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Subject: Re: VLAN on VETH device?

Posted by [szocske](#) on Thu, 09 Nov 2006 10:19:57 GMT

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Andrey Mirkin wrote on Tue, 07 November 2006 11:19: The patch for 2.6.18 kernel is ready. You can try it right now.

vlan virtualization will be available in next kernel release.

We have it working, and see no regression in regular functionality.

/proc/net/vlan directory exists and can be populated via vconfig.

But any vlan subinterface created in one VE is visible in all (the veth device is called eth0 in all VEs)

ifconfig -a does not list "foreign" vlans.

It is not possible to create vlans with the same vlan ID in multiple VEs:

```
eserver25-vz6:~# vconfig add eth0 106
Added VLAN with VID == 106 to IF -:eth0:-
```

```
eserver25-vz7:~# vconfig add eth0 107
Added VLAN with VID == 107 to IF -:eth0:-
```

```
eserver25-vz6:~# vconfig add eth0 107
ERROR: trying to add VLAN #107 to IF -:eth0:- error: Invalid argument
```

```
eserver25-vz6:~# cat /proc/net/vlan/
config eth0.106 eth0.107
eserver25-vz6:~# cat /proc/net/vlan/config
VLAN Dev name | VLAN ID
Name-Type: VLAN_NAME_TYPE_RAW_PLUS_VID_NO_PAD
eth0.106 | 106 | eth0
```

```
eserver25-vz6:~# ls /proc/net/vlan/
config eth0.106 eth0.107
eserver25-vz6:~# cat /proc/net/vlan/eth0.107
eth0.107 VID: 107 REORDER_HDR: 1 dev->priv_flags: 1
    total frames received      0
    total bytes received       0
Broadcast/Multicast Rcvd      0
```

```
    total frames transmitted   0
    total bytes transmitted    0
    total headroom inc         0
    total encap on xmit        0
```

Device: eth0

INGRESS priority mappings: 0:0 1:0 2:0 3:0 4:0 5:0 6:0 7:0

EGRESSSS priority Mappings:

Can we have this revised please?

Editing:

Just noticed, same goes for host machine:

```
eserver25:~# ls /proc/net/vlan/  
config eth0.106 eth0.107  
eserver25:~# cat /proc/net/vlan/config  
VLAN Dev name | VLAN ID  
Name-Type: VLAN_NAME_TYPE_RAW_PLUS_VID_NO_PAD
```

Editing again:

And I can't shut down the VE which has a VLAN configured:

```
eserver25:~# vzctl stop 109  
Stopping VPS ...
```

```
Message from syslogd@localhost at Thu Nov 9 11:34:37 2006 ...  
localhost kernel: unregister_netdevice: waiting for eth0 to become free. Usage count = -1
```

```
Message from syslogd@localhost at Thu Nov 9 11:35:17 2006 ...  
localhost last message repeated 4 times
```

Meanwhile, the vlans disappear from the remaining machines:

```
eserver25-vz6:~# ls /proc/net/vlan/  
config  
eserver25-vz6:~# cat /proc/net/vlan/config  
VLAN Dev name | VLAN ID  
Name-Type: VLAN_NAME_TYPE_RAW_PLUS_VID_NO_PAD  
eth0.106 | 106 | eth0
```