
Subject: dhcpd problem

Posted by m.tinnemeier@squild.de on Thu, 17 Jan 2008 11:25:22 GMT

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Hi folks,

we have some strange problems with a dhcpd inside a vps.

We configured our VPS to bridge veth with hosts eth0. The actual problem is that some of our clients don't get ip addresses from the dhcpd with client-side error message that the ip adress this client asked for is actually used by ethernet id xx.xx... - the given ethernet id is the id of the host-side veth-device of the dhcp vps.

can anyone help?

regars,
matthias

our config in detail:

DHCPd-Log auf VPS

[...]

VPS dhcpd: DHCPDISCOVER from 00:1c:b3:bd:ac:d4 via eth0

VPS dhcpd: DHCPOFFER on 192.168.55.200 to 00:1c:b3:bd:ac:d4 via eth0

VPS dhcpd: DHCPREQUEST for 192.168.55.200 (192.168.55.11) from 00:1c:b3:bd:ac:d4 via eth0

VPS dhcpd: DHCPACK on 192.168.55.200 to 00:1c:b3:bd:ac:d4 via eth0

VPS dhcpd: DHCPREQUEST for 192.168.55.200 (192.168.55.11) from 00:1c:b3:bd:ac:d4 via eth0

VPS dhcpd: DHCPACK on 192.168.55.200 to 00:1c:b3:bd:ac:d4 via eth0

VPS dhcpd: Abandoning IP address 192.168.55.200: declined.

VPS dhcpd: DHCPDECLINE of 192.168.55.200 from 00:1c:b3:bd:ac:d4 via eth0: not found

[...]

Netzwerk-Setup VE0:

```
# The loopback network interface
auto lo
iface lo inet loopback
```

```
# OPENVZ anonymous bridge
#
# (anonymous bridge = a bridge without
# an assigned IP)
auto br0
iface br0 inet manual
    bridge_ports eth0
    bridge_maxwait 0
```

```
# The primary network interface
auto eth0
iface eth0 inet static
    address 192.168.55.5
    network 192.168.55.0
    netmask 255.255.255.0
    broadcast 192.168.55.255
    gateway 192.168.55.254
```

Routingtabelle DHCPd-VPS

```
# ip route show
192.168.55.11 dev br0 scope link
192.168.55.5 dev br0 scope link
192.168.55.0/24 dev eth0 proto kernel scope link src 192.168.55.5
default via 192.168.55.254 dev eth0
```

Netzwerk-Interfaces VE0

```
# ifconfig -a
br0    Protokoll:Ethernet Hardware Adresse 00:0C:29:0C:7A:1A
       inet6 Adresse: fe80::218:f3ff:fe0d:2edd/64 Gültigkeitsbereich:Verbindung
       UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
       RX packets:24758 errors:0 dropped:0 overruns:0 frame:0
       TX packets:2917 errors:0 dropped:0 overruns:0 carrier:0
       Kollisionen:0 Sendewarteschlangenlänge:0
       RX bytes:3819612 (3.6 MiB) TX bytes:236898 (231.3 KiB)

eth0    Protokoll:Ethernet Hardware Adresse 00:18:F3:0D:2E:DD
       inet Adresse:192.168.55.5 Bcast:192.168.55.255 Maske:255.255.255.0
       inet6 Adresse: fe80::218:f3ff:fe0d:2edd/64 Gültigkeitsbereich:Verbindung
       UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
       RX packets:42497 errors:0 dropped:0 overruns:0 frame:0
       TX packets:30174 errors:0 dropped:0 overruns:0 carrier:0
       Kollisionen:0 Sendewarteschlangenlänge:1000
```

RX bytes:6101271 (5.8 MiB) TX bytes:6908267 (6.5 MiB)
Interrupt:193

lo Protokoll:Lokale Schleife
inet Adresse:127.0.0.1 Maske:255.0.0.0
inet6 Adresse: ::1/128 Gültigkeitsbereich:Maschine
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:106 errors:0 dropped:0 overruns:0 frame:0
TX packets:106 errors:0 dropped:0 overruns:0 carrier:0
Kollisionen:0 Sendewarteschlangenlänge:0
RX bytes:10878 (10.6 KiB) TX bytes:10878 (10.6 KiB)

sit0 Protokoll:IPv6-nach-IPv4
NOARP MTU:1480 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
Kollisionen:0 Sendewarteschlangenlänge:0
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

veth100.0 Protokoll:Ethernet Hardware Adresse 00:0C:29:0C:7A:3A
inet6 Adresse: fe80::20c:29ff:fe0c:7a3a/64 Gültigkeitsbereich:Verbindung
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:3822 errors:0 dropped:0 overruns:0 frame:0
TX packets:12067 errors:0 dropped:0 overruns:0 carrier:0
Kollisionen:0 Sendewarteschlangenlänge:0
RX bytes:2919192 (2.7 MiB) TX bytes:1260384 (1.2 MiB)

Bridge VE0

```
# brctl show
bridge name bridge id STP enabled interfaces
br0 8000.000c290c7a1a no eth0
veth100.0
```

Relevanter Auszug aus der VPS-Config
Rest Standard:

```
# cat /etc/vz/conf/100.conf
```

[...]

```
# Don't create a venet device!
```

```
#IP_ADDRESS=""
```

```
CONFIG_CUSTOMIZED="yes"
```

```
# Bridged networking
```

```
VZHOSTBR="br0"
```

```
VETH_IP_ADDRESS="192.168.55.11"
```

```
NETIF="ifname=eth0,mac=00:0C:29:0C:7A:2B,host_ifname=veth100.0,host_mac=00:0C:29:0C:7A:3A"
```

```
-----  
Netzwerk-Setup DHCPd-VPS
```

```
# Auto generated interfaces
```

```
auto lo
```

```
iface lo inet loopback
```

```
auto eth0
```

```
iface eth0 inet static
```

```
address 192.168.55.11
```

```
netmask 255.255.255.0
```

```
broadcast 192.168.55.255
```

```
network 192.168.55.0
```

```
gateway 192.168.55.254
```

```
dns-nameserver 192.168.55.11
```

```
-----  
Routingtable DHCPd-VPS
```

```
# ip route show
```

```
192.168.55.0/24 dev eth0 proto kernel scope link src 192.168.55.11
```

```
default via 192.168.55.254 dev eth0
```