

pfSense - Bug #79

DNSMasq removed ISC-DHCP Log parsing. Need to write a replacement

09/08/2009 02:28 PM - Scott Ullrich

Status:	Resolved	Start date:	09/08/2009
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:	Unknown	Estimated time:	0.00 hour
Target version:	2.0	Affected Architecture:	
Affected Version:	All		

Description

From their notes:

Remove ISC-leasefile reading code. This has been deprecated for a long time, and last time I removed it, it ended up going back by request of one user. This time, it's gone for good; otherwise it would need to be re-worked to support multiple domains (see below).

Associated revisions

Revision 7ea754a8 - 12/06/2009 07:26 PM - Scott Ullrich

Adding script to parse dhcpd log file and populate /etc/hosts so that we can move to a newer dnsmasq. in addition, the current dnsmasq isc parsing is broken so there is not a choice to move either way. Ticket #79

Revision e44c520f - 04/18/2015 09:10 AM - Sjon Hortensius

Reorder elements, use events, remove table

refs #79

History

#1 - 11/30/2009 04:03 PM - Jim Pingle

It seems that dnsmasq keeps all of these internally.

If we rewrite this with a daemon or cron script of some kind, it would probably have to add these to /etc/hosts without clobbering the existing entries which are kept there. The DHCP lines could probably be tagged with a comment like so:

```
192.168.1.52 mypc.example.com mypc #DHCP Lease Host "mypc"
```

When the hosts file is built in the PHP code, these lines could be stripped out and then a function called at the end to parse the leases file and add them back in. The new program could then just append to the end of the file.

Sound reasonable? I can start tinkering with a parser if there are no objections.

#2 - 11/30/2009 04:04 PM - Scott Ullrich

Sounds good to me.

#3 - 11/30/2009 04:07 PM - Scott Ullrich

PS: I don't think anything else writes to /etc/hosts except dnsmasq.

#4 - 12/06/2009 05:11 PM - Scott Ullrich

system_hosts_generate() generates the /etc/hosts entries for dnsmasq. so it does look like we will need the code to be able to determine if an entry is for dnsmasq or not. #DHCP Lease Host "mypc" would be good.

#5 - 12/06/2009 06:42 PM - Scott Ullrich

Wrote this shell script: <http://cvs.pfsense.org/~sullrich/rc.parse-isc-dhcpd>

Please review.

#6 - 12/06/2009 07:29 PM - Scott Ullrich

All code committed. This appears to work but I am concerned that the shell script forks so it doubles the ram usage to about 3 megabytes. need to investigate using lua or some other language that uses less memory (c?).

#7 - 12/06/2009 07:29 PM - Scott Ullrich

- % Done changed from 0 to 20

#8 - 12/07/2009 06:20 PM - Scott Ullrich

- Target version changed from 2.0 to 3

Targeting 3.0 for an enhanced daemon. This seems to work really well.

#9 - 03/26/2010 09:29 PM - Ermal Luçi

- Status changed from New to Feedback

- % Done changed from 20 to 100

Replacement done.

#10 - 04/01/2010 02:12 AM - Ermal Luçi

- Target version changed from 3 to 2.0

#11 - 04/28/2010 09:20 PM - Chris Buechler

- Status changed from Feedback to Resolved

#12 - 07/04/2010 12:03 AM - Adam Stylinski

After having left pfsense running for a while my dynamic hostname resolution seems to have vanished.

```
1. uptime
   11:58PM up 27 days, 10:54, 2 users, load averages: 0.08, 0.02, 0.01
```

The following are all static hosts:

```
1. cat /etc/hosts
   127.0.0.1    localhost localhost.adamsnet
   192.168.0.1  pfsense.adamsnet pfsense
   129.137.4.127 pohl.adamsnet pohl
   192.168.0.245 macbox.adamsnet macbox
```

```
192.168.0.2 downstairs.adamsnet downstairs
192.168.0.60 nasbox.adamsnet nasbox
192.168.0.96 G4box.adamsnet G4box
192.168.0.116 brynns.adamsnet brynns
192.168.0.119 freebsdbox.adamsnet freebsdbox
192.168.0.121 mythtvbox.adamsnet mythtvbox
192.168.0.124 BRN001BA9151890.adamsnet BRN001BA9151890
```

As you can see there are plenty of dynamic hosts:

1. cat /var/dhcpd/var/db/dhcpd.leases
2. All times in this file are in UTC (GMT), not your local timezone. This is
3. not a bug, so please don't ask about it. There is no portable way to
4. store leases in the local timezone, so please don't request this as a
5. feature. If this is inconvenient or confusing to you, we sincerely
6. apologize. Seriously, though - don't ask.
7. The format of this file is documented in the dhcpd.leases(5) manual page.
8. This lease file was written by isc-dhcp-V3.0.7

```
lease 192.168.1.25 {
starts 6 2010/06/26 22:07:28;
ends 0 2010/06/27 00:07:28;
tstp 0 2010/06/27 00:07:28;
binding state free;
hardware ethernet c4:17:fe:a4:3e:92;
uid "\001\304\027\376\244>\222";
}
lease 192.168.1.21 {
starts 0 2010/07/04 01:07:53;
ends 0 2010/07/04 03:07:53;
tstp 0 2010/07/04 03:07:53;
binding state free;
hardware ethernet 00:22:5f:c8:f6:20;
uid "\001\000\"_310\366 ";
}
lease 192.168.1.23 {
starts 0 2010/07/04 02:11:56;
ends 0 2010/07/04 04:11:56;
binding state active;
next binding state free;
hardware ethernet 00:01:02:c9:3a:76;
uid "\001\000\001\002\311:v";
client-hostname "wap1";
}
lease 192.168.1.19 {
starts 0 2010/07/04 02:14:33;
ends 0 2010/07/04 04:14:33;
binding state active;
next binding state free;
hardware ethernet 00:1f:3c:c1:bf:28;
uid "\001\000\037<\301\277(";
client-hostname "zephyr";
}
lease 192.168.1.22 {
starts 0 2010/07/04 03:07:54;
ends 0 2010/07/04 05:07:54;
binding state active;
next binding state free;
hardware ethernet 00:50:da:b9:7e:b6;
uid "\001\000P\332\271~\266";
client-hostname "wap2";
}
lease 192.168.0.244 {
starts 0 2010/02/14 20:17:42;
ends 0 2010/02/14 20:57:07;
tstp 0 2010/02/14 20:57:07;
binding state free;
hardware ethernet 00:1b:21:19:ec:63;
uid "\001\000\033\031\354c";
}
lease 192.168.0.41 {
starts 6 2010/02/20 04:50:56;
ends 6 2010/02/20 04:56:11;
tstp 6 2010/02/20 04:56:11;
binding state free;
```

```
hardware ethernet 00:0c:29:87:40:fc;
}
lease 192.168.0.243 {
starts 3 2010/02/24 20:22:02;
ends 3 2010/02/24 21:11:15;
tstp 3 2010/02/24 21:11:15;
binding state free;
hardware ethernet 00:1b:21:19:ec:63;
}
lease 192.168.0.240 {
starts 3 2010/02/24 21:25:07;
ends 3 2010/02/24 23:25:07;
tstp 3 2010/02/24 23:25:07;
binding state free;
hardware ethernet 08:00:27:54:7e:f8;
}
lease 192.168.0.238 {
starts 0 2010/03/14 19:42:05;
ends 0 2010/03/14 21:42:05;
tstp 0 2010/03/14 21:42:05;
binding state free;
hardware ethernet 08:00:27:ec:4f:9e;
}
lease 192.168.0.75 {
starts 3 2010/03/17 16:10:27;
ends 3 2010/03/17 18:10:27;
tstp 3 2010/03/17 18:10:27;
binding state free;
hardware ethernet 00:0c:29:79:87:5b;
uid "\001\000\014)y\207[";
}
lease 192.168.0.235 {
starts 1 2010/03/22 03:38:58;
ends 1 2010/03/22 05:38:58;
tstp 1 2010/03/22 05:38:58;
binding state free;
hardware ethernet 00:0c:29:55:52:0e;
}
lease 192.168.0.234 {
starts 1 2010/03/22 03:40:23;
ends 1 2010/03/22 05:40:23;
tstp 1 2010/03/22 05:40:23;
binding state free;
hardware ethernet 08:00:27:81:b6:d8;
}
lease 192.168.0.242 {
starts 5 2010/04/30 04:33:41;
ends 5 2010/04/30 06:33:41;
tstp 5 2010/04/30 06:33:41;
binding state free;
hardware ethernet 00:24:21:61:b3:3d;
uid "\001\000$a!263=";
}
lease 192.168.0.241 {
starts 5 2010/05/28 21:27:45;
ends 6 2010/05/29 21:27:45;
tstp 6 2010/05/29 21:27:45;
binding state free;
hardware ethernet 08:00:27:0c:9e:0d;
}
lease 192.168.0.233 {
starts 5 2010/06/04 22:03:02;
ends 6 2010/06/05 00:03:02;
tstp 6 2010/06/05 00:03:02;
binding state free;
hardware ethernet 00:0c:29:c9:68:26;
uid "\001\000\014)\311h&";
}
lease 192.168.0.230 {
starts 2 2010/06/15 22:17:47;
ends 3 2010/06/16 00:17:47;
tstp 3 2010/06/16 00:17:47;
binding state free;
hardware ethernet 00:24:1d:20:64:12;
}
}
```

```

lease 192.168.0.237 {
starts 1 2010/06/21 21:51:50;
ends 1 2010/06/21 21:53:50;
tstp 1 2010/06/21 21:53:50;
binding state free;
hardware ethernet e1:6c:d6:ae:52:90;
uid "\001\341\326\256R\220";
}
lease 192.168.0.236 {
starts 1 2010/06/21 21:51:51;
ends 1 2010/06/21 21:53:51;
tstp 1 2010/06/21 21:53:51;
binding state free;
hardware ethernet e9:eb:b3:a6:db:3c;
uid "\001\351\353\263\246\333<";
}
lease 192.168.0.15 {
starts 4 2010/06/24 01:22:30;
ends 4 2010/06/24 03:22:30;
tstp 4 2010/06/24 03:22:30;
binding state free;
hardware ethernet 00:0c:29:ad:ad:eb;
}
lease 192.168.0.231 {
starts 5 2010/06/25 21:53:01;
ends 5 2010/06/25 23:53:01;
tstp 5 2010/06/25 23:53:01;
binding state free;
hardware ethernet 00:24:1d:20:64:12;
uid "\001\000$\035 d\022";
}
lease 192.168.0.232 {
starts 6 2010/07/03 20:45:41;
ends 6 2010/07/03 22:45:41;
tstp 6 2010/07/03 22:45:41;
binding state free;
hardware ethernet 00:1f:d0:81:7e:37;
uid "\001\000\037\320\201~7";
}
lease 192.168.0.93 {
starts 0 2010/07/04 02:32:44;
ends 0 2010/07/04 04:32:44;
binding state active;
next binding state free;
hardware ethernet 00:11:24:d6:92:d8;
client-hostname "powerbook";
}
lease 192.168.0.239 {
starts 0 2010/07/04 02:55:13;
ends 0 2010/07/04 04:55:13;
binding state active;
next binding state free;
hardware ethernet 00:1b:21:19:ec:63;
client-hostname "mythbox3";
}
lease 192.168.0.82 {
starts 0 2010/07/04 03:10:12;
ends 0 2010/07/04 05:10:12;
binding state active;
next binding state free;
hardware ethernet 00:e0:b8:38:ad:8e;
uid "\001\000\340\2708\255\216";
client-hostname "bsdtop";
}
lease 192.168.1.23 {
starts 0 2010/07/04 03:11:56;
ends 0 2010/07/04 05:11:56;
binding state active;
next binding state free;
hardware ethernet 00:01:02:c9:3a:76;
uid "\001\000\001\002\311.v";
client-hostname "wap1";
}
lease 192.168.1.19 {
starts 0 2010/07/04 03:14:33;

```

```
ends 0 2010/07/04 05:14:33;
binding state active;
next binding state free;
hardware ethernet 00:1f:3c:c1:bf:28;
uid "\001\000\037<\301\277(";
client-hostname "zephyr";
}
lease 192.168.0.93 {
starts 0 2010/07/04 03:32:44;
ends 0 2010/07/04 05:32:44;
binding state active;
next binding state free;
hardware ethernet 00:11:24:d6:92:d8;
client-hostname "powerbook";
}
lease 192.168.0.239 {
starts 0 2010/07/04 03:55:13;
ends 0 2010/07/04 05:55:13;
binding state active;
next binding state free;
hardware ethernet 00:1b:21:19:ec:63;
client-hostname "mythbox3";
}
```

Here is the process still being displayed in ps:

```
root 4356 0.0 0.1 3316 1060 ?? Is 6Jun10 0:00.02 /usr/local/sbin/dhcreleases -l /var/dhcpd/var/db/dhcpd.leases -d adamsnet -p /var/run/dnsmasq.p
```

Sadly I think we may need to reopen this problem for feedback :(.