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Insights

Juiu Shon More -

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# How do I include lines in resolv.conf that won't get lost on reboot?

I have finally migrated to 12.04 from 7.10. I have one last part to complete but I am stumped. I am using Puppet on each server, and in the past I have included a nameserver address and a search domain name for the puppetmaster in resolv.conf.

search puppetmaster.com nameserver 192.168.1.XXX

In 12.04 resolv.conf gets overwritten when rebooted. I cannot use a static IP for these, so using the /etc/network/interfaces to help me out is a nill point.

```
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
# DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 127.0.0.1
```

Is there a way to get resolvconf to handle this either in the head, tail or base? If there is, are there any examples I can use to tweak on my

Any help is much appreciated.

resolv conf

edited Apr 19 '13 at 14:35 idthood 9.490 39 61 asked Jun 28 '12 at 13:54



### 16 Answers

It's probably better to have your DNS server be able to resolve 'puppet' to the right address, and either to have your DHCP server hand out the DNS nameserver address and search list or else (if you have static IP addresses) to have something like the following in /etc/network/interfaces.

```
iface eth0 inet statio
   address 192.168.3.3
   netmask 255.255.255.0
   gateway 192.168.3.1
   dns-search example.com
   dns-nameservers 192.168.3.45 192.168.8.10
```

But if you do want to do it via the resolvconf configuration files you will want to edit /etc/resolvconf/resolv.conf.d/base . In that file, put in your info as you would in resolv.conf.

nameserver 192.168.1.XXX

Then tell resolvconf to regenerate resolv.conf.

sudo resolvconf -u





- 13 Although this answer has votes, and the first part is more or less correct, the second part of the answer is incorrect. (1) Do not put a "search" line in /etc/resolv.conf/resolv.conf.d/head. If you put a "search" line there, this line will be ignored if resolv.conf includes a "search" line in the dynamic part of the resolv.conf file. The glibc resolver ignores all but the last "search" or "domain" line. See resolv.conf(5). (2) If the resolvconf configuration is changed you should not restart the resolvconf job but just run an update, "resolvconf -u". - jdthood Oct 27 '12 at
- I've removed the line. The other option would be to use tail instead of head. tgm4883 Oct 30 '12 at 11:44
- base, head or tail (as of 12.04) are all being rewritten just like resolv.conf, so I can confirm that @jdthood comment is true. So, complete answer would say do not edit any of resolv.conf files, and just run: sudo /etc/init.d/networking restart As a matter of fact, that will write interface changes to resolv.conf. – tishma Nov 1 '12 at 11:10
- @tishma: Hi. First, to prevent any misunderstanding: nothing writes to the base, head or tail files. Nothing writes to any files in /etc/resolv.conf/resolv.conf.d/ at run time. These files are read by resolv.conf which assembles their content into the file that it writes --- /run/resolvconf/resolv.conf --- to which the symlink /etc/resolv.conf points

Second, concerning what to do after dns-\* options in /etc/network/interfaces are changed. Do *not* run "/etc/init.d/networking restart"; that is now deprecated. Instead ifdown the interface in question and ifup it again. – jdthood Nov 1 '12 at 13:18

3 In 14.04 this answer did nothing for me. – Jay Sullivan Jun 30 '14 at 0:55

I think the answer is check your /etc/dhcp/dhclient.conf , i.e. don't request dns-nameservers from your **dhcp** client.

Then update your /etc/network/interfaces

auto eth0 iface eth0 inet dhcp dns-search google.com dns-nameservers dnsserverip

Then your resolv.conf will get auto configured the way you want it.

Add to the dns-search and then run a /etc/init.d/networking restart (even though this script's deprecated it still works).



answered Nov 26 '12 at 1:58

Jamin

411 4 3

- dhclient rules over any resolvconf settings so this should be the best answer. Alex R Mar 4 '13 at 9:35
- /etc/init.d/networking restart did not work on my machine, but sudo ifdown -a and then sudo ifup -a did. (Also, it took me a bit to realize I had to replace dnsserverip with something like 8.8.8.8; I feel a bit silly.) - Jason Gross Dec 9 '13 at 5:21

try systemctl restart networking.service - Pavel Sayekat Dec 8 '17 at 14:42

This is likely caused by DHCP configuration when you first installed Ubuntu. Try this 3-step process to handle this auto configuration issue.

#### **First**

Edit your interface configuration, which is located in: /etc/network/interfaces

Add this line below iface lo inet loopback:

dns-nameservers yourdns youraltdns

As an example for Google DNS, you may want to use this:

dns-nameservers 8.8.8.8 8.8.4.4

## Second

Edit your DHCP configuration file, located at:

/etc/dhcp/dhclient.conf

Mark the syntax as a comment using # on every line or simply remove every request nameserver. In 16.04, you may not be required to make any changes here.

## **Third**

Restart your networking by using this command :

/etc/init.d/networking restart

In 16.04:

sudo ifdown -a sudo ifup -a

edited May 1 '17 at 0:26

Christopher Kyle Horton
9,976 12 65 135

answered Jun 20 '13 at 1:50

astrajingga
198 2 10

3 /etc/init.d/networking restart did not work on my machine, but sudo ifdown -a and then sudo ifup -a did. - Jason Gross Dec 9 '13 at 5:22

This is simple and it works even though it is a bit hacky! Problem with things like ubuntu is having 1000 ways to do one thing! – Willa O Ng'wana Jul 18 '16 at 12:52

And then you can check that /etc/resolv.conf contains those 2 new DNS entries on the first useful lines. – ROMANIA\_engineer Dec 20 '16 at 16:31

Please look at resolvconf 's man page. You can force inclusion of certain DNS settings by

creating e.g. /etc/resolvconf/resolv.conf.d/base :

/etc/resolvconf/resolv.conf.d/base
 File containing basic resolver information. The lines in this
 file are included in the resolver configuration file even when
 no interfaces are configured.

There are other special files (head and tail), these may help you achieve what you want.

answered Sep 4 '12 at 14:26

roadmr
25k 5 59 75

You can add lines to /etc/resolv.conf/resolv.conf.d/base, but because every nameserver is accessible via an interface and is accessible only when that interface is up, it is best to associate the nameserver information with that interface. If the interface is configured with ifup, this means: put the info on "dns-search" and "dns-nameservers" lines in /etc/network/interfaces stanzas. If the interface is configured via DHCP then this means: configure the DHCP server to supply search names and nameserver addresses to clients. Etc. Use the "base" file only as a temporary hack or as a last resort. – jdthood Oct 27 '12 at 18:56

For me, the above answers were inadequate for the following reasons:

- I'm not using resolvconf, just plain /etc/resolv.conf.
- Using chattr +i to lock down resolv.conf seems too hacky. I need Puppet to be free to make changes when necessary.
- AFAIK, editing /etc/network/interfaces doesn't prevent resolv.conf from being overwritten; it simply specifies the name servers that should be written. For me, specifying the name servers wasn't the point. I'm trying to set options timeout:1 and options attempts:1 in my resolv.conf file.

The best solution I found overrides the default behavior of dhclient using its documented hooks

Create a new file at /etc/dhcp/dhclient-enter-hooks.d/nodnsupdate with the following contents:

```
#!/bin/sh
make_resolv_conf() {
    :
}
```

Then make the file executable:

chmod +x /etc/dhcp/dhclient-enter-hooks.d/nodnsupdate

Now when dhclient runs -- either on reboot or when you manually run sudo ifdown -a; sudo ifup -a -- it loads this script nodnsupdate. This script overrides an internal function called make\_resolv\_conf() that would normally overwrite resolv\_conf and instead does nothing.

This worked for me on Ubuntu 12.04.

answered Mar 5 '15 at 22:12
richardkmiller
141 3

- Works fine on Debian 8. Elegant solution! Artur Bodera Oct 15 '15 at 7:19
- just for completeness: manpage dhclient-script holds the information about the DHCP client network configuration script mentioned an the answer above. — hecke Feb 5 '16 at 19:36

This didn't work on 16.04, I added things to /etc/network/interfaces.d too, with no effect, added an empty override of make\_resolv\_conf recommended here, no effect.... but did not modify /etc/dhcp/dhclient.conf -- do I really need to modify a static config file to fix this? - silverjam Jan 30 '17 at 20:57

add your nameserver to file /etc/resolvconf/resolv.conf.d/head. The file contains message that you had received:

that file should looks like this after adding 8.8.8.8

```
root@hvnatvcc: ~ # cat /etc/resolvconf/resolv.conf.d/head
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
# DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 8.8.8.8
```

answered Oct 23 '12 at 10:43



- 3 Adding lines to /etc/resolv.conf.d/head is a poor solution, even worse than adding lines to /etc/resolv.conf.d/hase. The correct solution for interfaces configured using ifup is to add "dns-search" and "dns-nameservers" lines to stanzas in /etc/network/interfaces. See also my comments on the other answers. idthood Oct 27 '12 at 19:01
- 3 It's the only thing that actually worked for me... and it's seems hard to figure why none of the "correct" solutions are working. – silverjam Jan 30 '17 at 20:54

This may just be some weird quirk in my machine, but someone else might have the same corner case.

I tried numerous ways to get my ISP nameservers included in /etc/resolv.conf with no success:

- I included them in /etc/network/interfaces and restarted networking. They didn't show up in /etc/resolv.conf.
- I put them in /etc/resolv.conf explicitly, but of course they got overwritten. They did show up in /run/resolvconf/interface/eth0.inet, but never made it to /etc/resolv.conf.
- I tried configuring resolvconf for dynamic updates. No change

Finally I read somewhere that if the local machine (127.0.0.1) shows up in /etc/resolv.conf any other nameservers are not included.

In desperation I edited <code>/run/resolvconf/interface/lo.named</code> , deleted the only line in it ( <code>nameserver 127.0.0.1</code> ) and <code>restarted</code>: <code>ifdown eth0 &</code> if up eth0 .

/etc/resolv.conf then included my ISP nameservers for the first time! I ran service network—manager restart to see if it was stable and /etc/resolv.conf still includes my ISP nameservers. Rebooted just to make sure and it's still there but
/run/resolv.conf/interface/lo.named\_got\_reset\_to: nameserver\_127.0.0.1.

Curiously restarting networking still works: /etc/resolv.conf still contains my ISP nameservers. I can't explain this (can someone?) but this might help someone stuck in the same spot.



answered Jun 26 '14 at 5:18



203k 77 513 726

This is probably caused by dnsmasq . You can simply remove it using apt-get remove dnsmasq or update config in /etc/dnsmasq.conf . – Tombart Jan 8 '16 at 22:44

The other solutions did not work for me on my Fedora 20 system. My particular problem was that the "search" line in /etc/resolv.conf was being overwritten. Here is what fixed it. (This assumes that NetworkManager is producing the line search rn.yourcompany.com and you want to have it be search rn.yourcompany.com yourcompany.com intnet.yourcompany.com:

1.Use the "ifconfig" command to find out what interface is of interest:

```
$ ifconfig
:
:
```

em2: <this was the one which was connected>

2. Become root and change to the system configuration network devices directory:

```
$ sudo su -[sudo]
password for youruser:
# cd /etc/sysconfig/networking/devices`
```

 Use your favorite available editor to add a Domain line with the additional domains to search:

DOMAIN="yourcompany.com intnet.yourcompany.com"

Save, logout, and log back in. NetworkManager should now have the line in \etc\resolve.conf:

 ${\tt search\ rn.yourcompany.com\ yourcompany.com\ intnet.yourcompany.com}$ 

answered Aug 29 '14 at 14:54

CBI
11 1

Not to rain on your parade, but this is Ask Ubuntu, and so Fedora is off-topic. – Flimm Dec 3 '14 at 0:05

As many other answers state this has to do with resolvconf being installed in your system.

So the best way to keep something in resolv.conf that won't get lost on reboot is to include it in resolvconf configuration files that are in:

/etc/resolvconf/resolv.conf.d/

In there go for the head file. Whatever you put there will be written at the top of /etc/resolv.conf

So everything will go to something like this:

- # echo nameserver 8.8.8.8 >> /etc/resolvconf/resolv.conf.d/head # resolvconf --enable-updates # resolvconf -u

edited Mar 28 '17 at 21:00

answered Oct 17 '16 at 13:59 Juan Javier Triff Cabanas

add on the last line eg:

nameserver 8.8.8.8

Open up a terminal and type

sudo chattr +i /etc/resolv.conf

the +i takes care that the file wont be reseted on a boot.

To undo the above

sudo chattr -i /etc/resolv.conf

For more

man chattr

answered Feb 23 '13 at 17:42 tanmay.01 183 1 2 11

If you are using DHCP, edit /etc/dhcp/dhclient.conf to add additional DNS servers:

prepend domain-name-servers 12.34.56.78, 12.34.56.79;

The DHCP client overwrites the dns-nameservers in etc/network/interfaces and I think in /etc/resolvconf/resolv.conf.d/base too.

This worked for me in Ubuntu server 14.04.3.

See the Debian NetworkConfiguration Wiki for details.

edited Oct 15 '15 at 17:09

answered Oct 14 '15 at 13:38 Kevin S. Miller

Add entries in /etc/resolvconf/resolv.conf.d/head

sudo echo "search puppetmaster.com" >> /etc/resolvconf/resolv.conf.d/head sudo echo "nameserver 192.168.1.XXX" >> /etc/resolvconf/resolv.conf.d/head

and run following command

sudo resolvconf -u

edited May 17 '16 at 20:28 238 403 answered May 17 '16 at 13:22

46

I found this the simplest fix. If you have resolv.conf and resolvconf files they will step on one another. You need to remove the resolv.conf file that get an overwrite every time you do a reboot. Put the nameserver 8.8.8.8 8.8.4.4 at the bottom of the resolvconf file and then run the command sudo rm /etc/resolv.conf to get rid of the file. Then do a restart and everything will work.

answered Oct 19 '16 at 12:09



Irv 11

### **English translation:**

My solved. "only 12.4"

I noticed that if you add the dns-nameserver in interfaces that do not take the name resolution server Thanks to the help found here have solved the problem.

http://manpages.ubuntu.com/manpages/lucid/man8/resolvconf.8.html

To make resolv.conf not change when we edit manually do this in the terminal:

sudo resolvconf -disable-updates

after:

sudo resolvconf -a eth0 # or your network Interfas

then manually edit /run/resolvconf/resolv.conf

adding a maximum of two DNS servers. thanks P.S. not forget to restart:

sudo /etc/init.d/networking restart

#### Original text:

solo ubuntu 12.4

Mi solucion.

He visto que si agregas los dns-nameserver en interfaces esta no toma los server de resolucion de nombres

Gracias a la ayuda encontrada en esta pagina he resuelto el problema.

http://manpages.ubuntu.com/manpages/lucid/man8/resolvconf.8.html

Para hacer que resolv.conf no cambie cuando la editamos manualmente hacemos esto en la terminal:

sudo resolvconf -disable-updates

despues:

sudo resolvconf -a eth0 # o tu interfas de red

luego editamos manualmente /run/resolvconf/resolv.conf

agregando un maximo de 2 DNS servers. saludos P.D. no olvidar reiniciar:

sudo /etc/init.d/networking restart



answered Sep 4 '12 at 14:16



- This is very much *not* the right way to solve the problem. jdthood Oct 27 '12 at 18:57
- 1 @jdthood as someone browsing this can you elaborate WHY this is not the right way? It seems logical to me, but I do not know anything about this. – ErikPerik Mar 25 '14 at 6:09

### Just put a

dns-search google.com && dns-nameservers (sample: 8.8.8.8)

command on your  $\ensuremath{\text{/\text{interfaces}}}$  configuration. then restart your network.

it should work.



answered Feb 6 '15 at 9:15

tesar

That configuration is declared in /etc/default/bind9

RESOLVCONF=no|yes

**no** = don't apply the condition in the init.d bind9

yes, or other value = override resolv.conf

This problem accures when you install bind9 and don't care about check all confs.



answered Apr 9 '13 at 9:40

