

---

Subject: Re: [PATCH] Virtual ethernet tunnel (v.2)  
Posted by [Ben Greear](#) on Fri, 08 Jun 2007 17:00:20 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Pavel Emelianov wrote:

> Ben Greear wrote:

>

> [snip]

>

>

>>>> I would also like some way to identify veth from other device types,

>>>> preferably

>>>> something like a value in sysfs. However, that should not hold up

>>>>

>>>>

>>> We can do this with ethtool. It can get and print the driver name of

>>> the device.

>>>

>>>

>> I think I'd like something in sysfs that we could query for any

>> interface. Possible return

>> strings could be:

>> VLAN

>> VETH

>> ETH

>> PPP

>> BRIDGE

>> AP /\* wifi access point interface \*/

>> STA /\* wifi station \*/

>> ....

>>

>> I will cook up a patch for consideration after veth goes in.

>>

>>

>

> Ben, could you please tell what sysfs features do you

> plan to implement?

>

I think this is the only thing that has a chance of getting into the kernel.

Basically, I have a user-space app and I want to be able to definitively

know the type for

all interfaces. Currently, I have a hodge-podge of logic to query

various ioctls and /proc

files and finally, guess by name if nothing else works. There must be a

better way :P

I have another sysfs patch that allows setting a default skb->mark for  
an interface so that you can set the skb->mark

before it hits the connection tracking logic, but I'm been told this one has very little chance of getting into the kernel. The skb->mark patch is only useful (as far as I can tell) if you also include a patch Patrick McHardy did for me that allowed the conn-tracking logic to use skb->mark as part of it's tuple. This allows me to do NAT between virtual routers (routing tables) on the same machine using veth-equivalent drivers to connect the routers. He thinks this will probably not ever get into the kernel either.

I have another sysctl related send-to-self patch that also has little chance of getting into the kernel, but it might be quite useful with veth (it's useful to me..but my needs aren't exactly mainstream :)) I'll post this separately for consideration....

Thanks,  
Ben

--

Ben Greear <greearb@candelatech.com>  
Candela Technologies Inc <http://www.candelatech.com>

---

Containers mailing list  
[Containers@lists.linux-foundation.org](mailto:Containers@lists.linux-foundation.org)  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

---