Subject: [PATCHSET] 2.6.20-lxc8
Posted by Cedric Le Goater on Tue, 20 Mar 2007 20:53:01 GMT

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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.

The purpose of the -lxc patchset is to experiment and test a "fully"
featured linux container solution. this is a large topic but resource
management and container mobility are the main high level features we
are looking at.

We're not there yet but we've done a lot of progress in 2006 and early
2007. It seems a good time to share some this work and see :

 * which patchsets can be proposed to andrew
 * which patchsets requires more work
 * which can be dropped
 * what kind of cleanups are still required
 * etc.

The latest release 2.6.20-lxc8 contains the following :

* user namespace from Serge E. Hallyn <serue@us.ibm.com>
* bind_ns() syscalls from Cedric Le Goater <clg@fr.ibm.com>
* ro bind mount from Dave Hansen <hansendc@us.ibm.com>
* 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.

It's all here :

 http://lxc.sourceforge.net/patches/2.6.20/2.6.20-lxc8

Some very basic user space tools to work and test namespaces can
also be found here :

 http://lxc.sourceforge.net/patches/2.6.20/2.6.20-lxc8/broken-out/tests/

A lot of work still needs to be done in user space..this is not the highest priority for the moment but sooner or later we'll need to spend more time on it.

Hope you find it useful. If you have any issues with sourceforge download, please tell me. I can move this patchset to a more convenient site.

Cheers,

C.