

using libnet to send ARP request, but arp cache won't update after getting the ARP reply

Asked 14 years, 4 months ago Modified 14 years, 4 months ago

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6



I need to look up MAC address in the local network and I'm using Linux. What I do is send a ARP request with libnet, but after I send 3 requests, the cache still won't update. I use wireshark to catch the packets. From wireshark, I did get 3 ARP replays, after each of my ARP request. Does anyone know how come the ARP cache won't update?

c

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asked Jul 29, 2010 at 5:01



Aitjcize

187 ● 1 ● 8

1 Answer

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The Linux kernel does not accept unsolicited ARP by default. Since the request was sent by your userspace

6

application and not by the kernel, the kernel sees the reply as "unsolicited".



You can change this default in



`/proc/sys/net/ipv4/conf/*/arp_accept` (either on a per-device basis or across all devices).



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answered Jul 29, 2010 at 5:56

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caf

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Thanks for the quick reply!!! Now I see. Still, is there another way to do it other then changing

`/proc/sys/net/ipv4/conf/*/arp_accept`? by `ioctl` ? – [Aitjcize](#) Jul 29, 2010 at 6:26

Why do you need another way? What's wrong with that way? You can use "all" instead of * if you dont know what interface to set it on. – [camh](#) Jul 29, 2010 at 10:18

@Aitjcize: `/proc/sys/` is an interface to `sysctl`, however it is the *preferred* interface on Linux. You can change it programatically with a simple `fopen(); fprintf(); fclose();` sequence. – [caf](#) Jul 29, 2010 at 13:32
