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Subject: Using OpenVZ containers to control cpu for HN processes

Posted by [bjdea1](#) on Sun, 15 Feb 2009 02:47:21 GMT

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Hi,

I'm not really wanting to setup virtual servers. I am simply wanting to control/limit process cpu allowances on a standard server (non virtual server).

The standard scheduling regimes in Linux fall short when it comes to controlling how much cpu % a process is given.

Can this be achieved with the openVZ kernel? Is there anyway I could run something like:

cpulimit PID 10%

(I don't want to use the cpulimit software as its not true cpu time sharing, it simply sends signals to turn processes on and off. I'm looking for a OpenVZ way of achieving the same thing).

So basically can I use openVZ containers to isolate a process and restrict its cpu usage - while still letting that process be able to access the HN filesystem - like a standard process on a standard server?

Any such response/help would be GREATLY appreciated.

Thanks

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Subject: Re: Using OpenVZ containers to control cpu for HN processes

Posted by [piavlo](#) on Sun, 15 Feb 2009 09:39:13 GMT

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1) You can use kernel cpusets

<http://www.mjmwired.net/kernel/Documentation/cpusets.txt>

a tool that makes use of cpusets easy can be found here -

<http://developer.novell.com/wiki/index.php/Cpuset>

2) You can use the now default linux CFQ scheduler to schedule

based on control groups using the libcg - <http://libcg.sourceforge.net/>

The lxc containers project <http://lxc.sourceforge.net/> - is utilizing libcg and other recently included in mainline kernel

containerization parts. AFAIU this is the main contributor project whose container implementations are being included the mainline kernel.

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Subject: Re: Using OpenVZ containers to control cpu for HN processes

Posted by [bjdea1](#) on Sun, 15 Feb 2009 10:58:44 GMT

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Thank you very much for this information, really appreciate it.

Control groups looks like exactly what I'm wanting.

But I have done so much searching for any kind of guide on how to activate cgroups.

Am I correct in assuming its a kernel patch and needs to be added at compile time? Or can it be added as a module? Or is it already in the latest kernel?

How do I know if I have it and how do I set it up?

I have the latest kernel, how do I active cgroups?

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Subject: Re: Using OpenVZ containers to control cpu for HN processes

Posted by [bjdea1](#) on Sun, 15 Feb 2009 11:11:44 GMT

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Actually I think I just found out why I couldn't get it working.

I didn't select it during kernel compile time, wooops

I am compiling a new kernel now, see how it goes.

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Subject: Re: Using OpenVZ containers to control cpu for HN processes

Posted by [bjdea1](#) on Sun, 15 Feb 2009 13:10:53 GMT

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Ok it is working now.

Thank you very much for pointing me in the right direction.

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