pfSense - Feature #4321

Enable IPv6 for miniupnpd

01/27/2015 02:10 PM - Daniel Becker

Status:	Resolved		**Start date:**	01/27/2015
Priority:	Normal		**Due date:**	
Assignee:	Chris Buechler		**% Done:**	100%
Category:	uPNP		**Estimated time:**	0.00 hour
Target version:	2.3			
Plus Target Version:			**Release Notes:**	Default
Description				

Miniupnpd supports IPv6; this can be enabled by adding the "IPV6" and "UPNP_IGDV2" make options to the port. See attached patch.

Associated revisions

Revision 679c4ac7 - 10/26/2015 03:47 AM - Renato Botelho

Enable IPV6 and UPNP_IGDV2 on net/miniupnpd, fixes #4321

Revision 512b8b22 - 01/22/2016 10:11 PM - Chris Buechler

Revert IPv6 and IGD2 change as it appears it's responsible for breaking many formerly-working upnp circumstances. Ticket #5730. Originally added as part of Ticket #4321

Revision 95246771 - 01/25/2016 07:01 PM - Chris Buechler

Re-enable IPV6 for miniupnpd, seems it's not responsible for any issues. Ticket #5730 and Ticket #4321

History

#1 - 07/19/2015 01:53 PM - Kill Bill

Duplicate of #1835

#2 - 10/26/2015 03:40 AM - Renato Botelho

- Target version set to 2.3

#3 - 10/26/2015 03:50 AM - Renato Botelho

- Status changed from New to Feedback

- % Done changed from 0 to 100

Applied in changeset 679c4ac73f8d5c5fe71a9edb3ccdb1f955d616cd.

#4 - 11/12/2015 11:25 AM - Jim Thompson

- Assignee set to Chris Buechler

assigned to cmb for followup

#5 - 11/13/2015 02:16 PM - Jim Pingle

The daemon appears to have IPv6 active now and it sees an IPv6 SSDP message but it doesn't like it for some reason. May be the setup I'm using (not static IP, track6 LAN), claims the sending system isn't in LAN

```
Nov 13 14:50:54     miniupnpd[70037]: write: Invalid argument
Nov 13 14:50:54     miniupnpd[70037]: SSDP packet sender [2001:db8:1:ee30:2dde:9d99:912d:3acb]:35998 not from
a LAN, ignoring
```

Though that is in the same /64 as the LAN interface miniupnpd is set to listen upon so I'm not sure what it's complaining about. Needs more testing.

#6 - 11/13/2015 02:25 PM - Daniel Becker

Could it be trying to prefix-match against the link-local address?

#7 - 11/13/2015 02:54 PM - Jim Pingle

It's possible. I can't find a local client program that claims IPv6 UPnP support to test with aside from upnpc and it doesn't select the link-local when sending, and does not have a way to nudge it that I can see. I even tried backing off a client to have link-local only and then send SSDP but miniupnpd didn't show any sign it saw the packets.

May be the fault of the client here -- we need a lead on a proper piece of client software that will actually send IPv6 UPnP how the daemon expects to see it.

#8 - 11/13/2015 03:32 PM - Kill Bill

There's this but it's commercial stuff, though they offer some trial:

http://www.qacafe.com/products/cdrouter/
http://support.qacafe.com/knowledge-base/upnp-testing-guide/#upnp-over-ipv6

#9 - 11/13/2015 03:54 PM - Daniel Becker

Looks like a bug in miniupnpd to me: https://github.com/miniupnp/miniupnp/issues/160

#10 - 11/20/2015 12:27 AM - Chris Buechler

- Target version changed from 2.3 to Future

Similar with upnpc here.

```
miniupnpd[7253]: HTTP peer [2605:6000:abcd:8888:4d74:74b9:50b7:4f9f]:34904 is not from a LAN, closing the conn
ection
```

Looked through a slew of torrent clients and other things, can't seem to find anything that actually sends v6 upnp, putting off since it's a miniupnpd issue (which from the looks of it will be fixed at some point) and we can't seem to find anything that actually uses it anyway.

Daniel: if it's something you'd like to pursue further, feel free to follow up here if upstream issue's resolved.

#11 - 11/20/2015 01:12 AM - Daniel Becker

Fixes for this and a few other BSD-related issues have been accepted upstream. They're included in the most recent tarball on the miniupnp download page ([miniupnpd-1.9.20151118.tar.gz](#)), but I don't believe the FreeBSD port has been updated yet.

#12 - 11/20/2015 01:34 AM - Daniel Becker

Filed [PR 204694](#) to update the FreeBSD port.

#13 - 11/20/2015 03:21 PM - Chris Buechler

- Status changed from Feedback to Assigned

- Assignee changed from Chris Buechler to Renato Botelho

- Target version changed from Future to 2.3

Thanks Daniel. That looks straight forward enough, Renato should be able to get that committed easily.

#14 - 11/23/2015 11:42 AM - Renato Botelho

- Status changed from Assigned to Feedback

- Assignee changed from Renato Botelho to Chris Buechler

I took FreeBSD PR, but need to wait for maintainer approval or timeout after 14 days.

Anyway, I've pushed the update to out FreeBSD-ports repo and rebuilt packages, new version is available on 2.3 snaps.

#15 - 11/23/2015 03:08 PM - Jim Pingle

Behavior is slightly different with upnpc now, though it's still not working.

Server log is the same saying the client IP address is no on a LAN, client now shows that it found a UPnP device on the network but then says "No valid UPNP Internet Gateway Device found" after listing the server.

#16 - 11/23/2015 04:42 PM - Daniel Becker

Strange, works fine here (albeit on 2.2.5):

```
$ upnpc -m lagg0 -S
upnpc : miniupnpc library test client, version 1.9.
 (c) 2005-2015 Thomas Bernard.
Go to http://miniupnp.free.fr/ or http://miniupnp.tuxfamily.org/
for more information.
List of UPNP devices found on the network :
 desc: http://172.20.0.1:2189/rootDesc.xml
 st: urn:schemas-upnp-org:device:InternetGatewayDevice:1

Found valid IGD : http://172.20.0.1:2189/ctl/IPConn
Local LAN ip address : 172.20.3.3
FirewallEnabled: 1 & Inbound Pinhole Allowed: 1
GetFirewallStatus:
   Firewall Enabled: Yes
   Inbound Pinhole Allowed: Yes
Bytes:   Sent: 1765229673    Recv: 1856554871
Packets: Sent: 52641488    Recv: 103007220
$ upnpc -6 -m lagg0 -S
upnpc : miniupnpc library test client, version 1.9.
 (c) 2005-2015 Thomas Bernard.
Go to http://miniupnp.free.fr/ or http://miniupnp.tuxfamily.org/
for more information.
setsockopt(IP_MULTICAST_TTL,...): Invalid argument
List of UPNP devices found on the network :
 desc: http://[2601:646:x:x:x:x:x]:2189/rootDesc.xml
 st: urn:schemas-upnp-org:device:InternetGatewayDevice:1
```

```
Found valid IGD : http://[2601:646:x:x:x:x:x:x]:2189/ctl/IPConn
Local LAN ip address : 2601:646:x:x:x:x:x:x
FirewallEnabled: 1 & Inbound Pinhole Allowed: 1
GetFirewallStatus:
   Firewall Enabled: Yes
   Inbound Pinhole Allowed: Yes
Bytes:   Sent: 1766304397   Recv: 1863805814
Packets: Sent: 52649204    Recv: 103017871
```

#17 - 11/23/2015 04:50 PM - Daniel Becker

Can you manually restart miniupnpd in foreground mode (-d)? That gives a bit more info beyond what's in the log.

#18 - 02/02/2016 11:12 PM - Chris Buechler

- Status changed from Feedback to Resolved

option's enabled. Does show up as a valid IGD on IPv6 in upnpc. Haven't found any real applications that use IPv6 upnp

Files

enable_ipv6.patch	444 Bytes	01/27/2015	Daniel Becker