

## pfSense - Bug #7042

### DHCP client configures wrong address in some circumstances (setfirst support missing from ifconfig)

12/27/2016 03:31 PM - Jim Pingle

<b>Status:</b>	Resolved	<b>Start date:</b>	12/27/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Luiz Souza	<b>% Done:</b>	100%
<b>Category:</b>	Interfaces	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.4.0		
<b>Affected Version:</b>	2.4	<b>Affected Architecture:</b>	All

#### Description

In certain circumstances a DHCP client interface gets configured with an incorrect address. The address that should be the interface address is found to be the broadcast address, and the interface address appears to be bogus along with the subnet mask.

We now know this is the result of the "setfirst" patch being removed. The /usr/local/sbin/pfSense-dhclient-script attempts to execute this line:

```
$IFCONFIG $interface setfirst $new_ip_address
```

Without the "setfirst" patch, that is taken as a hostname, which the client then attempts to resolve via DNS

If the upstream DNS does not properly return NXDOMAIN results, the bogus result is used for the interface IP address and the interface's real address becomes the broadcast address.

If a user's upstream DNS returns proper NXDOMAIN results and not bogus search page servers instead, there is no problem.

I'll push a workaround momentarily which comments out this line until we decide how best to proceed.

#### Associated revisions

##### Revision 378574a3 - 12/27/2016 03:32 PM - Jim Pingle

Disable "setfirst" line in pfSense-dhclient-script for now. Ticket #7042

##### Revision af624840 - 12/29/2016 12:38 PM - Luiz Souza

Instead of ignoring the IP, add it to interface even if we cannot do it with setfirst.

Ticket #7042

##### Revision 9bf81d66 - 12/29/2016 01:37 PM - Luiz Souza

Revert "Instead of ignoring the IP, add it to interface even if we cannot do it with setfirst."

This reverts commit af6248407bae4d476b483dcb3a388744fb74b465.

Not necessary at all.

Pointy hat to: me

Ticket #7042

**Revision e9de838d - 12/29/2016 04:44 PM - Luiz Souza**

Implement a different method to obtain the 'main' IP (v4) for the interface.

The last interface IP is always saved in /var/db/\${interface}\_ip. Use that file, if it exist, to find the main interface IP.

The file is created by the same process and function that call 'ifconfig setfirst', so the presence of that file should produce a very similar behavior.

If the file does not exist, fallback to previous behavior (return the first IPv4 found on interface).

Ticket #7042

**Revision da4d341e - 12/29/2016 08:55 PM - Luiz Souza**

Remove the now unnecessary and commented code.

Ticket #7042

**History**

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**#1 - 12/27/2016 03:44 PM - Jim Pingle**

Simplest way to reproduce this is to use a DNS Resolver override for "setfirst" and the firewall's domain, set to an obviously wrong address. Then all you have to do is unplug/replug the WAN cable, or reboot, and check the console menu or ifconfig output. It's easier to hit on SG-1000 for some reason, perhaps due to its lower speed.

**#2 - 12/27/2016 04:04 PM - Jim Pingle**

- Assignee set to Luiz Souza

**#3 - 12/29/2016 04:59 PM - Luiz Souza**

- Status changed from New to Feedback

- % Done changed from 0 to 100

**#4 - 01/13/2017 09:18 AM - Jim Pingle**

- Status changed from Feedback to Resolved

Seems to be solid all-around.