

pfSense - Bug #3657

Web Interface - Missing Static IPv6 /127 Subnet Prefix

05/15/2014 04:26 AM - Cyril Tourist

Status:	Resolved	Start date:	05/15/2014
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:	Web Interface	Estimated time:	0.00 hour
Target version:	2.2	Affected Architecture:	
Affected Version:	2.1-IPv6		

Description

Bug: When using the web interface (GUI) to configure a network interface with a static IPv6 the subnet prefix /127 is not available.

Workaround: Use the console (CLI) to configure the network interface.

Tested Affected Versions: 2.1.2 & 2.1.3

Associated revisions

Revision 8948f125 - 01/07/2015 11:47 PM - Chris Buechler

Also include /127 for IPv6, it works fine. Ticket #3657

Revision 2727e3fc - 01/07/2015 11:48 PM - Chris Buechler

Also include /127 for IPv6, it works fine. Ticket #3657

History

#1 - 05/16/2014 12:13 AM - Phillip Davis

/usr/local/www/interfaces.php has code to specifically exclude 127:

```
for ($i = 128; $i > 0; $i--) {
if($i <> 127) {
echo "<option value=\"{$i}\" ";
if ($i == $pconfig['subnetv6']) echo "selected=\"selected\"";
echo ">" . $i . "</option>";
}
}
```

I wonder why that is?

#2 - 05/16/2014 02:15 AM - Doktor Notor

@Phil: There was RFC 3627 (<http://tools.ietf.org/html/rfc3627>) especially discouraging the use of /127. It's now in historic status, see RFC 6547 (<http://tools.ietf.org/html/rfc6547>). The current document dealing with /127 appears to be RFC 6164 (<http://tools.ietf.org/html/rfc6164>).

#3 - 05/16/2014 02:27 AM - Chris Buechler

- Affected Version changed from 2.1.2 to 2.1-IPv6

Because FreeBSD 8.x doesn't support it, the same as it doesn't support /31s. 10.x might support it, as it does support /31s, will need to be checked before changing the missing /127.

#4 - 05/22/2014 05:08 AM - Cyril Tourist

We have successfully been using a IPv6 /127 subnet to connect our pfSense router with our ISP's router (COLT).
The use of a /127 was defined by COLT to connect our router with them.

The *very very simplified* setup looks something like this:

```
<ISP 'COLT' Router> [2001:920:X:X::24/127] <-----> [2001:XXX:X:X::25/127] <pfSense Router> [2001:920:XXXX::1/48] <-----> 2001:920:XXXX::/48  
<Assigned /48 Subnet>
```

This setup has been working as expected (other then the GUI bug) with pfSense version 2.1 (FreeBSD 8.3-RELEASE-p11).
@Chris It would therefore seem that FreeBSD 8.3 supports /127 subnets?

#5 - 01/07/2015 11:47 PM - Chris Buechler

- *Status changed from New to Resolved*

- *Target version set to 2.2*

this has been fixed in 2.2

Files

pfsense-ipv6-subnet-bug.png	15.8 KB	05/15/2014	Cyril Tourist
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