Subject: Ballpark resource requirement for debian apt-get
Posted by jarcher on Wed, 05 Dec 2007 06:20:35 GMT
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Hi All...

I have reviewed the docs concerning user_beancounters and resource allocation. It was my plan to have a bunch of very light VPSs doing certain things. I have noticed that Debian Etch runs nicely under OpenVZ and I have a bunch of VPSs running it, but apt-get seems to need an awful lot of kernel memory.

Has anyone else noticed this? What settings do you use when you need to run apt-get?

Thanks...

Subject: Re: Ballpark resource requirement for debian apt-get
Posted by vaverin on Wed, 05 Dec 2007 10:15:22 GMT
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Hi Jim,

/proc/ub/<VEID>/kmem_debug shows more detailed statistic about objected charged to kmemsize. I hope it will help You to understand why have resources shortage when it starts apt-get.

However anyway you will need to increase kmemsize limits -- at least I do not see any ways to exclude it.

Thank you,
Vasily Averin

Subject: Re: Re: Ballpark resource requirement for debian apt-get
Posted by jarcher on Wed, 05 Dec 2007 21:36:29 GMT
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Thanks Vasily...

I have increased the kmemsize limit, as that was the only way to resolve the issue. It surprises me that apt-get needs more resources than many of the other apps I run. How much of a negative impactdoes increasing kmemsize have on the rest of the system? I run AMD64 Etch, but it kmemsize still a limited resource?

--On Wednesday, December 05, 2007 1:15 PM +0300 vaverin <vvs@sw.ru> wrote:

>
>
> Hi Jim,
>
> /proc/ub/<VEID>/kmem_debug shows more detailed statistic about objected
> charged to kmemsize. I hope it will help You to understand why have
> resources shortage when it starts apt-get.
>
> However anyway you will need to increase kmemsize limits -- at least I do
> not see any ways to exclude it.
>
> Thank you,
> Vasily Averin

Subject: Re: Re: Ballpark resource requirement for debian apt-get
Posted by vaverin on Thu, 06 Dec 2007 06:51:57 GMT
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Hi Jim,

kmem_debug output can clarify this situation.
I expect it happens because apt-get open many files. Each open files and directories eats kmemsize for disk-related structures.

For x86_64 kernels sum of all VE's kmemsize and allsoketbufs limits should not be greather than 40% RAM on your node.
You can find some more details about UBC configuration in our Wiki:
http://wiki.openvz.org/UBC_systemwide_configuration.

thank you,
Vasily Averin
