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DNS server settings ignored for resolving lan hosts. #6

⊙ Closed   **Zixim** opened this issue on Oct 9, 2020 · 6 comments · Fixed by #8

Labels   **upstream**

Zixim commented on Oct 9, 2020

HassOS release with the issue:

- Frontend -> Configuration -> Info

```
arch      x86_64
chassis vm
dev       false
docker   true
docker_version  19.03.11
hassio   true
host_os HassOS 4.13
installation_type        Home Assistant OS
os_name Linux
os_version      5.4.63
python_version  3.8.5
supervisor      247
timezone        Europe/Brussels
version 0.115.6
virtualenv      false
```

- Or use this command: hass --version

```
➜  ~ hass --version
zsh: command not found: hass
```

Journal logs:

```
Oct 09 08:11:07 homeassistant 85843c26f66f[386]: [INFO] 127.0.0.1:35481 - 43627 "A IN influx.local. udp 30 false 512" NXDOMAIN qr,rd,ra 105 0.090119317s
Oct 09 08:11:07 homeassistant 85843c26f66f[386]: [INFO] 172.30.32.1:48509 - 43627 "A IN influx.local. udp 30 false 512" NXDOMAIN qr,rd,ra 105 0.091012247s
Oct 09 08:11:08 homeassistant 85843c26f66f[386]: [INFO] 127.0.0.1:36749 - 57069 "A IN syncthingx.local. udp 34 false 512" NXDOMAIN qr,rd,ra 109 0.024540873s
Oct 09 08:11:08 homeassistant 85843c26f66f[386]: [INFO] 172.30.32.1:38087 - 57069 "A IN syncthingx.local. udp 34 false 512" NXDOMAIN qr,rd,ra 109 0.025081218s
Oct 09 08:11:08 homeassistant 85843c26f66f[386]: [INFO] 127.0.0.1:35481 - 57327 "AAAA IN syncthingx.local. udp 34 false 512" NXDOMAIN qr,rd,ra 109 0.096807474s
Oct 09 08:11:08 homeassistant 85843c26f66f[386]: [INFO] 172.30.32.1:38087 - 57327 "AAAA IN syncthingx.local. udp 34 false 512" NXDOMAIN qr,rd,ra 109 0.097437652s
```

Description of problem:
TLDR : After some time (X hours) , HA stops using the user-defined DNS server, thus no longer being able to resolve hosts on the LAN.

HA is configured to use a local DNS server :

```
➜  ~ ha dns info
host: 172.30.32.3
locals:
- dns://192.168.11.2
servers:
- dns://192.168.11.2
version: "9"
version_latest: "9"
➜  ~
```

Trying to resolve a local host fails :

```
➜  ~ nslookup influx.local
Server:         172.30.32.3
Address:        172.30.32.3#53

** server can't find influx.local: NXDOMAIN
```

On the DNS server side, the logs show no request arriving for that lookup.

Forcing the lookup to use the specific DNS server works :

```
➜  ~ nslookup influx.local 192.168.11.2
Server:         192.168.11.2
Address:        192.168.11.2#53

Name:   influx.local
Address: 192.168.11.134
```

And in this case, the DNS logging indeed confirms name resolution :

```
Oct  9 08:21:20 dnsmasq[344]: query[A] influx.local from 192.168.11.5
Oct  9 08:21:20 dnsmasq[344]: query[AAAA] influx.local from 192.168.11.5
```

Doing the same on the HassOS host works without ant kind of issue :

```
# nslookup influx.local
Server:         192.168.11.2
Address:        192.168.11.2:53

Name:   influx.local
Address: 192.168.11.134

Non-authoritative answer:

#
```

Additional info :

- Doing a `ha dns restart` solves the issue, for a while (X hours), but it always returns to being broken.
- I migrated to HassOS a month or 2 ago, previously been running Hassio for a few years.
- In a Hassio setup, this issue *never* happened.
- HassOS based setup has had this from my first install.
- Pleading for help on Discord yielded very little response, no useful response at all.
- Others are having the same issue, and are also being ignored : https://community.home-assistant.io/t/local-dns/178108

✏️ 👤 **Zixim** changed the title ~~DNS server settings ignored for lan hosts~~ DNS server settings ignored for resolving lan hosts. on Oct 9, 2020

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agners commented on Oct 11, 2020   `Contributor`

As discussed on Discord, I looked a bit deeper into the Core DNS setup to try to understand what could go wrong.

It really seems as if Core DNS suddenly stops query the local DNS server (in which case this bug probably belongs to a different place, but that is not certain at this point).

One theory I had was that the forward policy to the local server somehow got stuck on the fallback server. However, it seems that the `forward` plugin with `policy sequential` should "reset" itself after every query. I also tested this locally: Disabling the DNS on my router starts to make use of the external DNS, but then re-enabling it immediately moves starts to query the internal DNS again. Could still be a special situation in your case, but in general it seems to work as intended.

Also the `mdns` plugin used should actually still forward queries to your local DNS server even when using `.local` domains.

So I am a bit out of idea what could go wrong in your setup... :-(

Zixim commented on Oct 11, 2020 • edited ▼   `Author`

Thing is, I'm not alone with this. Even it it probably is a margin case.

After our talk on Discord, I have added my router (192.168.11.1) as extra dns server.

```
  ➜  /config ha dns info
host: 172.30.32.3
locals:
- dns://192.168.11.2
servers:
- dns://192.168.11.2
- dns://192.168.11.1
version: "9"
version_latest: "9"
```

The router has ONLY 192.168.11.2 as its dns server.
It's ugly AF, but if it works...
I'll know more in 12 hours or so.

Zixim commented on Oct 12, 2020   `Author`

it didn't work ...
the above config, after 14 hours, now yields this :

```
  ➜  /config nslookup influx.local
Server:         172.30.32.3
Address:        172.30.32.3#53

** server can't find influx.local: NXDOMAIN
```

and :

```
  ➜  /config nslookup influx.local 192.168.11.2
Server:         192.168.11.2
Address:        192.168.11.2#53

Name:   influx.local
Address: 192.168.11.134
```

and :

```
  ➜  /config nslookup influx.local 192.168.11.1
Server:         192.168.11.1
Address:        192.168.11.1#53

Name:   influx.local
Address: 192.168.11.134
```

→ **pvizeli** transferred this issue from home-assistant/operating-system on Oct 12, 2020

pvizeli commented on Oct 12, 2020   Member

Will be fix with next CoreDNS update

🏷 **pvizeli** added the **upstream** label on Oct 12, 2020

↗ **pvizeli** mentioned this issue on Oct 22, 2020

Update coredns v1.8.0 #8
🔀 Merged

pvizeli closed this as completed in #8 on Oct 22, 2020

Zixim commented on Nov 14, 2020   Author

sorry to bother you, **@pvizeli** , is this not yet included in HassOS 4.16 ?
I'm still seeing the original symptoms ...

pvizeli commented on Nov 14, 2020   Member

You will all time see that because of health check. Please use Home Assistant Container if you have an issue with that

🏠 **home-assistant** locked as **resolved** and limited conversation to collaborators on Nov 14, 2020

Assignees

No one assigned

Labels

upstream

Projects

None yet

Milestone

No milestone

Development

Successfully merging a pull request may close this issue.

🔀 **Update coredns v1.8.0**
  home-assistant/plugin-dns

3 participants