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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

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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.

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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?

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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?

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

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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.

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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?

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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/>

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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 quire easy to create.  
RHEL/CentOS/fedora AFAIK do not support SPARC ((

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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..

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[http://wiki.openvz.org/Kernel\\_build#Rebuilding\\_kernel\\_from\\_sources](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 IIIi 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,

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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](http://wiki.openvz.org/Kernel_configuration)

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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#
```

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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](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,

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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.

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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](mailto:dev@openvz.org) so I can review it and check if anything else needs fixing.

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