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Subject: Re: Running DHCP on VPS, ( on a router.. )

Posted by [dev](#) on Sun, 30 Sep 2007 07:30:29 GMT

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oh, sorry, wrong patch :/

I've attached new debug patch, please check it.

It should print some information in /var/log/messages about what packets are dropped and due to which condition.

Thanks a lot for your help!

Kirill

P.S. you can use in production kernel with removed filtering in veth\_xmit() until it is resolved.

Dariusz Pietrzak wrote:

>>Can you please revert previous patch and apply the one I attached?

>>Does it help?

>

> it crashes on boot on machine with veth-using vps, (clean machine boots

> ok though).

> Screenshot attached

>

>

>

> -----

>

```
--- ./drivers/net/veth.c.ve2346 2007-09-30 11:26:01.000000000 +0400
```

```
+++ ./drivers/net/veth.c 2007-09-30 11:30:45.000000000 +0400
```

```
@@ -282,22 +282,26 @@ static int veth_xmit(struct sk_buff *skb
```

```
    struct net_device *rcv = NULL;
```

```
    struct veth_struct *entry;
```

```
    int length;
```

```
+ int reason = 0;
```

```
    stats = veth_stats(dev, smp_processor_id());
```

```
    if (unlikely(get_exec_env()->disable_net))
```

```
        goto outf;
```

```
+ reason = 1;
```

```
    entry = veth_from_netdev(dev);
```

```
    rcv = entry->pair;
```

```
    if (!rcv)
```

```
        /* VE going down */
```

```
        goto outf;
```

```
+ reason = 2;
```

```

if (!(rcv->flags & IFF_UP)) {
/* Target VE does not want to receive packets */
goto outf;
}

+ reason = 3;
if (unlikely(rcv->owner_env->disable_net))
goto outf;
/* Filtering */
@@ -309,12 +313,14 @@ static int veth_xmit(struct sk_buff *skb
if (is_multicast_ether_addr(
((struct ethhdr *)skb->data)->h_dest))
goto outf;
+ reason = 4;
if (compare_ether_addr(((struct ethhdr *)skb->data)->h_dest,
rcv->dev_addr))
goto outf;
} else if (!ve_is_super(dev->owner_env) &&
!entry->allow_mac_change) {
/* from VE to VE0 */
+ reason = 5;
if (compare_ether_addr(((struct ethhdr *)skb->data)->h_source,
dev->dev_addr))
goto outf;
@@ -361,6 +367,23 @@ out:
return 0;

outf:
+ {
+ unsigned char *addr;
+ int i;
+
+ printk("veth_xmit() dropped pkt reason %d:\n", reason);
+
+ addr = ((struct ethhdr *)skb->data)->h_source;
+ printk(" src = ");
+ for (i = 0; i < ETH_ALEN; i++)
+ printk("%02x:", addr[i]);
+
+ addr = ((struct ethhdr *)skb->data)->h_dest;
+ printk(" dst = ");
+ for (i = 0; i < ETH_ALEN; i++)
+ printk("%02x:", addr[i]);
+ printk("\n");
+ }
kfree_skb(skb);
stats->tx_dropped++;
return 0;

```

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