

pfSense - Bug #837

dhcpleases still not starting at boot time

08/22/2010 01:22 PM - Marcus Brown

Status:	Resolved	Start date:	08/22/2010
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.0	Affected Architecture:	
Affected Version:	2.0		

Description

We have a problem with the order of operations in the rc.bootup script with respect to getting the dhcpleases program started.

From my system log on NanoBSD snapshot from Aug 22.

```
Aug 22 23:09:43 dhcpleases: lease file needs to exist before starting dhcpleases
```

```
Aug 22 16:09:44 php: : The command '/usr/local/sbin/dhcpleases -l /var/dhcpd/var/db/dhcpd.leases -d home -p /var/run/dnsmasq.pid -h /var/etc/hosts' returned exit code '1', the output was 'lease file needs to exist before starting dhcpleases: No such file or directory'
```

```
Aug 22 23:09:44 dnsmasq31344: started, version 2.55 cachesize 10000
```

```
Aug 22 23:09:44 dnsmasq31344: compile time options: no-IPv6  
GNU-getopt no-DBus I18N DHCP TFTP
```

```
Aug 22 23:09:48 dhcpd: Internet Systems Consortium DHCP Server V3.0.7
```

```
Aug 22 23:09:48 dhcpd: Copyright 2004-2008 Internet Systems Consortium.
```

```
Aug 22 23:09:48 dhcpd: All rights reserved.
```

```
Aug 22 23:09:48 dhcpd: For info, please visit http://www.isc.org/sw/dhcp/
```

*

the rc.bootup file calls system_hosts_generate() (which calls the dhcpleases program) at line 202 and 229 of the rc.bootup file

```
/* re-make hosts file after configuring interfaces */  
system_hosts_generate();
```

but the DHCP service is started at line 338

```
/* start DHCP service */  
services_dhcpd_configure();
```

So, the dhcpleases program always fails to start at bootup because the dhcp.leases file doesn't exist yet. I don't want to mess with the bootup procedure because I don't feel that I know the considerations and consequences of the booting order of services.

I do know that at least one user has requested that the DHCP service be started earlier in the bootup process, and I think that's a good idea too.

Is there a good reason it is called near the end of the boot process?

However, we do need to do something different to get the dhcpleases program started. Maybe the simplest thing to do is break the dhcpleases start code out of the system_hosts_generate() into its own function so it can be called in rc.bootup after dhcp is started. ???

Associated revisions

Revision 24d619f5 - 08/23/2010 10:47 AM - Ermal Luçi

Fixes #837. Fix the startup of dhcpleases during bootup. Also start the dhcpd service earlier there is not reason no to!

History

#1 - 08/22/2010 04:17 PM - Chris Buechler

- Target version set to 2.0

- Affected Version set to 2.0

#2 - 08/23/2010 08:55 AM - Ermal Luçi

- Status changed from New to Feedback

- % Done changed from 0 to 100

Applied in changeset [24d619f5b696914e6b793bbf3c84b25131066b7b](#).

#3 - 08/23/2010 12:27 PM - Marcus Brown

I've updated my testing box with these changes, and I still don't see dhcpleases starting. There's no error now, so that's good. I put some logging statements in the code, and it appears that it doesn't get past the `if(isset($config['dnsmasq']['regdhcp']))` check. I can't understand why.

In addition, I discovered that the `services_dnsmasq_configure()` function (called in `rc.bootup`) calls the `system_hosts_generate` function, so there's no need to break dhcpleases into a separate function and call it from `rc.bootup` separately.

from `rc.bootup`:

```
/* start DHCP service */
services_dhcpd_configure();
```

```
/* start dnsmasq service */
services_dnsmasq_configure();
```

#4 - 08/24/2010 06:17 AM - Marcus Brown

Okay, works now with changes I just committed.

#5 - 08/24/2010 06:46 AM - Marcus Brown

Okay, it starts at boot time and populates the `/var/etc/hosts` files with local host names properly. e.g. . . .

```
[2.0-BETA4][root@pfsense.home]/root(2): cat /var/etc/hosts
127.0.0.1    localhost localhost.home
192.168.5.1  pfsense.home pfsense
192.168.5.236 MiPod.home MiPod          # dynamic entry from dhcpd.leases
192.168.5.235 mmac.home mmac           # dynamic entry from dhcpd.leases
192.168.5.239 iPhone.home -iPhone        # dynamic entry from dhcpd.leases
192.168.5.238 DiskStation.home DiskStation      # dynamic entry from dhcpd.leases
192.168.5.231 amac.home amac          # dynamic entry from dhcpd.leases
192.168.5.232 DNAS.home DNAS          # dynamic entry from dhcpd.leases
```

However, if you go to Services -> DNS Forwarder and Save again you get this. Not really sure if this is a serious bug or not. Just FYI.

```
[2.0-BETA4][root@pfsense.home]/root(3): cat /var/etc/hosts
127.0.0.1    localhost localhost.home
```

```
192.168.5.1 pfsense.home pfsense
192.168.5.236 MiPod.home MiPod # dynamic entry from dhcpd.leases
192.168.5.235 mmac.home mmac # dynamic entry from dhcpd.leases
192.168.5.239 iPhone.home iPhone # dynamic entry from dhcpd.leases
192.168.5.238 DiskStation.home DiskStation # dynamic entry from dhcpd.leases
192.168.5.231 amac.home amac # dynamic entry from dhcpd.leases
192.168.5.232 DNAS.home DNAS # dynamic entry from dhcpd.leases
192.168.5.235 mmac.home mmac # dynamic entry from dhcpd.leases
192.168.5.239 iPhone.home iPhone # dynamic entry from dhcpd.leases
192.168.5.238 DiskStation.home DiskStation # dynamic entry from dhcpd.leases
192.168.5.231 amac.home amac # dynamic entry from dhcpd.leases
192.168.5.236 MiPod.home MiPod # dynamic entry from dhcpd.leases
192.168.5.232 DNAS.home DNAS # dynamic entry from dhcpd.leases
[2.0-BETA4][root@pfsense.home]/root(4):
```

#6 - 08/24/2010 11:30 AM - Ermal Luçi

I would not consider it critical because behaviour is the same.
that is expected on restart.

#7 - 09/02/2010 09:58 AM - Marcus Brown

This is resolved.

#8 - 09/02/2010 04:44 PM - Chris Buechler

- *Status changed from Feedback to Resolved*