Subject: Re: Debian: recommended kernel
Posted by Roman Haefeli on Fri, 04 May 2012 09:58:12 GMT
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Thanks for all the responses!

On Thu, 2012-05-03 at 09:14 +0400, Kir Kolyshkin wrote:
> On 05/02/2012 09:39 PM, Timh B wrote:
> > This was linked earlier this week;
> > https://github.com/CoolCold/tools/blob/master/openvz/kernel/ create-ovz-kernel-for-debian.sh
> >
> > Might be useful for you if you wish to get a debianized openvz-kernel.
>
> Yet another solution is to use alien:
> http://wiki.openvz.org/Install_kernel_from_RPM_on_Debian_6.0
>
> The bad thing about it is it's not a "native" way. The good thing is you
> have the same bit-by-bit binary kernel which we test a lot.

In the meanwhile I have tried two of the suggested solutions:

* RHEL6-kernel (debianized with alien)
* proxmox-kernel from their repository (which for the 2.6.32 version
says it is based on RHEL6)

(I haven't looked yet into building my own with CoolCold's script)

I didn't have troubles to install either of those. However, both expose
the exact same problem. The network bridges vzbr0 and vzbr1 do not work
correctly and I need those for the veth devices of the containers.
Networking without those bridges seem to work fine, but when the bridges
are active, TCP connections fail to work. UDP seems to be not affected,
both inbound and outbound connections work. However, with TCP I can only
establish outbound connections, but as soon as the connection is
established, nothing is received on the other end anymore. Nor can I
send from outside to the machine with vzbr0.

When I switch back to Debian's OpenVZ kernel, the problems disappear,
but come back, when I boot into the RHEL6 or proxmox kernel. I wonder if
really the kernel is the problem or rather some network/bridge
configuration. I assume others do run bridges successfully with the
aforementioned kernels also run CTs with veths successfully. Is that
correct?

Roman

This is my network configuration on said machine:

```
eth2  eth3          physical NICs
 |    |
 +--+--+
    |
  bond0
    |
+---+-----+----------+
|    |     |
vlan20 vlan30   vlan31   VLANs
|      |
vzbr0  vzbr1          bridges

DMZ     local(NFS)
```

The loopback network interface
auto lo
iface lo inet loopback

Fasst die beiden physischen 10Gb-Ports zu
einem Interface zusammen
auto bond0
iface bond0 inet manual
        bond-mode 4
        bond-miimon 100
        bond_xmit_hash_policy layer2+3
        bond_lacp_rate slow
        slaves eth2 eth3

VLAN für DMZ (über bond0)
auto vlan20
iface vlan20 inet manual
        vlan_raw_device bond0
        address 0.0.0.0

VLAN für NFS Netz (über bond0)
auto vlan30
iface vlan30 inet manual
        vlan_raw_device bond0
        address 0.0.0.0

VLAN für iSCSI Netz (über bond0)
auto vlan31
iface vlan31 inet static
        vlan_raw_device bond0

```
        address 10.10.11.92
        network 10.10.11.0
        netmask 255.255.255.0

# Bridge für VZ (DMZ)
auto vzbr0
iface vzbr0 inet static
        bridge_ports vlan20
        bridge_maxwait 2
        address 195.176.254.92
        network 195.176.254.0
        netmask 255.255.255.128
        broadcast 195.176.254.127
        gateway 195.176.254.1

# Bridge für VZ (NFS Netz)
auto vzbr1
iface vzbr1 inet static
        bridge_ports vlan30
        bridge_maxwait 2
        address 10.10.10.92
        network 10.10.10.0
        netmask 255.255.255.0

---
```