

pfSense - Bug #9175

pfSense does not send out IPv6 UDP fragments for packets created local

12/06/2018 09:40 AM - Andi Admin

Status:	New	Start date:	12/06/2018
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Affected Architecture:	
Affected Version:	2.4.4_1		

Description

When using Strongswan as VPN Endpoint on pfsense with IPSEC sometimes "oversized" UDP packets are created in the IKE handshake if the remote does not support IKE Fragmentation. With IPv4 the "oversized" UDP packet is split (fragmented) and send out as it should, with IPv6 such packets are dropped. Attached are a dump on the WAN interface where Strongswan is bound to with IPv4 working and IPv6 missing the oversized packets.

Hints:

The oversized packets are created because of certificates/key lenght when used with EAP-TLS

IPv6 fragments created at the source is a valid use case, only routers are not allowed to fragment with IPv6

This problem does affect all Windows clients up to Windows 10/1803 if IPv6 should be used, later releases are able to do IKEv2 Fragmentation and avoid this problem

History

#1 - 12/14/2018 02:01 AM - Andi Admin

Can anyone comment on how to proceed or what might be needed to reproduce?

Files

packetcapture-w7-ipv6-non-working-filter2.cap	3.88 KB	12/06/2018	Andi Admin
packetcapture-w7-ipv4-working-filter.cap	44.3 KB	12/06/2018	Andi Admin