Subject: *SOLVED* Make Kernel Module ztdummy available in VE
Posted by schogge on Fri, 24 Aug 2007 12:55:21 GMT
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Hi,

I have installed and loaded the kernel module ztdummy (include in zaptel) on HN and want to give VE access to it.

My system:
Host: CentOS 5
Kernel: 2.6.18-8.1.4.el5.028stab035.1
Guest: CentOS 4
zaptel: zaptel-1.2.20.1

The test utility zttest shows this on HN:

zttest
Opened pseudo zap interface, measuring accuracy...
99.975586% 99.926758% 99.975586% 99.975586% 99.926758%

I also gave VE access to /dev/zap by running

for x in `ls /dev/zap`; do /usr/sbin/vzctl set 200 --devnodes zap/${x}:rw --save; done

ls /dev/zap inside VE shows

ls /dev/zap/
channel ctl pseudo timer transcode

However asterisk is compiling without its conferencing tool MeetMe, which means ztdummy is missing on the system.

Is their a way to check if ztdummy works correctly in VE?

Any idea to get it running?

Thanks,
schogge

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by Alexandr Andreev on Thu, 04 Oct 2007 15:01:50 GMT
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1. Had you solve the problem?

Quote:However asterisk is compiling without its conferencing tool MeetMe, which means ztdummy

is missing on the system.

2. Probably you compiled zaptel in VE0, installed kernel modules, gave access to /dev/zap to VE's, and then entered VE, and tried to compile asteriks.

If so, you should also build and install zaptel inside VE, because asterisk requires zaptel headers and libraries to enable MeetMe support.

3. To check whether ztdummy loaded successful, run in your VE
ztcfg -v
ztcfg -d
cat /proc/zaptel/1

Here is all asterisk features, depending on ZAPTEL:

# grep ZAPTEL menuselect.makedeps
MENUSELECT_DEPENDS_app_flash=ZAPTEL
MENUSELECT_DEPENDS_app_meetme=ZAPTEL
MENUSELECT_DEPENDS_app_page=ZAPTEL APP_MEETME
MENUSELECT_DEPENDS_app_rpt=ZAPTEL TONEZONE
MENUSELECT_DEPENDS_app_zapbarge=ZAPTEL
MENUSELECT_DEPENDS_app_zapras=ZAPTEL
MENUSELECT_DEPENDS_app_zapscan=ZAPTEL
MENUSELECT_DEPENDS_chan_iax2=ZAPTEL
MENUSELECT_DEPENDS_chan_zap=RES_SMDI ZAPTEL_VLDTMF ZAPTEL TONEZONE PRI
MENUSELECT_DEPENDS_codec_zap=ZAPTEL_TRANSCODE ZAPTEL
MENUSELECT_DEPENDS_res_musiconhold=ZAPTEL

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by Emiliano on Fri, 16 Nov 2007 10:20:27 GMT
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Sorry guys to reopen this topic but I had the same problem.

Compiling zaptel on HN and VE was a success, but issuing modprobe on VE yields:

idra / # modprobe -v ztdummy
insmod /lib/modules/2.6.18-028stab027/misc/zaptel.ko
WARNING: Error inserting zaptel (/lib/modules/2.6.18-028stab027/misc/zaptel.ko): Operation not permitted
insmod /lib/modules/2.6.18-028stab027/misc/ztdummy.ko
FATAL: Error inserting ztdummy (/lib/modules/2.6.18-028stab027/misc/ztdummy.ko): Operation not permitted

The VE is a Gentoo system with kernel version 2.6.18-028stab027.

Any help is appreciable!

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by khorenko on Fri, 16 Nov 2007 10:48:26 GMT
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Well, loading modules from inside VE is prohibited, you have to load modules from HN (Hardware Node).

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by Emiliano on Fri, 16 Nov 2007 13:18:36 GMT
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Thanks for your reply.

Is it considered a bug or a known limitation of the OpenVZ architecture?

Tha is: is there anyone going to correct this?

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by khorenko on Fri, 16 Nov 2007 13:47:18 GMT
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Emiliano wrote on Fri, 16 November 2007 16:18Is it considered a bug or a known limitation of the OpenVZ architecture?
This is both limitation and the power of the OpenVZ. As all the VEs use the same kernel (OS level virtualization http://wiki.openvz.org/Introduction_to_virtualization), just imagine how simple is to write a bad kernel module, load it in any VE and crash the whole Node (Hardware Node)?
So this "limitation" defends VEs from each other.

So, this is not a bug, but the feature.

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by anishb on Sat, 15 Dec 2007 04:37:58 GMT
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Hi,

I am trying to compile zaptel inside a centos-4-minimal virtual environment so that Asterisk will compile with app_meetme. I am getting the following error:

[root@pbx zaptel-1.2.22.1]# make

make -C /usr/src/linux SUBDIRS=/usr/local/src/zaptel-1.2.22.1 HOTPLUG_FIRMWARE=yes modules
make[1]: Entering directory `/usr/src/kernels/2.6.18-53.el5.028stab051.1-i686'
  CC [M] /usr/local/src/zaptel-1.2.22.1/zaptel-base.o
/usr/local/src/zaptel-1.2.22.1/zaptel-base.c:188: warning: 'fcstab' defined but not used
/bin/sh: line 1: 5234 Done(2)   gcc -m32 -E -D__GENKSYMS__ -Wp,-MD,/usr/local/src/zaptel-1.2.22.1/.zaptel-base.o.d -nostdinc -isystem /usr/lib/gcc/i386-redhat-linux/3.4.6/include -D__KERNEL__ -Iinclude -include include/linux/autoconf.h -Wall -Wundef -Wstrict-prototypes -Wno-trigraphs -fno-strict-aliasing -fno-common -Wstrict-prototypes -Wundef -Werror-implicit-function-declaration -Os -pipe -msoft-float -fno-builtin-sprintf -fno-builtin-log2 -fno-builtin-puts -mpreferred-stack-boundary=2 -fno-unit-at-a-time -march=i686 -mregparm=3 -ffreestanding -Iinclude/asm-i386/mach-generic -Iinclude/asm-i386/mach-default -fomit-frame-pointer -Wdeclaration-after-statement -DSTANDALONE_ZAPATA -DBUILDING_TONEZONE -DHOTPLUG_FIRMWARE -I/usr/local/src/zaptel-1.2.22.1 -DMODULE -D"KBUILD_STR(s)=#s" -D"KBUILD_BASENAME=KBUILD_STR(zaptel_base)" -D"KBUILD_MODNAME=KBUILD_STR(zaptel)" /usr/local/src/zaptel-1.2.22.1/zaptel-base.c
     5236 Floating point exception| scripts/genksyms/genksyms -a i386 >/usr/local/src/zaptel-1.2.22.1/.tmp_zaptel-base.ver
make[2]: *** [/usr/local/src/zaptel-1.2.22.1/zaptel-base.o] Error 136
make[1]: *** [_module_/usr/local/src/zaptel-1.2.22.1] Error 2
make[1]: Leaving directory `/usr/src/kernels/2.6.18-53.el5.028stab051.1-i686'
make: *** [modules] Error 2

Anyone have any idea what the problem could be?

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by khorenko on Mon, 17 Dec 2007 14:34:21 GMT
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Hi.

i think this wiki will answer your question:
 http://wiki.openvz.org/Building_LKM_against_OpenVZ_kernel_fr om_RPM

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Konstantin.

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by ricoche on Tue, 29 Jan 2008 07:59:09 GMT

Emiliano wrote on Fri, 16 November 2007 05:20

Compiling zaptel on HN and VE was a success,

I understand and successfully compiled Zaptel on the HN, but how does one do the same for VE when you cannot access the Kernel Source required to compile. Or can you?

Thanks,

Jim

Subject: Re: Make Kernel Module ztdummy available in VE
Posted by ricoche on Tue, 29 Jan 2008 08:13:02 GMT

Alexandr Andreev wrote on Thu, 04 October 2007 11:01

2. Probably you compiled zaptel in VE0, installed kernel modules, gave access to /dev/zap to VE's, and then entered VE, and tried to compile asteriks.

If so, you should also build and install zaptel inside VE, because asterisk requires zaptel headers and libraries to enable MeetMe support.

This is exactly what I did, but I am not sure how to install zaptel inside VE because it requires access to the Kernel souce which I can't seem to install using "yum install ovzkernel-devel". I did this on the HN and it worked, but what to do with regards to the VE I am unsure.

Thanks,

Jim