
Subject: Sparc, Debian and OpenVZ
Posted by [slybob](#) **on Thu, 17 May 2007 13:06:03 GMT**
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Hey

I have been playing with openVZ for a few months on a couple of okay PC's(256mb athlon \ 512mb 1.6ghz celeron) on domestic adsl connections. I have been offered a Sunfire V210 (2x UltraSPARC IIIi, 2 or 4 gb ram, 2x 37 Gb RaidM scsi. 8mb pipe.) in a datacentre in london so would like to attempt some more advanced virtualisation on it with a view to setting up a proof of concept. I understand there is some support for sparc but I have been unable to find any real data about how to get this working.

Get control of the computer monday, pre installed with debian 3.1 (minimal)

Cheers,

Andy

Subject: Re: Sparc, Debian and OpenVZ
Posted by [dev](#) **on Thu, 17 May 2007 13:52:59 GMT**
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I was adding SPARC64 support to 2.6.18 kernel.
So you can take 2.6.18-OVZ kernel from site, compile it and install. OVZ tools should compile fine as well.
After that all you need is a template for SPARC64 distro and that's it.

Feel free to ask for any help or assistance.

Subject: Re: Sparc, Debian and OpenVZ
Posted by [slybob](#) **on Thu, 17 May 2007 14:13:58 GMT**
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Sounds good. Does that stop us migrating a SPARC64 VE to IBM metal?

Subject: Re: Sparc, Debian and OpenVZ
Posted by [dev](#) **on Thu, 17 May 2007 14:17:11 GMT**
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Sorry, can't catch the question... What do you mean?
Whether it is possible to migrate VE from SPARC to IBM PC?

impossible, these platforms have different CPU command sets.
Or have you meant something else?

Subject: Re: Sparc, Debian and OpenVZ
Posted by [slybob](#) on Thu, 17 May 2007 14:18:51 GMT
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no, that was the question, thanks.

Subject: Re: Sparc, Debian and OpenVZ
Posted by [slybob](#) on Thu, 17 May 2007 16:47:35 GMT
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are you aware of any sparc64 templates?

Subject: Re: Sparc, Debian and OpenVZ
Posted by [slybob](#) on Thu, 17 May 2007 16:52:41 GMT
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just found em

<http://openvz.org/download/template/cache/>

Subject: Re: Sparc, Debian and OpenVZ
Posted by [dev](#) on Fri, 18 May 2007 07:23:29 GMT
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yep, that's it
debian/ubuntu templates are quite easy to create.
RHEL/CentOS/fedora AFAIK do not support SPARC ()

Subject: Re: Sparc, Debian and OpenVZ
Posted by [slybob](#) on Mon, 21 May 2007 15:04:28 GMT
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Im a little confused about getting this going..

http://wiki.openvz.org/Kernel_build#Rebuilding_kernel_from_sources

This how to explains how to patch the kernel with the patch supplied as a .gz but the sparc patch is supplied as an rpm.

I assume kernel-2.6.18-ovz028stab031.1.src.rpm is my puppy. Its an twin processor UltraSpark III with 2gb of ram.

How do I get this rpm into debian

uname -a

Linux debian 2.6.18-4-sparc64-smp #1 SMP Mon Mar 26 13:14:08 UTC 2007 sparc64 GNU/Linux

thanks,

Subject: Re: Sparc, Debian and OpenVZ

Posted by [dev](#) on Mon, 21 May 2007 15:12:13 GMT

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Everything available on downloads w/o RPM as well.

Take this patch: <http://download.openvz.org/kernel/branches/2.6.18/028stab031.1/patches/patch-ovz028stab031.1-combined.gz>

and apply on mainstream 2.6.18 kernel downloaded from kernel.org from here:
<http://www.kernel.org/pub/linux/kernel/v2.6/linux-2.6.18.tar.bz2>

the problem in config only

take your debian/ubuntu config, put it as .config and run:

make oldconfig

then select all OpenVZ options as described http://wiki.openvz.org/Kernel_configuration

Subject: Re: Sparc, Debian and OpenVZ

Posted by [slybob](#) on Mon, 21 May 2007 16:08:46 GMT

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last couple of commands, it was asking me for input on "file to patch:"

Cheers,

```
debian:/usr/src/kernel-2.6.18# gzip -dc patch-ovz028stab031.1-combined.gz | patch -p1
patching file COPYING.SWsoft
can't find file to patch at input line 358
Perhaps you used the wrong -p or --strip option?
The text leading up to this was:
```

```
-----|diff -uprN linux-2.6.18/Documentation/dontdiff linux-2.6.18.ovz/Documentation/dontdiff
|--- linux-2.6.18/Documentation/dontdiff      2006-09-19 23:42:06.000000000 -0400
|+++ linux-2.6.18.ovz/Documentation/dontdiff  2007-05-02 09:32:31.000000000 -0400
-----
```

File to patch:

```
debian:/usr/src/kernel-2.6.18# ls -l
total 47348
-rw-r--r-- 1 root root 18494 2007-05-21 17:05 COPYING.SWsoft
drwxr-xr-x 3 root root 4096 2007-05-21 15:44 debian
-rw-rw-rw- 1 root root 39115 2007-04-26 17:28 kernel-2.6.18-i686.config.ovz
-rw-rw-rw- 1 root root 39201 2007-04-26 17:28 kernel-2.6.18-i686-enterprise.config.ovz
-rw-rw-rw- 1 root root 39163 2007-04-26 17:28 kernel-2.6.18-i686-smp.config.ovz
-rw-rw-rw- 1 root root 35722 2007-04-26 17:28 kernel-2.6.18-ia64.config.ovz
-rw-rw-rw- 1 root root 35886 2007-04-26 17:28 kernel-2.6.18-ppc64.config.ovz
-rw-rw-rw- 1 root root 35881 2007-04-26 17:28 kernel-2.6.18-x86_64.config.ovz
-rw-rw-rw- 1 root root 35958 2007-04-26 17:28 kernel-2.6.18-x86_64-smp.config.ovz
-rw-rw-rw- 1 root root 22676 2007-04-26 17:29 kernel-ovz.spec
-rw-rw-rw- 1 root root 2596 2007-04-26 17:28 linux-2.6.0-nonintconfig.patch
-rw-rw-rw- 1 root root 695322 2007-04-26 17:28 linux-2.6.17-aic94xx-1.0.2.patch
-rw-rw-rw- 1 root root 657872 2007-04-26 17:28 linux-2.6.18-drbd-0.7.22-0.8.0.patch
-rw-rw-rw- 1 root root 42796 2007-04-26 17:28 linux-2.6.18-drbd-8.0.0-8.0.2.patch
-rw-rw-rw- 1 root root 41863580 2007-04-26 17:28 linux-2.6.18.tar.bz2
-rw-rw-rw- 1 root root 35062 2007-04-26 17:28 linux-2.6.8.1-drbd-0.7.19-0.7.20.patch
-rw-rw-rw- 1 root root 375316 2007-04-26 17:28 linux-2.6.8.1-drbd-0.7.19.patch
-rw-rw-rw- 1 root root 56808 2007-04-26 17:28 linux-2.6.9-drbd-0.7.20-0.7.22.patch
-rw-rw-rw- 1 root root 3272613 2007-04-26 17:29 patch-028stab031-core
-rw-r--r-- 1 root root 1078894 2007-05-02 14:32 patch-ovz028stab031.1-combined.gz
debian:/usr/src/kernel-2.6.18#
```

Subject: Re: Sparc, Debian and OpenVZ
Posted by [slybob](#) on Mon, 21 May 2007 17:34:12 GMT

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Hi, sorry, found my way out of that little maze This is my first kernel compile so please excuse me. I couldn't find an existing configure file that bore any resemblance to the .configure generated by make oldconfig command.

running make after make oldconfig with the options specified in
http://wiki.openvz.org/Kernel_configuration produced the following error.

```
kernel/cpt/cpt_context.c:134:2: error: #error Arch is not supported
make[2]: *** [kernel/cpt/cpt_context.o] Error 1
make[1]: *** [kernel/cpt] Error 2
make: *** [kernel] Error 2
```

Cheers,

Subject: Re: Sparc, Debian and OpenVZ
Posted by [dev](#) on Tue, 22 May 2007 06:54:30 GMT
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No problem. You are welcom.

Fix for the first problem (patch doesn't apply) - you should apply in to *extracted* kernel sources. I guess you finally resolved it yourself

Fix for this problem: check your .config file and remove CONFIG_CPT=m option. it should be unset, since checkpointing feature is not supported on SPARC64.

Subject: Re: Sparc, Debian and OpenVZ
Posted by [dev](#) on Tue, 22 May 2007 06:55:10 GMT
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you can send me your .config file via email dev at openvz.org so I can review it and check if anything else needs fixing.
