Subject: Need OpenVZ with kernel >= 2.6,14
Posted by peterovz on Thu, 22 Dec 2005 11:46:11 GMT
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Hi,

my hw needs at least kernel 2.6.14. any chance to get this working with current patch file and kernel config ?

Thank you, Peter.

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by kir on Thu, 22 Dec 2005 12:42:13 GMT
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my hw needs at least kernel 2.6.14
What makes you think so? If it is some drivers etc. - we have backported a lot of drivers to our kernel, so either just try it out (and file a bug if it is not working), or you can look up your hardware in the HCL.

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by peterovz on Thu, 22 Dec 2005 13:09:29 GMT
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Hi Kir,

many thanks for your reply.

> What makes you think so?

I install current kernel RPM on a Fedora 3 dedicated root server from remote. Then the server does not boot. (The only thing i can see from remote is there is nothing in /var/log/dmesg).

Install procedure gives warning about module raid1 not available (but i thinkt it is build-in).

The hosting company recomend when kernel is changed to change to at least 2.6.14, hw may not work with other, they said.

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by vaverin on Thu, 22 Dec 2005 15:07:37 GMT
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Looks like you have some troubles with initrd image creation.

Try to run mkinitrd manually with --builtin=raid1 option

Thank you,
Vasily Averin

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by dev on Sat, 24 Dec 2005 18:37:42 GMT
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Probably they told you so just because don't want to bother with it...
Please, try what Vasiliy wrote to you and if it doesn't help, then send us an output of lspci and lspci -n commands output, so we could check what hardware is it and by which driver it is supported.

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by Antarion on Wed, 28 Dec 2005 13:44:09 GMT
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I do have exactly the same problem. Unfortunately some of the newer Fujitsu Siemens machines seem to make use of an SiS SATA chipset which is only supported in >2.6.14(.2?).

Theres also a bug report in bugzilla, #81. However i'd very much appreciate a quick fix for this problem...

sher:~# lspci
0000:00:00.0 Host bridge: Silicon Integrated Systems [SiS]: Unknown device 0761 (rev 01)
0000:00:01.0 PCI bridge: Silicon Integrated Systems [SiS] SG86C202
0000:00:02.0 ISA bridge: Silicon Integrated Systems [SiS] SiS965 [MuTIOL Media IO] (rev 48)
0000:00:02.5 IDE interface: Silicon Integrated Systems [SiS] 5513 [IDE] (rev 01)
0000:00:03.0 USB Controller: Silicon Integrated Systems [SiS] USB 1.0 Controller (rev 0f)
0000:00:03.1 USB Controller: Silicon Integrated Systems [SiS] USB 1.0 Controller (rev 0f)
0000:00:03.2 USB Controller: Silicon Integrated Systems [SiS] USB 1.0 Controller (rev 0f)
0000:00:03.3 USB Controller: Silicon Integrated Systems [SiS] USB 2.0 Controller
0000:00:05.0 IDE interface: Silicon Integrated Systems [SiS]: Unknown device 0182 (rev 01)
0000:00:06.0 PCI bridge: Silicon Integrated Systems [SiS]: Unknown device 000a
0000:00:09.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8169 Gigabit Ethernet (rev 10)
0000:00:1f.0 PCI bridge: Silicon Integrated Systems [SiS]: Unknown device 0004
0000:01:00.0 VGA compatible controller: Silicon Integrated Systems [SiS] 661FX/M661FX/M661MX/741/M741/760/M760 PCI/AGP (rev
03)

sher:~# lspci -v
0000:00:00.0 Host bridge: Silicon Integrated Systems [SiS]: Unknown device 0761 (rev 01)
	Subsystem: Unknown device 1734:1099
	Flags: bus master, medium devsel, latency 64
	Memory at f8000000 (32-bit, non-prefetchable) [size=32M]
	Capabilities: [a0] AGP version 3.0
	Capabilities: [d0] #08 [0220]
	Capabilities: [f0] #08 [8000]
	Capabilities: [5c] #08 [8825]

0000:00:01.0 PCI bridge: Silicon Integrated Systems [SiS] SG86C202 (prog-if 00 [Normal decode])
	Flags: bus master, 66MHz, medium devsel, latency 64
	Bus: primary=00, secondary=01, subordinate=01, sec-latency=68
	I/O behind bridge: 00002000-00002fff
	Memory behind bridge: fa100000-fa1fffff
	Prefetchable memory behind bridge: f0000000-f7ffffff
	Capabilities: [a4] #08 [9000]

0000:00:02.0 ISA bridge: Silicon Integrated Systems [SiS] SiS965 [MuTIOL Media IO] (rev 48)
	Flags: bus master, medium devsel, latency 0

0000:00:02.5 IDE interface: Silicon Integrated Systems [SiS] 5513 [IDE] (rev 01) (prog-if 8a [Master SecP PriP])
	Subsystem: Unknown device 1734:1095
	Flags: bus master, medium devsel, latency 128, IRQ 255
	I/O ports at <ignored>
	I/O ports at <ignored>
	I/O ports at <ignored>
	I/O ports at <ignored>
	I/O ports at 1480 [size=16]
	Capabilities: [58] Power Management version 2

0000:00:03.0 USB Controller: Silicon Integrated Systems [SiS] USB 1.0 Controller (rev 0f) (prog-if 10 [OHCI])
	Subsystem: Unknown device 1734:1095
	Flags: bus master, medium devsel, latency 64, IRQ 9
	Memory at fa000000 (32-bit, non-prefetchable) [size=4K]

0000:00:03.1 USB Controller: Silicon Integrated Systems [SiS] USB 1.0 Controller (rev 0f) (prog-if 10 [OHCI])
	Subsystem: Unknown device 1734:1095
	Flags: bus master, medium devsel, latency 64, IRQ 11
	Memory at fa001000 (32-bit, non-prefetchable) [size=4K]

0000:00:03.2 USB Controller: Silicon Integrated Systems [SiS] USB 1.0 Controller (rev 0f) (prog-if 10 [OHCI])
	Subsystem: Unknown device 1734:1095

Flags: bus master, medium devsel, latency 64, IRQ 10
Memory at fa002000 (32-bit, non-prefetchable) [size=4K]

0000:00:03.3 USB Controller: Silicon Integrated Systems [SiS] USB 2.0 Controller (prog-if 20 [EHCI])
Subsystem: Unknown device 1734:1095
Flags: bus master, medium devsel, latency 64, IRQ 5
Memory at fa003000 (32-bit, non-prefetchable) [size=4K]
Capabilities: [50] Power Management version 2

0000:00:05.0 IDE interface: Silicon Integrated Systems [SiS]: Unknown device 0182 (rev 01) (prog-if 8f [Master SecP SecO PriP
PriO])
Subsystem: Unknown device 1734:1095
Flags: bus master, medium devsel, latency 64, IRQ 9
I/O ports at 14b0 [size=8]
I/O ports at 14a4 [size=4]
I/O ports at 14a8 [size=8]
I/O ports at 14a0 [size=4]
I/O ports at 1490 [size=16]
I/O ports at 1400 [size=128]
Capabilities: [58] Power Management version 2

0000:00:06.0 PCI bridge: Silicon Integrated Systems [SiS]: Unknown device 000a (prog-if 00 [Normal decode])
Flags: bus master, fast devsel, latency 0
Bus: primary=00, secondary=02, subordinate=02, sec-latency=0
Capabilities: [b0] #0d [0000]
Capabilities: [c0] Message Signalled Interrupts: 64bit- Queue=0/0 Enable+
Capabilities: [d0] #10 [0141]
Capabilities: [f4] Power Management version 2

0000:00:09.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8169 Gigabit Ethernet (rev 10)
Subsystem: Unknown device 1734:1091
Flags: bus master, 66MHz, medium devsel, latency 64, IRQ 9
I/O ports at 1000 [size=256]
Memory at fa004000 (32-bit, non-prefetchable) [size=256]
Capabilities: [dc] Power Management version 2

0000:00:1f.0 PCI bridge: Silicon Integrated Systems [SiS]: Unknown device 0004 (prog-if 00 [Normal decode])
Flags: bus master, fast devsel, latency 0
Bus: primary=00, secondary=03, subordinate=03, sec-latency=0
Capabilities: [d0] #10 [0141]
Capabilities: [bc] #08 [a802]
Capabilities: [a0] Message Signalled Interrupts: 64bit- Queue=0/0 Enable+
Capabilities: [f4] Power Management version 2

0000:01:00.0 VGA compatible controller: Silicon Integrated Systems [SiS]
661FX/M661FX/M661MX/741/M741/760/M760 PCI/AGP (rev 03
) (prog-if 00 [VGA])
Subsystem: Unknown device 1734:1099
Flags: 66MHz, medium devsel, IRQ 11
BIST result: 00
Memory at f0000000 (32-bit, prefetchable) [size=128M]
Memory at fa100000 (32-bit, non-prefetchable) [size=128K]
I/O ports at 2000 [size=128]
Capabilities: [40] Power Management version 2
Capabilities: [50] AGP version 3.0

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by vaverin on Wed, 28 Dec 2005 13:53:55 GMT
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Antarion,
could you please send us lspci -n output and tell us the version of driver with support your hardware.

thank you,
Vasily Averin

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by Antarion on Wed, 28 Dec 2005 14:16:21 GMT
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Hello Vasily,

heres the lspci -n output as requested:

0000:00:00.0 0600: 1039:0761 (rev 01)
0000:00:01.0 0604: 1039:0002
0000:00:02.0 0601: 1039:0965 (rev 48)
0000:00:02.5 0101: 1039:5513 (rev 01)
0000:00:03.0 0c03: 1039:7001 (rev 0f)
0000:00:03.1 0c03: 1039:7001 (rev 0f)
0000:00:03.2 0c03: 1039:7001 (rev 0f)
0000:00:03.3 0c03: 1039:7002
0000:00:05.0 0101: 1039:0182 (rev 01)
0000:00:06.0 0604: 1039:000a
0000:00:09.0 0200: 10ec:8169 (rev 10)

0000:00:1f.0 0604: 1039:0004
0000:01:00.0 0300: 1039:6330 (rev 03)

The problem is related to the SiS 182 (SATA) Chipset, see:
http://bugme.osdl.org/show_bug.cgi?id=4192
http://www.kernel.org/pub/linux/kernel/v2.6/testing/ChangeLo g-2.6.14-rc1

The first kernel i actually got the SiS 182 chipset to work with is 2.6.14, the driver used is sata_sis.

(Also posted this to bugzilla for future reference)

-Torsten

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by dev on Wed, 28 Dec 2005 14:29:12 GMT
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BTW, does RHEL4 update 2 work with your hardware?

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by Antarion on Wed, 28 Dec 2005 14:44:12 GMT
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I've not been able to try an installation with RHEL4 yet.
Current CentOS failed miserably though.

-Torsten

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by vaverin on Wed, 28 Dec 2005 15:03:31 GMT
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hello Torsten,

Our default policy is do not update any drivers over than ones from latest RHEL4 kernel due stability reasons.

But you can backport this driver himself. If the driver will work correct on your node, please send us the patch and probably we'll include it into our next kernels.

Thank you,
Vasily Averin

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by dev on Wed, 28 Dec 2005 16:03:30 GMT
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Antario,
can you please try these patches from OSDL bugzilla? if they help we'll definetely include them in next official kernel build.
If you are unfamiliar with kernel/patching/building, I can help you to build it though not very quickly
feel free to ask!

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by Antarion on Wed, 28 Dec 2005 19:54:01 GMT
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Dev,

the mandriva patch (http://bugme.osdl.org/attachment.cgi?id=6133&action=view) applied perfectly against an ovz patched 2.6.8 kernel. The System also seems to recognize the sata controller as well as the attached harddisks.

However it immediately panics after starting up the raid which is, i believe, related to some sillyness on my end.

If i can get the box to boot tomorrow i'll get back to you lot within the next few days.

Thanks a lot!

-Torsten

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by Antarion on Mon, 02 Jan 2006 14:46:21 GMT
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Hello,

after some days of testing the system seems to work stable with the supplied patch above. I'll be performing some additional testing, if you wish to run some test on the hostnode please drop me a PM.

sata_sis: Detected SiS 182 chipset
ata1: SATA max UDMA/133 cmd 0x14B0 ctl 0x14A6 bmdma 0x1490 irq 17
ata2: SATA max UDMA/133 cmd 0x14A8 ctl 0x14A2 bmdma 0x1498 irq 17
ata1: dev 0 cfg 49:2f00 82:7c6b 83:7f09 84:4673 85:7c69 86:3e21 87:4663 88:007f
ata1: dev 0 ATA, max UDMA/133, 398297088 sectors: lba48
ata1: dev 0 configured for UDMA/133

scsi0 : sata_sis
ata2: dev 0 cfg 49:2f00 82:7c6b 83:7f09 84:4673 85:7c69 86:3e21 87:4663 88:007f
ata2: dev 0 ATA, max UDMA/133, 398297088 sectors: lba48
ata2: dev 0 configured for UDMA/133
scsi1 : sata_sis
Using anticipatory io scheduler
  Vendor: ATA   Model: Maxtor 6L200M0   Rev: BACE
  Type: Direct-Access   ANSI SCSI revision: 05
  Vendor: ATA   Model: Maxtor 6L200M0   Rev: BACE
  Type: Direct-Access   ANSI SCSI revision: 05

-Torsten

Subject: Re: Need OpenVZ with kernel >= 2.6,14
Posted by dev on Mon, 02 Jan 2006 18:00:28 GMT
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Thanks a lot for testing!
I will include the patch in next kernel if everything is ok. Please, report results of your testing when finished.
