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Subject: Re: [PATCHSET] 2.6.20-lxc8

Posted by [ebiederm](#) on Wed, 21 Mar 2007 18:12:45 GMT

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Daniel Lezcano <dlezcano@fr.ibm.com> writes:

> Hi Herbert,  
>  
> I played with the L2 namespace patchset from Eric Biederman, I did some  
> benchmarking with netperf:  
>  
> With 2 hosts, Intel EM64T bipro HT / 2,4 GHz , 4Go ram and GB network.  
> Host A is running the netserver on a RH4 kernel 2.6.9-42  
> Host B is running the netperf client inside and outside the container with the  
> command:  
> netperf -H HostA -c -l 20 -n 2 -p 12865  
>  
> Results are:  
> inside the container:  
> Throughput : 940.39 Mbit/s CPU usage : 15.80 %  
>  
> outside the container:  
> Throughput : 941.34 Mbits/s CPU usage : 5.80 %

Could you clarify a little bit what you mean by inside the container  
and outside the container? In particular was the outside the container case  
in a kernel that had the network namespace compiled in?

Could you also clarify how you have setup networking inside the container  
and going to the outside world?

> I did the test again with 50 containers. I created them one by one having one  
> running netperf and the other being idle.  
> Each time I created a container, I rerun netperf. To be more explicit, I created  
> 1 container, run netperf inside it and blocked it on a fifo reading, I created a  
> second container, run netperf inside it and blocked it, and son on ... to 50  
> containers. The benchmarking result are the same as running one container, so I  
> guess it scales well.  
>  
> There are a lot of scenarii to do for benchmarking, for example, running netperf  
> in each container in the same time and look how it behaves.  
> I am profiling the kernel to look where the cpu overhead is.

Thanks. This is simple enough that at least part of this should be easy  
to reproduce. Once things settle down a little I'm interested in tracking  
the cpu usage if someone else hasn't done it already.

Eric

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Containers mailing list  
Containers@lists.linux-foundation.org  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

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