

pfSense - Bug #4936

dhcpd sets wrong permissions on leases files

08/14/2015 06:51 AM - Stefan Tollkühn

Status:	Resolved	Start date:	08/14/2015
Priority:	Normal	Due date:	
Assignee:	Chris Buechler	% Done:	0%
Category:	DHCP Server	Estimated time:	0.00 hour
Target version:	2.3	Affected Architecture:	All
Affected Version:	All		

Description

Hi,

I hope this is not a duplicate, at least I didn't find an issue which matches our problem.

We upgraded our pfSense instance from 2.1.5 to 2.2.4. Everytime I change something on our dhcp service apply those changes or just restart the dhcp services, the leases files gets the wrong permissions, which leads into "no free leases" error in the logs. We do only use IPv4.

This is what the permission look like:

```
[2.2.4-RELEASE][admin@ro0001.local]/var/dhcpd/var/db: ls -al
total 8
drwxr-xr-x 2 dhcpd _dhcp 512 Aug 14 12:51 .
drwxr-xr-x 4 dhcpd _dhcp 512 Jan 12 2015 ..
-rw-r--r-- 1 root _dhcp 670 Aug 14 12:51 dhcpd.leases
-rw-r--r-- 1 dhcpd _dhcp 670 Aug 14 12:48 dhcpd.leases~
-rw-r--r-- 1 dhcpd _dhcp 0 Jan 12 2015 dhcpd6.leases
```

and this is what it should look like (I checked this on another pfSense instance, which was setup from scratch):

```
[2.2.4-RELEASE][admin@ro0201.local]/root: ls -lah /var/dhcpd/var/db/
total 16
drwxr-xr-x 2 dhcpd _dhcp 512B Aug 14 11:50 .
drwxr-xr-x 4 dhcpd _dhcp 512B May 10 2014 ..
-rw-r--r-- 1 dhcpd _dhcp 3.0K Aug 14 11:50 dhcpd.leases
-rw-r--r-- 1 root _dhcp 3.0K Aug 14 11:50 dhcpd.leases~
-rw-r--r-- 1 dhcpd _dhcp 0B May 10 2014 dhcpd6.leases
```

Notice the ownership of the *dhcpd.leases* file.

Any hints on how to solve this issue are highly appreciated.

Thanks in advance

Stefan

History

#1 - 09/03/2015 11:39 PM - Chris Buechler

- Status changed from New to Feedback

- Affected Version deleted (2.2.4)

Our code doesn't set permissions on dhcpd.leases anywhere I see. I can't find any system that has it wrong, and a huge number of people would be screaming if the DHCP server didn't work at all (which would be the end result there). Even rare edge cases would have popped up multiple times by now.

you have something non-stock on there?

#2 - 11/08/2015 11:01 AM - James Brechtel

Chris Buechler wrote:

Our code doesn't set permissions on dhcpd.leases anywhere I see. I can't find any system that has it wrong, and a huge number of people would be screaming if the DHCP server didn't work at all (which would be the end result there). Even rare edge cases would have popped up multiple times by now.

you have something non-stock on there?

Hmm, I just ran into this on a fresh install of 2.2.5-RELEASE. Out of the box dhcpd.leases is owned by root and I'm getting "no free leases" in the DHCPD logs.

chowning the file and restarting the dhcpd server results in the file being owned by root again.

Nothing non-stock. I used the latest live-cd/installer ISO and chose quick install then just configured subnets, hostnames, dns.

```
[2.2.5-RELEASE] [admin@tamika.sodosopa] /var/dhcpd/var/db: ls -latrh
total 20
-rw-r--r-- 1 dhcpd _dhcp      0B Nov  8 11:32 dhcpd6.leases~
drwxr-xr-x 4 dhcpd _dhcp    512B Nov  8 11:32 ..
-rw-r--r-- 1 dhcpd _dhcp    189B Nov  8 11:34 dhcpd6.leases
-rw-r--r-- 1 dhcpd _dhcp    189B Nov  8 11:58 dhcpd.leases~
-rw-r--r-- 1 root  _dhcp    189B Nov  8 12:04 dhcpd.leases
drwxr-xr-x 2 dhcpd _dhcp    512B Nov  8 12:04 .
```

```
Nov 8 12:04:27    pfSense dhcpd: exiting.
Nov 8 17:04:40    pfSense dhcpd: DHCPDISCOVER from 4c:34:88:85:33:f6 via em0: network 192.168.10.0/24: no free leases
Nov 8 17:04:44    pfSense dhcpd: DHCPDISCOVER from 40:b8:37:bc:bd:91 via em0: network 192.168.10.0/24: no free leases
```

#3 - 01/19/2016 10:42 PM - Chris Buechler

- Subject changed from *pfSense 2.2.4 after update dhcpd sets wrong permissions on leases files* to *dhcpd sets wrong permissions on leases files*
- Assignee set to *Chris Buechler*
- Target version set to *2.3*
- Affected Architecture changed from *amd64* to *All*

seems this is some unusual edge case from a recent change in dhcpd. But now I'm seeing it on 2.3 systems that have no problems handing out leases, updating their leases file and otherwise work just fine. Adding a `chown dhcpd` after where we touch `dhcpd.leases` if it doesn't exist doesn't change anything, as soon as dhcpd starts the permissions on `dhcpd.leases` go back to `root:_dhcpd`.

2.3 has the same dhcpd version as 2.2.6 though. Unless this also stopped in 2.2.6, there is probably some issue here.

Anyone still replicate this on 2.2.6?

#4 - 01/21/2016 06:50 AM - Jorge Eduardo Birck

Same error when upgrade from 2.2.2 i386 to 2.2.6 AMD64:

network 10.0.100.0/22: no free leases

I changed the LAN to 10.0.100.254/21 for more leases but dhcpd output 10.0.100.0/22 @ log.

#5 - 02/05/2016 01:17 AM - Chris Buechler

We're now on dhcpd 4.3. This is an issue in dhcpd, so may be fixed. I don't have a replicable test case.

#6 - 02/16/2016 04:57 PM - sebastian nielsen

- *File issue_fixed.png added*

You can set this to fixed.

#7 - 02/16/2016 05:05 PM - sebastian nielsen

Forgot to say that the screenshotted machine is running 2.2.6 if you want to specify like "fixed in version" or whatever.

#8 - 02/16/2016 05:08 PM - Chris Buechler

sebastian nielsen wrote:

You can set this to fixed.

Did you have a circumstance where this was reliably replicable before, and now isn't? That's a version prior to 2.3 since it has a `System>Firmware` menu item, so wouldn't have the dhcpd 4.3 update that we're hoping fixed whatever edge case happened here on occasion. It's something that happened only rarely.

#9 - 02/17/2016 10:20 AM - sebastian nielsen

aha so this is a intermittent bug?

I have never had this bug, so I thought it was fixed.

#10 - 03/05/2016 09:41 PM - Chris Buechler

- *Status changed from Feedback to Resolved*

It's very intermittent. I believe this was fixed by dhcpd 4.3 upgrade in 2.3, no has seen it happen on 2.3.

#11 - 03/31/2016 08:00 PM - Chris Buechler

- *Affected Version set to All*

Files

issue_fixed.png	57 KB	02/16/2016	sebastian nielsen
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