Subject: kernel 2.6.18 and binfmt_misc (even unloaded) => kernel panic
Posted by nyOP on Wed, 11 Feb 2009 21:32:57 GMT
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Hi
I'm happily using openvz from 15 months for web based apps on a Dell 1950 Poweredge, Xeon E5310, 3GB RAM, HD SAS ("bios" raid w/ megaraid_sas), Debian Etch, ovz 2.6.18 kernel.

Now I need java for some VPS, so I move to 2.6.18-14-fza-686 for binfmt_misc. I've not try yet if java apps work 'cause if I give a vzctl stop <N_VPS> (or similar) I obtain a kernel panic as follows:

*****
kernel: BUG: unable to handle kernel NULL pointer dereference at virtual address 00000024
kernel: BUG: unable to handle kernel NULL pointer dereference at virtual address 00000024
kernel: printing eip:
kernel: printing eip:
kernel: f8d381b8
kernel: f8d381b8
kernel: *pde = 00000000
kernel: *pde = 00000000
kernel: Oops: 0000 [#1]
kernel: Oops: 0000 [#1]
kernel: SMP
kernel: SMP
kernel: Modules linked in: binfmt_misc nfs vzethdev vznetdev simfs vzrst vzcpt tun vzdquota vzmon ipv6 vzdev xt_length ipt_ttl xt_tcpmss ipt_TCPMSS xt_multiport xt_limit ipt_tos ipt_REJECT nfsd exportfs lockd nfs_acl sunrpc ppdev parport_pc lp parport button ac battery ipt_MASQUERADE iptable_nat ip_nat ip_conntrack nfnetlink xt_tcpudp iptable_filter iptable_mangle ip_tables x_tables dm_snapshot dm_mirror dm_mod mptctl mptbase loop psmouse evdev serio_raw rtc pcspkr shpchp pci_hotplug ext3 jbd mbcache ide_cd cdrom sd_mod piix megaraid_sas generic ehci_hcd bnx2 uhci_hcd ide_core scsi_mod usbcore thermal processor fan
kernel: Modules linked in: binfmt_misc nfs vzethdev vznetdev simfs vzrst vzcpt tun vzdquota vzmon ipv6 vzdev xt_length ipt_ttl xt_tcpmss ipt_TCPMSS xt_multiport xt_limit ipt_tos ipt_REJECT nfsd exportfs lockd nfs_acl sunrpc ppdev parport_pc lp parport button ac battery ipt_MASQUERADE iptable_nat ip_nat ip_conntrack nfnetlink xt_tcpudp iptable_filter iptable_mangle ip_tables x_tables dm_snapshot dm_mirror dm_mod mptctl mptbase loop psmouse evdev serio_raw rtc pcspkr shpchp pci_hotplug ext3 jbd mbcache ide_cd cdrom sd_mod piix megaraid_sas generic ehci_hcd bnx2 uhci_hcd ide_core scsi_mod usbcore thermal processor fan
kernel: CPU: 1, VCPU: 0.3
kernel: CPU: 1, VCPU: 0.3
kernel: EIP: 0060:[<f8d381b8>]   Not tainted VLI
kernel: EIP: 0060:[<f8d381b8>]   Not tainted VLI
kernel: EFLAGS: 00010246   (2.6.18-14-fza-686 #1 028stab056.1)
kernel: EFLAGS: 00010246   (2.6.18-14-fza-686 #1 028stab056.1)
kernel: EIP is at kill_node+0x11/0xa7 [binfmt_misc]
kernel: EIP is at kill_node+0x11/0xa7 [binfmt_misc]

kernel: eax: f8d3ad70   ebx: 00000000   ecx: 00000000   edx: 00000000
kernel: eax: f8d3ad70   ebx: 00000000   ecx: 00000000   edx: 00000000
kernel: esi: c0365ae4   edi: f7330000   ebp: 00000000   esp: ece23f78
kernel: esi: c0365ae4   edi: f7330000   ebp: 00000000   esp: ece23f78
kernel: ds: 007b   es: 007b   ss: 0068
kernel: ds: 007b   es: 007b   ss: 0068
kernel: Process vzmond/105 (pid: 12338, veid: 0, ti=ece22000 task=ec88a6c0 task.ti=ece22000)
kernel: Process vzmond/105 (pid: 12338, veid: 0, ti=ece22000 task=ec88a6c0 task.ti=ece22000)
kernel: Stack: f7330000 c0365ae4 f7330000 f8d38260 f7330000 f8d38335 f8d3ac60 c0136bba
kernel: Stack: f7330000 c0365ae4 f7330000 f8d38260 f7330000 f8d38335 f8d3ac60 c0136bba
kernel: f7330000 f7330028 c02ca3e0 f8ce55fe ece23fce f7330000 00000000 f8ce5751
kernel: f7330000 f7330028 c02ca3e0 f8ce55fe ece23fce f7330000 00000000 f8ce5751
kernel: ece23fce ece23fce 00000012 f8ce7442 00000069 7a760000 646e6f6d 3530312f
kernel: ece23fce ece23fce 00000012 f8ce7442 00000069 7a760000 646e6f6d 3530312f
kernel: Call Trace:
kernel: Call Trace:
kernel: [<f8d38260>] dm_genocide+0x12/0x22 [binfmt_misc]
kernel: [<f8d38260>] dm_genocide+0x12/0x22 [binfmt_misc]
kernel: [<f8d38335>] ve_binfmt_fini+0x8/0x16 [binfmt_misc]
kernel: [<f8d38335>] ve_binfmt_fini+0x8/0x16 [binfmt_misc]
kernel: [<c0136bba>] ve_hook_iterate_fini+0x4a/0x98
kernel: [<c0136bba>] ve_hook_iterate_fini+0x4a/0x98
kernel: [<f8ce55fe>] env_cleanup+0x2c/0x157 [vzmon]
kernel: [<f8ce55fe>] env_cleanup+0x2c/0x157 [vzmon]
kernel: [<f8ce5751>] vzmond_helper+0x28/0x34 [vzmon]
kernel: [<f8ce5751>] vzmond_helper+0x28/0x34 [vzmon]
kernel: [<f8ce5729>] vzmond_helper+0x0/0x34 [vzmon]
kernel: [<f8ce5729>] vzmond_helper+0x0/0x34 [vzmon]
kernel: [<c0100c7d>] kernel_thread_helper+0x5/0xb
kernel: [<c0100c7d>] kernel_thread_helper+0x5/0xb
*****

even if I stop java apps and manually rmmod -f binfmt_misc before stopping VPS, I obtain

*****
fs kernel: BUG: unable to handle kernel paging request at virtual address f8d3ad08
fs kernel: BUG: unable to handle kernel paging request at virtual address f8d3ad08
fs kernel: printing eip:
fs kernel: printing eip:
fs kernel: c0167ed2
fs kernel: c0167ed2
fs kernel: *pde = 1fa26067
fs kernel: *pde = 1fa26067
fs kernel: *pte = 00000000
fs kernel: *pte = 00000000
fs kernel: Oops: 0000 [#1]
fs kernel: Oops: 0000 [#1]
fs kernel: SMP

fs kernel: SMP
kernel: Modules linked in: nfs vzethdev vznetdev simfs vzrst vzcpt tun vzdquota vzmon ipv6 vzdev xt_length ipt_ttl xt_tcpmss ipt_TCPMSS xt_multiport xt_limit ipt_tos ipt_REJECT nfsd exportfs lockd nfs_acl sunrpc ppdev parport_pc lp parport button ac battery ipt_MASQUERADE iptable_nat ip_nat ip_conntrack nfnetlink xt_tcpudp iptable_filter iptable_mangle ip_tables x_tables dm_snapshot dm_mirror dm_mod mptctl mptbase loop psmouse evdev serio_raw rtc pcspkr shpchp pci_hotplug ext3 jbd mbcache ide_cd cdrom sd_mod piix megaraid_sas generic ehci_hcd bnx2 uhci_hcd ide_core scsi_mod usbcore thermal processor fan
kernel: Modules linked in: nfs vzethdev vznetdev simfs vzrst vzcpt tun vzdquota vzmon ipv6 vzdev xt_length ipt_ttl xt_tcpmss ipt_TCPMSS xt_multiport xt_limit ipt_tos ipt_REJECT nfsd exportfs lockd nfs_acl sunrpc ppdev parport_pc lp parport button ac battery ipt_MASQUERADE iptable_nat ip_nat ip_conntrack nfnetlink xt_tcpudp iptable_filter iptable_mangle ip_tables x_tables dm_snapshot dm_mirror dm_mod mptctl mptbase loop psmouse evdev serio_raw rtc pcspkr shpchp pci_hotplug ext3 jbd mbcache ide_cd cdrom sd_mod piix megaraid_sas generic ehci_hcd bnx2 uhci_hcd ide_core scsi_mod usbcore thermal processor fan
fs kernel: CPU: 2, VCPU: 105.3
fs kernel: CPU: 2, VCPU: 105.3
fs kernel: EIP: 0060:[<c0167ed2>] Tainted: G R VLI
fs kernel: EIP: 0060:[<c0167ed2>] Tainted: G R VLI
fs kernel: EFLAGS: 00010206 (2.6.18-14-fza-686 #1 028stab056.1)
fs kernel: EFLAGS: 00010206 (2.6.18-14-fza-686 #1 028stab056.1)
fs kernel: EIP is at sync_filesystems+0x23/0xcf
fs kernel: EIP is at sync_filesystems+0x23/0xcf
fs kernel: eax: f8d3ace0 ebx: 00000001 ecx: 00000000 edx: dfdc9600
fs kernel: eax: f8d3ace0 ebx: 00000001 ecx: 00000000 edx: dfdc9600
fs kernel: esi: 00000000 edi: bff6bfb2 ebp: f4d28000 esp: f4d29fa0
fs kernel: esi: 00000000 edi: bff6bfb2 ebp: f4d28000 esp: f4d29fa0
fs kernel: ds: 007b es: 007b ss: 0068
fs kernel: ds: 007b es: 007b ss: 0068
fs kernel: Process shutdown (pid: 10291, veid: 105, ti=f4d28000 task=f51b2780 task.ti=f4d28000)
fs kernel: Process shutdown (pid: 10291, veid: 105, ti=f4d28000 task=f51b2780 task.ti=f4d28000)
fs kernel: Stack: 00000001 00000000 c016444b f66be040 c01654d4 00000030 c010296f 00000030
fs kernel: Stack: 00000001 00000000 c016444b f66be040 c01654d4 00000030 c010296f 00000030
fs kernel: ffffffe0 00000002 00000000 bff6bfb2 00000000 00000024 0000007b c010007b
fs kernel: ffffffe0 00000002 00000000 bff6bfb2 00000000 00000024 0000007b c010007b
fs kernel: 00000024 b7ed7f87 00000073 00000246 bff6a92c 0000007b 00000000 00000000
fs kernel: 00000024 b7ed7f87 00000073 00000246 bff6a92c 0000007b 00000000 00000000
fs kernel: Call Trace:
fs kernel: Call Trace:
fs kernel: [<c016444b>] do_sync+0x27/0x55
fs kernel: [<c016444b>] do_sync+0x27/0x55
fs kernel: [<c01654d4>] sys_sync+0x2c/0x49
fs kernel: [<c01654d4>] sys_sync+0x2c/0x49
fs kernel: [<c010296f>] syscall_call+0x7/0xb
fs kernel: [<c010296f>] syscall_call+0x7/0xb
fs kernel: Code: 86 05 68 d6 2c c0 5b c3 56 89 c6 53 b8 c4 d6 2c c0 e8 89 57 11 00 b8 68 d6 2c

c0 e8 d2 65 11 00 8b 15 60 d6 2c c0 eb
fs kernel: Code: 86 05 68 d6 2c c0 5b c3 56 89 c6 53 b8 c4 d6 2c c0 e8 89 57 11 00 b8 68 d6 2c c0 e8 d2 65 11 00 8b 15 60 d6 2c c0 eb
fs kernel: EIP: [<c0167ed2>] sync_filesystems+0x23/0xcf SS:ESP 0068:f4d29fa0
fs kernel: EIP: [<c0167ed2>] sync_filesystems+0x23/0xcf SS:ESP 0068:f4d29fa0
*****

Need java working, what are the options?

Subject: Re: kernel 2.6.18 and binfmt_misc (even unloaded) => kernel panic
Posted by maratrus on Thu, 12 Feb 2009 11:49:17 GMT
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Hello,

the first oops is similar to one described in bug #1028
http://bugzilla.openvz.org/show_bug.cgi?id=1028
Do you have a chance to try the patch mentioned there?
If it does not help or doesn't eliminate all Oopses please file a bug into bugzilla.
Thank you very much for the assistance.

Subject: Re: kernel 2.6.18 and binfmt_misc (even unloaded) => kernel panic
Posted by nyOP on Fri, 13 Feb 2009 22:35:13 GMT
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thanks,
in the meantime I've just discovered by myself that after building with CONFIG_BINFMT_MISC=y (need it for other purposes, so I've tried patching) I've got no kernel panic

by the way, before posting here I googled a bit with "site:openvz.org" but there was no result on bugzilla.openvz.org, seems not indexed

thanks again for confirmation
