Subject: linux vlan + ipv6 tunnel
Posted by Bogdan-Stefan Rotariu on Thu, 15 May 2008 14:15:41 GMT
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Hello,

I got a strange issue related to CentOS, kernel
2.6.18-53.1.13.el5.028stab053.10, and even 2.6.24.
I got a P4/3Ghz machine, which has vlans, and a ipv6 tunnel to he.net.
The problem with the 2.6.18 modified CentOS kernel, is that the ipv6,
does work but not the default ipv6 routing, it errors with :
ping6 ipv6.he.net
connect: Network is unreachable.
The default 2.6.18 from CentOS works like a charm, same with 2.6.24
(both vanilla).
I need your opinions on how to fix the problem, the 2.6.24 with the
openvz patch dies with kernel-panic, and many OOPS.

Output of error :

May 14 20:49:36 local kernel: e1000: eth0: e1000_watchdog: NIC Link is
Up 100 Mbps Full Duplex, Flow Control: RX/TX
May 14 20:49:36 local kernel: ADDRCONF(NETDEV_CHANGE): eth0: link
becomes ready
May 14 20:49:36 local kernel: BUG: unable to handle kernel paging
request at virtual address 00001000
May 14 20:49:36 local kernel: printing eip: f8f3907f *pde = 00000000
May 14 20:49:36 local kernel: Oops: 0000 [#1] SMP
May 14 20:49:36 local kernel: Modules linked in: inet_diag w83627hf
hwmon_vid eeprom lm75 hwmon sit tunnel4 ipt_MASQUERADE xt_state
iptable_nat nf_nat nf_conntrack_ipv4 nf_conntrack vzethdev simfs vzrst
vzcpt t
un vzdquota xt_tcpudp xt_length xt_tcpmss xt_TCPMSS iptable_mangle
iptable_filter xt_limit ip_tables x_tables 8021q vznetdev vzmon ipv6
vzdev reiserfs dm_mirror dm_mod sbs sbshc button battery ac ehci_hcd uhci_
hcd i2c_i801 i2c_core iTCO_wdt iTCO_vendor_support e100 mii e1000 floppy
sr_mod cdrom ext3 mbcache jbd ata_piix sata_promise libata sd_mod scsi_mod
May 14 20:49:36 local kernel:
May 14 20:49:36 local kernel: Pid: 7, comm: events/0 Not tainted (2.6.24
#1 dooh.01)
May 14 20:49:36 local kernel: EIP: 0060:[<f8f3907f>] EFLAGS: 00010206 CPU: 0
May 14 20:49:36 local kernel: EIP is at __vlan_find_group+0x20/0x3c [8021q]
May 14 20:49:36 local kernel: EAX: 00001000 EBX: 00000002 ECX: 00001000
EDX: c0722080
May 14 20:49:36 local kernel: ESI: fffffff4 EDI: 00000000 EBP: 00000000

ESP: f7c4bee8
May 14 20:49:36 local kernel: DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
May 14 20:49:36 local kernel: Process events/0 (pid: 7, veid: 0,
ti=f7c4b000 task=f7c48000 task.ti=f7c4b000)
May 14 20:49:36 local kernel: Stack: 00001000 00000004 f8f39965 00000000
f75b6000 f8f3d1c4 fffffff4 00000000
May 14 20:49:36 local kernel: 00000000 c062a384 f75b6000 00000004
f75b6000 00000000 00000000 00000000
May 14 20:49:36 local kernel: c04416d0 ffffffff 00000000 c05c011d
f75b6000 c05cb455 c1909550 f7c292c0
May 14 20:49:36 local kernel: Call Trace:
May 14 20:49:36 local kernel: [<f8f39965>] vlan_device_event+0x1a/0x196
[8021q]
May 14 20:49:36 local kernel: [<c062a384>] notifier_call_chain+0x37/0x65
May 14 20:49:36 local kernel: [<c04416d0>]
raw_notifier_call_chain+0x17/0x1a
May 14 20:49:36 local kernel: [<c05c011d>] netdev_state_change+0x18/0x29
May 14 20:49:36 local kernel: [<c05cb455>] __linkwatch_run_queue+0xfa/0x11d
May 14 20:49:36 local kernel: [<c0439fde>] queue_delayed_work_on+0x90/0x9c
May 14 20:49:36 local kernel: [<c05cb47f>] linkwatch_event+0x0/0x28
May 14 20:49:36 local kernel: [<c05cb4a0>] linkwatch_event+0x21/0x28
May 14 20:49:36 local kernel: [<c043a06b>] run_workqueue+0x81/0x106
May 14 20:49:36 local kernel: [<c043a0f0>] worker_thread+0x0/0xdc
May 14 20:49:36 local kernel: [<c043a1c2>] worker_thread+0xd2/0xdc
May 14 20:49:36 local kernel: [<c043dc55>]
autoremove_wake_function+0x0/0x33
May 14 20:49:36 local kernel: [<c043dc55>]
autoremove_wake_function+0x0/0x33
May 14 20:49:36 local kernel: [<c043a0f0>] worker_thread+0x0/0xdc
May 14 20:49:36 local kernel: [<c043d843>] kthread+0x34/0x55
May 14 20:49:36 local kernel: [<c043d80f>] kthread+0x0/0x55
May 14 20:49:36 local kernel: [<c0405bff>] kernel_thread_helper+0x7/0x10
May 14 20:49:36 local kernel: =======================
May 14 20:49:36 local kernel: Code: 00 00 00 5b e9 e8 80 51 c7 5b c3 53
89 c3 c1 f8 05 31 d8 83 e0 1f 51 8b 04 85 00 e4 f3 f8 89 04 24 8b 04 24
85 c0 74 1a 8b 0c 24 <8b> 01 0f 18 00 90 39 59 fc 8d 41 fc 75 05 3
b 50 34 74 06 8b 01
May 14 20:49:36 local kernel: EIP: [<f8f3907f>]
__vlan_find_group+0x20/0x3c [8021q] SS:ESP 0068:f7c4bee8
May 14 20:49:36 local kernel: ---[end trace 4d0b62b712d7688b]---

If needed, i will provide more info about the motherboard.

Thank you.

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qcsAn3OyzshOMkWIx7WNbJa6w/J0GPFP
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