

Re: problems with networking...

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2007-08/msg01237.html>

- *From:* "Michael Hawkins" <cypheros@xxxxxxxx>
 - *Date:* Sun, 19 Aug 2007 20:58:06 -0400
-

#arp -an? (10.11.12.254) at ff:ff:ff:ff:ff:ff on vr0 permanent [ethernet]

thats all. I have cleaned out the arp cache once already, but this came right back. I was curious if there was a way to correct this entry, or something...

On 8/19/07, Bill Moran <wmoran@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

"Michael Hawkins" <cypheros@xxxxxxxx> wrote:

oops, sorry about the -m, lack of sleep and alll....

/etc/rc.conf:

amd_enable="YES"

hostname=[Removed]

ifconfig_vr0="DHCP"

inetd_enable="YES"

rpcbind_enable="YES"

sshd_enable="YES"

usbd_enable="YES"

#netstat -rn

Routing tables

Internet:

Destination Gateway Flags Refs Use Netif Expire

default 10.11.12.254 UGS 0 24 vr0

10.11.12/24 link#1 UC 0 0 vr0

10.11.12.254 ff:ff:ff:ff:ff:ff UHLWb 2 37 vr0

127.0.0.1 127.0.0.1 UH 0 8 lo0

.....for some reason I don't think that MAC addy of all f's is a good thing, but this is the first I've seen of it..

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No, it's not. The output of `arp -an` might be helpful to this, but I suspect you've got an underlying network issue.

Also (for the second time) keep the mailing list in the loop. In particular, I'll be leaving shortly and won't have access to email for several days.

On 8/18/07, Bill Moran <wmoran@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

[Please keep the mailing list in the CC]

"Michael Hawkins" <cypheros@xxxxxxxx> wrote:

```
Certainly. Here it is:
#ifconfig -a
vr0: flags=8843<UP,BROADCAST
,RUNNING,SIMPLEX,MULTICAST> mtu
1500
inet 10.11.12.253 netmask 0xfffff00
broadcast 10.11.12.254
```

That's really strange. Your broadcast address should be 10.11.12.255. It's quite likely that this is part of your problem, but I can't imagine how you could have arrived at this configuration. What is in `/etc/rc.conf`?

```
ether [MAC ADDRESS REMOVED]
media: Ethernet autoselect (100baseTX
<full-duplex>)
statusL active
plip0:
flags=108810<POINTOPOINT,SIMPLEX,MULTICAST,NEEDSGIANT>
mtu
```

1500

```
lo0:
flags=8049<UP,LOOPBACK,RUNNING
,MULTICAST> mtu 16384
inet6 fe80::1%lo0 prefixlen 64 scopeid 0x3
inet6 ::1 prefixlen 128
inet 127.0.0.1 netmask 0xff000000
```

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```
#netstat -m
65/205/270 mbufs in use
(current/cache/total)
64/134/198/25600 mbuf clusters in use
(current/cache/total/max)
0/128 mbuf+clusters out of packet secondary
zone in use
```

(current/cache)

```
0/0/0/0 4k (page size) jumbo clusters in use
```

(current/cache/total/max)

```
0/0/0/0 9k jumbo clusters in use
(current/cache/total/max)0/0/0/0
```

16k

jumbo

```
clusters in use (current/cache/total/max)
144k/319k/463k bytes allocated to network
(current/cache/total)
0/0/0 requests for mbufs denied
(mbufs/clusters/mbuf+clusters)
0/0/0 requests for jumbo clusters denied
(4k/9k/16k)
0/4/6656 sbufs in use (current/peak/max)
0 requests for sbufs denied
0 requests for sbufs delayed
0 requests for I/O initiated by sendfile
0 calls to protocol drain routines
```

That's netstat -rn, not -m. Unfortunately, the -m doesn't tell me what I'm looking for, which is your routing table.

I'm wondering if your ipnat rules are awry. Please provide the ifconfig, routing table, and nat rules from the router machine.

...again, this is straight out of a fresh install (which I did

because I

had

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the exact same problem with the last install).

Well, obviously, you did it the same both times, and are getting the same result.

On 8/18/07, Bill Moran
<wmoran@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote:

"Michael Hawkins" <
cypheros@xxxxxxx>
wrote:

Sorry if this
is sorta
n00bish, but
I have a
problem
that Google

hasn't

answered
for me yet...
I have a
moderately-sized
network
that I am
trying to
run, with

about 70

or

so machines
on it. The
DHCP
server
(running
FreeBSD
6.2, IPv4

address:

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10.11.12.254,
Subnet is
10.11.12.0/24
) acts as a
gateway
server

as

well,

and

has ipnat
running for
traffic
routing.

So far, I
have had no
problems
with ANY
of the
machines
on this

network

connecting,
save
one—my
File server
(running
FreeBSD
6.2 as

well,

IPv4

address:
10.11.12.253).
For some
reason,
whenever I
try to

establish

any

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connection
to ANY
network
address (on
any
protocol), it
will

only

connect to

one address:
10.11.12.252
(and won't
connect to
anything
when

that

machine

is off).
Here is a
ping listing:
#ping
10.11.12.254
PING
10.11.12.254
(10.11.12.254):
56 data
bytes
64 bytes
from
10.11.12.252:
icmp_seq=0
ttl=64
time=0.852
ms

...and it
continues
precisely in
that manner
until I stop
it.

I have tried
re-installing

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the OS on
the file
server, but
with

no

change

in

results. I
have
removed the
machine at
10.11.12.252
with the

only

change

being that
the
file-server
can obtain
NO
connection
to ANY IP

address.

Any help
would be
appreciated.

Why don't you cut/paste the
output of ifconfig -a and
netstat -rn

I suspect your network
settings are incorrect.

--

Bill Moran
Collaborative Fusion Inc.

wmoran@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Phone:

Re: problems with networking...

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412-422-3463x4023

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Bill Moran
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Re: problems with networking...

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