

pfSense - Bug #9837

ipv6 is not completely disabled on the interfaces

10/20/2019 02:04 PM - Viktor Gurov

Status:	New	Start date:	10/20/2019
Priority:	Very Low	Due date:	
Assignee:		% Done:	0%
Category:	Interfaces	Estimated time:	0.00 hour
Target version:		Affected Architecture:	
Affected Version:	2.5.0		

Description

When IPv6 Configuration Type is None on Interfaces configuration page, IPv6 link-local addresses still uses You can see OSPFv3 hello packets, can use ipv6 from these interfaces, or, if rules like "IPv4+IPv6" used, can connect to services

to completely disable IPv6 on interfaces, option **ifdisabled** must be used, i.e. "ifconfig vtnet0 inet6 ifdisabled" from ifconfig (8):

```
ifdisabled
Set a flag to disable all of IPv6 network communications on the
specified interface. Note that if there are already configured
IPv6 addresses on that interface, all of them are marked as
"tentative" and DAD will be performed when this flag is cleared.
```

pfSense 2.5.0.a.20191018.2017

History

#1 - 10/21/2019 07:46 AM - Jim Pingle

- Priority changed from Normal to Very Low

That seems like it would not be desirable to set by default. There are people who want to run with linklocal addresses only in certain scenarios. It could maybe be an extra option.

#2 - 10/23/2019 01:34 PM - Manuel Piován

be careful

<https://www.freebsd.org/cgi/man.cgi?query=ifconfig&sektion=8&manpath=freebsd-release-ports#end>

BUGS

Basic IPv6 node operation requires a link-local address on each interface configured for IPv6. Normally, such an address is automatically configured by the kernel on each interface added to the system or enabled; this behavior may be disabled by setting per-interface flag `-auto_linklocal`.

The default value of this flag is 1 and can be disabled by using the `sysctl` MIB variable `net.inet6.ip6.auto_linklocal`.

Do not configure IPv6 addresses with no link-local address by using `ifconfig`. It can result in unexpected behaviors of the kernel.

#3 - 10/24/2019 01:16 AM - Viktor Gurov

Manuel Piovan wrote:

Do not configure IPv6 addresses with no link-local address by using ifconfig. It can result in unexpected behaviors of the kernel.

ifdisabled option do not remove link-local addresses, but only mark them as "tentative" like:

```
inet6 fe80::eea:fdff:fe32:b203%vtnet3 prefixlen 64 tentative scopeid 0x
nd6 options=29<PERFORMNUD,IFDISABLED,AUTO_LINKLOCAL>
```