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Subject: Capabilities issue

Posted by [kevinm](#) on Tue, 31 Aug 2010 14:35:44 GMT

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Hi All !

I appear to be having an issue with capabilities inside a openvz container..

The source code that is giving me issues is the following :

```
/* init cap with all zeros */
cap = cap_init();
capval[0] = CAP_SETUID;
capval[1] = CAP_SETGID;
capval[2] = CAP_DAC_READ_SEARCH;
capval[3] = CAP_SYS_CHROOT;
cap_set_flag(cap, CAP_PERMITTED, (chroot_root >= 0 ? 4 : 3), capval, CAP_SET);
if (cap_set_proc(cap) != 0) {
    ap_log_error(APLOG_MARK, APLOG_ERR, 0, NULL, "%s CRITICAL ERROR
ruid_child_init:cap_set_proc failed", MODULE_NAME);
}
cap_free(cap);
```

I have granted the following capabilities to the virtual server , and restarted it :

Quote:CAPABILITY="CHOWN:on DAC\_READ\_SEARCH:on DAC\_OVERRIDE:on SETGID:on  
SETUID:on NET\_BIND\_SERVICE:on NET\_ADMIN:on SYS\_CHROOT:on SYS\_NICE:on  
SYS\_CHROOT:on "

however I get logged to apache error logs :

Quote:[Tue Aug 31 09:31:50 2010] [error] mod\_ruid CRITICAL ERROR ruid\_setup:cap\_set\_proc  
failed

stracing a process, shows

Quote:capset(0x19980330, 0, {CAP\_DAC\_OVERRIDE|CAP\_DAC\_READ\_SEARCH,  
CAP\_DAC\_OVERRIDE|CAP\_SETGID|CAP\_SETUID, 0}) = -1 EPERM (Operation not permitted)

is there any reason that even though ive granted these capabilities, that im still receiving -1  
EPERM (Operation not permitted) , I cant see anything wrong with the capabilities granted to the  
ones that are failing, any advise / assistance would be greatly appreciated.

best regards  
Kev