAN, re-save the LAN interface (and apply) it causes radvd.conf and dhcpv6.conf to be updated. However, now it uses the ULA prefix instead of the tracked IPv6 prefix.

Being that radvd.conf and dhcpv6.conf is only providing a SINGLE prefix (and not multiple prefixes - one for the global and one for the ULA), it would be more desirable for the global to be advertised (as it's the only one routable outside the site - in theory.)

So, two issues here:

1. Virtual IP additions either shouldn't cause changes to the DHCPv6/RA configurations or should at least give the option of which address to use. (In other words, favor the properly configured IPv6 over virtual ones.)

2. If #1 should always change to use the virtual IP and not the globally tracked one, then it should either do so immediately on saving, or remind the user to edit/save/apply the interface for the changes to be reflected. (Otherwise, it's inconsistent.)

I'm not sure the best category for this ticket. CARP? DHCP6?

History

#1 - 08/03/2016 11:31 PM - Gary Dezern

In addition, this messes up the snort default pass list, adding the VIP instead of the actual interface IP.

#2 - 08/11/2016 05:55 AM - Anonymous

This looks like it might be a duplicate of https://redmine.pfsense.org/issues/5999.

#3 - 08/11/2016 07:54 AM - Gary Dezern

agreed on it being a dupe. Not sure how I missed 5999 when I searched initially.

#4 - 08/13/2019 01:39 PM - Jim Pingle

- Status changed from New to Duplicate