

> Hi,
>
> A first round about virtualisation benchmarks can be found here:
> <http://lxc.sourceforge.net/bench/>

very interesting results, tx ...

> These benchmarks run with vanilla kernels and the patched versions of
> well know virtualisation solutions: VServer and OpenVZ. Some benches
> also run inside the virtual 'guest' but we ran into trouble trying to
> run some of them... probably virtual 'guest' configuration issues...
> we will try to fix them... The metacluster migration solution
> (formerly a Meiosys company product) was added as it seems that the
> checkpoint/restart topic is close to the virtualisation's one (OpenVZ
> now provides a checkpoint/restart capability).

from the tests:

"For benches inside real 'guest' nodes (OpenVZ/VServer) you should
take into account that the FS tested is not the 'host' node one's."

at least for Linux-VServer it should not be hard to avoid the
chroot/filesystem namespace part and have it run on the host fs.
a bind mount into the guest might do the trick too, if you need
help to accomplish that, just let me know ...

> For the moment, benchmarks only ran on xeon platform but we expect
> more architecture soon. Besides the 'classic' benches used, more
> network oriented benches will be added. Netpipe between two virtual
> 'guests' for example. We hope we will be able to provide results
> concerning the virtual 'guest' scalability, running several 'guest'
> at the same time.

best,
Herbert

> Best regards,
>

> > Hello !

> >

> > I'm part of a team of IBMers working on lightweight containers and we
> > are going to start a new test campaign. Candidates are vserver,
> > vserver context, namespaces (being pushed upstream), openvz, mcr (our

> > simple container dedicated to migration) and eventually xen.

> >

> > We will focus on the performance overhead but we are also interested in

> > checkpoint/restart and live migration. A last topic would be how well

> > the

> > resource management criteria are met, but that's extra for the moment.

> >

> > We plan on measuring performance overhead by comparing the results on

> > a vanilla kernel with a partial and with a complete virtual

> > environment. By partial, we mean the patched kernel and a 'namespace'

> > virtualisation.

> >

> > Test tools

> > -----

> > o For network performance :

> >

> > * netpipe (<http://www.scl.ameslab.gov/netpipe/>)

> > * netperf (<http://www.netperf.org/netperf/NetperfPage.html>)

> > * tbench (<http://samba.org/ftp/tridge/dbench/README>)

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> > o Filesystem :

> >

> > * dbench (<http://samba.org/ftp/tridge/dbench/README>)

> > * iotop (<http://www.iotop.org/>)

> >

> > o General

> >

> > * kernbench (<http://ck.kolivas.org/kernbench/>) stress cpu and

> > filesystem through kernel compilation

> > * More 'real world' application could be used, feel free to submit

> > candidates...

> >

> > We have experience on C/R and migration so we'll start with our own

> > scenario, migrating oracle under load. The load is generated by DOTS

> > (<http://ltp.sourceforge.net/dotshow>) We ran into trouble trying to run sto.php).

> >

> > If you could provided us some material on what has already been done :

> > URL, bench tools, scenarios. We'll try to compile them in. configuration

> > hints and tuning are most welcome if they are reasonable.

> >

> > Results, tools, scenarios will be published on lxc.sf.net . We will

> > set up the testing environment so as to be able to accept new

> > versions, patches, test tools and rerun the all on demand. Results,

> > tools, scenarios will be published on lxc.sf.net.

> >

> > thanks !

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> > Clement,

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> Vserver mailing list

> Vserver@list.linux-vserver.org

> <http://list.linux-vserver.org/mailman/listinfo/vserver>
