Subject: [solved] 32bit binary in 64bit VE
Posted by zeek on Wed, 10 Dec 2008 20:02:22 GMT
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I'm having trouble getting a 32bit executable running inside a 64 bit VE. It runs fine in the host node but the VE doesn't like it. The binary is the Perforce client so I can't recompile it as 64 bit. 32 bit compatibility is built into the HN kernel.

vz # ldd /vz/root/1002/usr/local/bin/p4
libc.so.6 => /lib32/libc.so.6 (0xb7e33000)
/lib/ld-linux.so.2 (0xb7f6e000)

vz # vzctl exec 1002 ldd /usr/local/bin/p4
not a dynamic executable

Subject: Re: 32bit binary in 64bit VE
Posted by piavlo on Thu, 11 Dec 2008 09:07:30 GMT
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Try the following checks

projsrv3 ~ # zgrep CONFIG_IA32_EMULATION /proc/config.gz
CONFIG_IA32_EMULATION=y
projsrv3 ~ # ls -la /vz/private/103/lib/ld-linux.so.2
lrwxrwxrwx 1 root root 22 2008-03-15 18:24 /vz/private/103/lib/ld-linux.so.2 -> ../lib32/ld-linux.so.2
projsrv3 ~ # file -L /vz/private/103//lib/ld-linux.so.2
/vz/private/103//lib/ld-linux.so.2: ELF 32-bit LSB shared object, Intel 80386, version 1 (SYSV), dynamically linked, stripped

Subject: Re: 32bit binary in 64bit VE
Posted by zeek on Fri, 12 Dec 2008 18:30:11 GMT
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piavlo wrote on Thu, 11 December 2008 04:07

projsrv3 ~ # zgrep CONFIG_IA32_EMULATION /proc/config.gz
CONFIG_IA32_EMULATION=y
projsrv3 ~ # ls -la /vz/private/103/lib/ld-linux.so.2
lrwxrwxrwx 1 root root 22 2008-03-15 18:24 /vz/private/103/lib/ld-linux.so.2 -> ../lib32/ld-linux.so.2
projsrv3 ~ # file -L /vz/private/103//lib/ld-linux.so.2
/vz/private/103//lib/ld-linux.so.2: ELF 32-bit LSB shared object, Intel 80386, version 1 (SYSV), dynamically linked, stripped

Thanks for your answer.

ls -la /vz/private/1003/lib/ld-linux-x86-64.so.2
lrwxrwxrwx 1 root root 11 Dec 10 13:51 /vz/private/1003/lib/ld-linux-x86-64.so.2 -> ld-2.6.1.so

file -L /vz/private/1003/lib/ld-linux-x86-64.so.2
/vz/private/1003/lib/ld-linux-x86-64.so.2: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), stripped

I must've done something wrong somewhere so I rm'd the VE and started fresh and now p4 works:

vzctl exec 1003 /usr/local/bin/p4

Perforce -- the Fast Software Configuration Management System.
...