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Subject: \*SOLVED\* want SOCK\_RAW inside vps  
Posted by [jeffa](#) on Tue, 05 Sep 2006 21:53:15 GMT

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Hi, I have a program that I want to run inside a VPS that opens a raw socket:  
s = socket(AF\_INET, SOCK\_RAW, IPPROTO\_ESP)

...but this returns EAFNOSUPPORT, "Address family not supported by protocol". If run as non-root then you get EPERM "Operation not permitted" as expected. This works fine as root from the host system.

I'm running the latest 2.6.16-026test017 SMP development kernel.

My capabilities line says:

CAPABILITY="NET\_ADMIN:on NET\_RAW:on SYS\_ADMIN:on SYS\_TTY\_CONFIG:on "

and cat /proc/1/status says:

CapPrm: 000000005decfeff

CapEff: 000000005decfeff

What am I missing?

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Subject: Re: want SOCK\_RAW inside vps  
Posted by [jeffa](#) on Tue, 05 Sep 2006 22:12:43 GMT

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Now I also see using a simple test program that ICMP, TCP, and UDP raw sockets are permitted, but all others return this error. Is there some way to get a VPS that supports opening a raw socket using other protocol numbers?

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Subject: Re: want SOCK\_RAW inside vps  
Posted by [Vasily Tarasov](#) on Wed, 06 Sep 2006 06:23:36 GMT

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Hello,

The problem is that OpenVZ kernel in rpm is compiled with CONFIG\_INET\_ESP option off. So this protocol is not supported. You should recompile the kernel with CONFIG\_INET\_ESP option turned on.

Good luck,  
vass.

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Subject: Re: want SOCK\_RAW inside vps

Posted by [jeffa](#) on Wed, 06 Sep 2006 15:47:20 GMT

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Thanks for replying. I was able to bind using the protocols that I wanted (not just IPPROTO\_ESP) by adding protocols to the switch statement in vz\_security\_proto\_check() in net/sock.c.

There it restricts PF\_INET to these protocols:

```
case IPPROTO_IP:
case IPPROTO_ICMP:
case IPPROTO_TCP:
case IPPROTO_UDP:
case IPPROTO_RAW:
```