Subject: kernel-debuginfo ovz-kernel; kernel panic
Posted by paix on Fri, 25 Mar 2011 12:00:33 GMT
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Hi, all.
A few questions.

1. Does anybody know, where I can obtain the kernel-debuginfo and kernel-debuginfo-common packages for stable ovz-kernel ?
(2.6.18-238.5.1.el5.028stab085.2)

2.
After upgrading the server for 16G ram, I started to see a lot of kernel panics.

The hardware is desktop grade,
AMD Phenom(tm) II X4 945 Processor
MSI 770-C45
16G of mem.

OS: CentOS 5.5 with the latest openvz kernel.

However, I've checked the mem with memtest86+, and it shows no errors.
And I've successfully got a kernel dump (with kdump), so it seems to be related to some software errors.

With 8G of mem, the server was running 1 year without any errors.

Any suggestions ?

PS. also in the messages:
kernel: amd64_edac: probe of 0000:00:18.2 failed with error -22
kernel: EDAC amd64_edac: Ver: 3.2.0 May 18 2010
kernel: EDAC amd64: This node reports that Memory ECC is currently disabled, set F3x44[22] (0000:00:18.3).
kernel: EDAC amd64: WARNING: ECC is disabled by BIOS. Module will NOT be loaded.

Subject: Re: kernel-debuginfo ovz-kernel; kernel panic
Posted by Vasily Averin on Fri, 25 Mar 2011 15:14:40 GMT
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On 03/25/2011 03:00 PM, Sergej Kandyla wrote:
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>
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> kernel-debuginfo-common packages for stable ovz-kernel ?

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I'm sorry, build of debuginfo packages is currently broken in spec.
however you can rebuild kernel with default config with enabled debuginfo option

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> Any suggestions ?

Please catch kernel panic messages and report to bugzilla.openvz.org

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> kernel: EDAC amd64: WARNING: ECC is disabled by BIOS. Module will NOT be loaded.

IMHO it isn't fatal messages, you can ignore it.

thank you,
Vasily Averin

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Subject: Re: kernel-debuginfo ovz-kernel; kernel panic
Posted by paix on Sat, 26 Mar 2011 14:19:03 GMT
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Vasily Averin wrote:
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> I'm sorry, build of debuginfo packages is currently broken in spec.
> however you can rebuild kernel with default config with enabled

> debuginfo option

Thanks for your reply.

1. First I've realized that the newest version of ovz kernel  has appeared.
And also there is an ovzkernel-debug package present.

Could you tell me,  what the package  ovzkernel-debug  means ?
Will it enough for debugging the kernel coredump  with crash utility ?

2.  Following your advice,
I've  rebuilded the kernel with the next way:

yum install auto-buildrequires gcc redhat-rpm-config
wget current_kernel_src.rpm
rpm -ivh current_kernel_src.rpm

cd /usr/src/redhat/SPECS/

set in kernel-ovz.spec:
%define _without_debuginfo 0

rpmbuild -bp kernel-ovz.spec
rpmbuild -ba --target=`uname -i` kernel-ovz.spec

And currently I have a choose what kernel version I need to install:
# ls -1 ../RPMS/x86_64/
ovzkernel-2.6.18-238.5.1.el5.028stab085.3.x86_64.rpm
ovzkernel-debug-2.6.18-238.5.1.el5.028stab085.3.x86_64.rpm
ovzkernel-devel-2.6.18-238.5.1.el5.028stab085.3.x86_64.rpm
ovzkernel-xen-2.6.18-238.5.1.el5.028stab085.3.x86_64.rpm
 ovzkernel-xen-devel-2.6.18-238.5.1.el5.028stab085.3.x86_64.r pm

And I'm a little confused:

use the official  openvz builded   ovzkernel-debug  \  ovzkernel
or  install my own builded kernel  ovzkernel  or ovzkernel-debug ...

3. It's good for current versions of the kernel,  however
how I can  analize the obtained vmcores from previous kernels?
To analyze the vmcore with "crash" I  need a corresponding  mapfile for
that kernel versions.
Or there is not a big sense to do this?

>> 2.
>> After upgrading the server for 16G ram, I started to see a lot of
>> kernel panics.
>>
>>
> Please catch kernel panic messages and report to bugzilla.openvz.org
>
It says something like this:

RIP [<ffffffff802451ae>] rt_check_expire +0xea/0x23b
Kernel panic - not syncing: Fatal exeption

I'm not sure that this will be helpful  without  analyzing of kernel dump.

Thanks a lot!

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