

golang / go


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net: Support the /etc/resolver DNS resolution configuration hierarchy on OS X #12524

New issue

OpenRotonen opened this issue on Sep 7, 2015 · 11 comments


Rotonen commented on Sep 7, 2015

<https://developer.apple.com/library/mac/documentation/Darwin/Reference/ManPages/man5/resolver.5.html>

OS X allows you to add TLD specific resolver configurations. Quite popular ones are /etc/resolver/vm for local virtual machines and /etc/resolver/dev for local development purposes.

https://golang.org/src/net/dnsclient_unix.go#L231

Go seems to be hardcoded to only take /etc/resolv.conf into account on Unix platforms.

nodirt commented on Sep 7, 2015Member

I don't think Go-native DNS resolving mechanism is used on Mac.

https://golang.org/src/net/dnsclient_unix.go#L231 is not executed if I run

```
addr, err := net.LookupHost("google.com")
```


on my Mac.

If I enable debugging (`GODEBUG=netdns=2 go run test.go`), the following is printed:


```
go package net: using cgo DNS resolver
go package net: hostLookupOrder(google.com) = cgo
```

which means that OS-native DNS resolving is used.

Can you supply an exact configuration file, Go code, actual and expected output?

titanous commented on Sep 7, 2015Member

@nodirt This is for a binary with cgo off.

davecheney commented on Sep 7, 2015Contributor

If cgo is disabled then the pure go DNS resolver will be used. If you want to use the Mac DNS resolver, please build with cgo.

On Mon, 7 Sep 2015 07:47 Jonathan Rudenberg notifications@github.com wrote:

@nodirt <https://github.com/nodirt> This is for a binary with cgo off.

—

Reply to this email directly or view it on GitHub [#12524 \(comment\)](#).

nodirt commented on Sep 7, 2015

Assignees

No one assigned

Labels

HelpWanted

NeedsInvestigation

OS-Darwin

Projects

None yet

Milestone

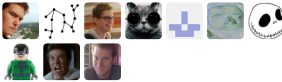
Unplanned

Notifications

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10 participants





Shouldn't be a problem since this is needed only on a dev machine.

Member



On Sun, Sep 6, 2015 at 4:06 PM Dave Cheney notifications@github.com wrote:

If cgo is disabled then the pure go DNS resolver will be used. If you want to use the Mac DNS resolver, please build with cgo.

On Mon, 7 Sep 2015 07:47 Jonathan Rudenberg notifications@github.com wrote:

@nodirt <https://github.com/nodirt> This is for a binary with cgo off.

—
Reply to this email directly or view it on GitHub
[#12524 \(comment\)](#).

—
Reply to this email directly or view it on GitHub
[#12524 \(comment\)](#).



titanous commented on Sep 7, 2015

Member



In this specific case, @Rotonen was using the Flynn binary that we distribute as a compiled artifact, it is compiled without cgo to ease cross-compilation. Just because the user is a developer doesn't mean that they are a Go developer or want to compile the binary for themselves. The only question here is if this feature is out of scope for the pure-Go resolver.



minux commented on Sep 7, 2015

Member



cross compilation with cgo-enabled net package is not that hard.
You can reuse the package contained in binary distribution and force internal linking.



ianlancetaylor changed the title from **Support the /etc/resolver DNS resolution configuration hierarchy on OS X** to **net: Support the /etc/resolver DNS resolution configuration hierarchy on OS X** on Sep 9, 2015



ianlancetaylor commented on Sep 9, 2015

Contributor



I don't see anything wrong with supporting the OS X /etc/resolver directory. That said, my understanding is that the Go DNS resolver does not work well on most OS X machines. That is why it is disabled by default.



ianlancetaylor added this to the **Unplanned** milestone on Sep 9, 2015



ianlancetaylor added the **OS-Darwin** label on Sep 9, 2015



mterrorn commented on Jun 2, 2016



This would be great in all platforms anyway. Is there any disadvantage from supporting this behaviour? It seems that it'd neatly resolve the need to install and configure dnsmasq to provide the simple function of having different resolvers for different TLDs.



This was referenced on Jul 14, 2016

- | | |
|--|--------|
| net: revisit unconditional use of cgo lookups for darwin #16345 | Open |
| Fix DNS resolution issues on Mac OS X when connected to a VPN hashicorp/terraform#5925 | Closed |
| Convex does not respect proxy environment variables. convex/rack#996 | Closed |
| DNS resolution issues when connected to a VPN hashicorp/terraform#3536 | Open |
| Mac OSX resolver domains do not resolve when monkey_patch applied eventlet/eventlet#383 | Open |



jason-riddle commented on Feb 17



i know this issue is quite old but has there been any traction on this?



pantocrator27 commented 4 days ago



any resolution?



bradfitz commented 4 days ago

Owner



Any updates would be posted here. No updates have been posted here.

bradfitz added **HelpWanted** **NeedsInvestigation** labels 4 days ago



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