

strongSwan - Bug #336

Testing environment broken

04.05.2013 14:37 - Christian Liebscher

Status:	Closed	Start date:	04.05.2013
Priority:	Normal	Due date:	
Assignee:	Tobias Brunner	Estimated time:	0.00 hour
Category:	testing	Resolution:	Fixed
Target version:	5.1.0		
Affected version:	5.0.3		

Description

I just tried to setup the new debian based testing environment and failed miserably. I'm using an up to date debian wheezy (i386 pae kernel, native on a Core i5).

I installed the packages you mentioned in the wiki (debootstrap e2fsprogs kvm libvirt-bin parted qemu wget gcc make).

At the first attempt i only changed the build directory and the mirror (ftp.debian.de) but I ran into a mount failure during debootstrap:

```
W: Failure trying to run: chroot /home/user/strongswan-testing/build/loop mount -t proc proc /proc
```

After consulting the ubuntu and debian forums i figured it could be a problem with the different architectures. Therefore I changed it to i386 in the testing.conf and this particularly error was gone.

But now the build hangs at "Installing from recipe 009_tkm.mk" and the testing.log ends with:

```
gcc-4.6 test_runner.o -lgmp -lmpfr -o test_runner
```

Thats it, nothing more happens after that. CPU usage is down to zero and I can wait as long as I want, gcc will not finish linking.

Please let me know if you need more information or if you have a solution.

Associated revisions

Revision 9c2aba27 - 06.05.2013 18:17 - Tobias Brunner

testing: Don't run tests when building tkm-rpc

There are issues with some versions of the XML/Ada library on i386, blocking the build of the testing environment when these tests are run. TKM tests won't work in such a case but at least make-testing does not block with this patch.

Fixes #336.

Revision e74bca9e - 07.05.2013 10:19 - Tobias Brunner

testing: Don't run tests when building tkm

The problem with XML/Ada described in 9c2aba27 actually occurs when running the tests here.

Really fixes #336.

History

#1 - 06.05.2013 18:17 - Tobias Brunner

- Status changed from New to Resolved

- Assignee set to Tobias Brunner

- Resolution set to Fixed

At the first attempt i only changed the build directory and the mirror (ftp.debian.de) but I ran into a mount failure during debootstrap:

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After consulting the ubuntu and debian forums i figured it could be a problem with the different architectures. Therefore I changed it to i386 in the testing.conf and this particularly error was gone.

Cross-building the testing environment is currently not supported. The bind daemon requires /proc to be mounted (it is bind-mounted in this case due to the chroot), which basically means that the host has to run the same architecture as the guests. I updated the [documentation](#) accordingly.

But now the build hangs at "Installing from recipe 009_tkm.mk" and the testing.log ends with:

```
gcc-4.6 test_runner.o -lgmp -lmpfr -o test_runner
```

Thats it, nothing more happens after that. CPU usage is down to zero and I can wait as long as I want, gcc will not finish linking.

Removing *make tests* in this recipe should fix the blocking issue. Apparently, there are problems on i386 with the XML/Ada library included in Debian wheezy. Which means that even if the build is successful the *tkm* test cases won't run successfully later on (which is only an issue, of course, if you actually intended to run any of the test cases).

#2 - 07.05.2013 11:05 - Christian Liebscher

I only wanted to load some standard testcases and make some modifications to them for my own test scenarios. Unfortunately I'm restricted to i386 and have no amd64 install of debian at my disposal.

I removed "make test" from recipe "009_tkm.mk" and to be sure also from recipe "006...mk" as you suggested. So you might want to remove the "make test" from recipe 009 as well.

However something is still strange. During Kernel make oldconfig I had to answer many questions about kernel modules. I would guess this is an architecture issue again. I just answered everything with the default answer and the build went fine.

After that, I noticed the subnets in testing.conf are already in use by my system, so i changed them accordingly in testing.conf

```
HOSTNAMEIPV4="\
alice,10.100.0.10,192.168.100.50 \
venus,10.100.0.20 \
moon,192.168.100.1,10.100.0.1 \
carol,192.168.100.100,10.300.0.1 \
winnetou,192.168.100.150 \
dave,192.168.100.200,10.300.0.2 \
sun,192.168.100.2,10.200.0.1 \
bob,10.200.0.10"
```

I also had a look at config/kvm/vnet1.xml ... vnet3.xml and changed the values for the subnets.

Now I ran ./start-testing. The script doesn't put out any errors but the kvm hosts don't seem to boot correctly. This is my output from ifconfig after ./start-testing

```
alice-eth0 Link encap:Ethernet HWaddr fe:54:00:9a:e2:de
inet6 addr: fe80::fc54:ff:fe9a:e2de/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:292 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:21018 (20.5 KiB)
```

```
alice-eth1 Link encap:Ethernet HWaddr fe:54:00:3b:0c:d7
inet6 addr: fe80::fc54:ff:fe3b:cd7/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:257 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:0 (0.0 B) TX bytes:22931 (22.3 KiB)
```

```
bob-eth0 Link encap:Ethernet HWaddr fe:54:00:40:85:6b
inet6 addr: fe80::fc54:ff:fe40:856b/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:277 errors:0 dropped:0 overruns:0 carrier:0
```

```
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:19193 (18.7 KiB)
```

```
carol-eth0 Link encap:Ethernet HWaddr fe:54:00:ae:f1:f8
inet6 addr: fe80::fc54:ff:feae:f1f8/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:340 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:26846 (26.2 KiB)
```

```
dave-eth0 Link encap:Ethernet HWaddr fe:54:00:b9:15:a9
inet6 addr: fe80::fc54:ff:feb9:15a9/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:338 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:26477 (25.8 KiB)
```

```
eth0 Link encap:Ethernet HWaddr 00:19:99:bd:c8:23
inet addr:192.168.0.23 Bcast:192.168.0.255 Mask:255.255.255.0
inet6 addr: fe80::219:99ff:febd:c823/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:10395946 errors:0 dropped:0 overruns:0 frame:0
TX packets:9644597 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:4641375895 (4.3 GiB) TX bytes:2637253511 (2.4 GiB)
Interrupt:20 Memory:fe600000-fe620000
```

```
eth1 Link encap:Ethernet HWaddr 68:05:ca:01:f3:a8
inet addr:10.10.0.1 Bcast:10.10.255.255 Mask:255.255.0.0
inet6 addr: fe80::6a05:caff:fe01:f3a8/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:3810063 errors:0 dropped:0 overruns:0 frame:0
TX packets:2734004 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:2987830515 (2.7 GiB) TX bytes:695963478 (663.7 MiB)
Interrupt:16 Memory:fe4c0000-fe4e0000
```

```
lo Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:6872 errors:0 dropped:0 overruns:0 frame:0
TX packets:6872 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:422312 (412.4 KiB) TX bytes:422312 (412.4 KiB)
```

```
moon-eth0 Link encap:Ethernet HWaddr fe:54:00:c7:b8:b0
inet6 addr: fe80::fc54:ff:fec7:b8b0/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:336 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:26151 (25.5 KiB)
```

```
moon-eth1 Link encap:Ethernet HWaddr fe:54:00:43:e3:35
inet6 addr: fe80::fc54:ff:fe43:e335/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:277 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:18504 (18.0 KiB)
```

```
sun-eth0 Link encap:Ethernet HWaddr fe:54:00:77:43:ea
inet6 addr: fe80::fc54:ff:fe77:43ea/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:331 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:25703 (25.1 KiB)
```

```
sun-eth1 Link encap:Ethernet HWaddr fe:54:00:0f:97:db
inet6 addr: fe80::fc54:ff:fe0f:97db/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
```

```
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:266 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:17632 (17.2 KiB)
```

```
test-br0 Link encap:Ethernet HWaddr 52:54:00:97:f9:fd
inet addr:192.168.100.254 Bcast:192.168.100.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:30 errors:0 dropped:0 overruns:0 frame:0
TX packets:59 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:2760 (2.6 KiB) TX bytes:8207 (8.0 KiB)
```

```
test-br1 Link encap:Ethernet HWaddr 52:54:00:05:f3:34
inet addr:10.100.0.254 Bcast:10.100.255.255 Mask:255.255.0.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:18 errors:0 dropped:0 overruns:0 frame:0
TX packets:21 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:1656 (1.6 KiB) TX bytes:3065 (2.9 KiB)
```

```
test-br2 Link encap:Ethernet HWaddr 52:54:00:62:4c:69
inet addr:10.200.0.254 Bcast:10.200.255.255 Mask:255.255.0.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:12 errors:0 dropped:0 overruns:0 frame:0
TX packets:17 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:1104 (1.0 KiB) TX bytes:2130 (2.0 KiB)
```

```
venus-eth0 Link encap:Ethernet HWaddr fe:54:00:69:d3:80
inet6 addr: fe80::fc54:ff:fe69:d380/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:271 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:17989 (17.5 KiB)
```

```
winnetou-eth0 Link encap:Ethernet HWaddr fe:54:00:4b:23:fa
inet6 addr: fe80::fc54:ff:fe4b:23fa/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:6 errors:0 dropped:0 overruns:0 frame:0
TX packets:318 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:500
RX bytes:636 (636.0 B) TX bytes:24308 (23.7 KiB)
```

Now I'm stuck again. I don't have any experience with kvm but I tried to connect to the hosts via "sudo virsh console alice", but got no output what so ever except for:

```
~/strongswan-testing/testing$ sudo virsh console alice
Connected to domain alice
Escape character is ^]
```

Can you give me a hint, how to debug this issue further? At this point I would guess that I miss some kvm modules in the kernel.

#3 - 07.05.2013 11:43 - Tobias Brunner

I removed "make test" from recipe "009_tkm.mk" and to be sure also from recipe "006...mk" as you suggested. So you might want to remove the "make test" from recipe 009 as well.

Yes, I fixed it this morning.

After that, I noticed the subnets in testing.conf are already in use by my system, so i changed them accordingly in testing.conf [...]

Changing these is also something not really supported at the moment (all test cases use hard-coded IPs - with the old setup it was different, at least partially, I think it was never fully supported).

Now I'm stuck again. I don't have any experience with kvm but I tried to connect to the hosts via "sudo virsh console alice", but got no output what so ever except for:
[...]

This command doesn't work for me either. You can use the testing/ssh script to connect to the guests via SSH. It also works with *virt-manager* (but the keyboard layout is not correct there).

#4 - 07.05.2013 13:51 - Christian Liebscher

It works for me now, although i had to renumber my local subnets ;-)

At least ikev2/net2net-psk works (i didn't try other testcases yet) and I can login to the virtual guests. Thanks for your help.

PS: You may want to deliver a kernel config that is not asking any question during the make oldconfig (I guess this works for amd64). I could send you mine if you like (answered all with standard).

#5 - 21.05.2013 14:13 - Tobias Brunner

- *Status changed from Resolved to Closed*

- *Target version set to 5.1.0*