
Subject: Re: [PATCHSET] 2.6.20-lxc8

Posted by [Daniel Lezcano](#) on Wed, 21 Mar 2007 09:47:55 GMT

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Herbert Poetzl wrote:

> On Tue, Mar 20, 2007 at 09:53:01PM +0100, Cedric Le Goater wrote:

>

>> All,

>>

>> We've been gathering, porting and testing a whole bunch of patchsets
>> related to namespaces, containers and resource management in what
>> we call the -lxc patchset.

>>

>

> great!

>

[cut]

>> * generic Process containers from Paul Menage <menage@google.com>

>> * namespace entering from Serge E. Hallyn <serue@us.ibm.com>

>> * resource controllers based on process containers from Pavel Emelianov <xemul@sw.ru>

>> * multiple /proc (required for pid namespace) from Dave Hansen <hansendc@us.ibm.com>

>> * pid namespace from Sukadev Bhattiprolu <sukadev@us.ibm.com>

>> * L2 network namespace from Eric W. Biederman <ebiederm@xmission.com>

>> * misc fixes and cleanups from others (sorry for not mentioning)

>>

>> and it's giving some good results on common platforms like i386 and

>> x86_64.

>>

>

> what _are_ the good results? do you have performance

> results or other interesting data on it? if so, where

> can it be found?

>

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 %

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.

Regards.

-- Daniel

Containers mailing list

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