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Subject: Re: [Announce] Checkpoint-restore tool v0.1  
Posted by [Serge E. Hallyn](#) on Mon, 23 Jul 2012 13:14:19 GMT  
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Quoting Pavel Emelyanov (xemul@parallels.com):

> Fixing the bogus containers@ ml and adding cgroups@ one. Sorry :(

>

> == Original message ==

>

> Hi!

>

> I'm glad to announce the first release of the checkpoint-restore tool.

>

>

> This project is an attempt to implement the checkpoint-restore functionality

> for processes and containers without driving too much code into the kernel tree,

> but putting there "various oddball helper code" instead.

>

> The tool can already be used for checkpointing and restoring various individual

> applications. And the greatest thing about this so far is that most of the below

> functionality has the required kernel support in the recently released v3.5!

>

> So, we support now

>

> \* x86\_64 architecture

> \* process' linkage

> \* process groups and sessions (without ttys though :\) )

> \* memory mappings of any kind (shared, file, etc.)

> \* threads

> \* open files (shared between tasks and partially opened-and-unlinked)

> \* pipes and fifos with data

> \* unix sockets with packet queues contents

> \* TCP and UDP sockets (TCP connections support exists, but needs polishing)

> \* inotify, eventpoll and eventfd

> \* tasks' sigactions setup, credentials and itimers

> \* IPC, mount and PID namespaces

>

> Though namespaces support is in there, we do not yet support an LXC container c/r,

> but we're close to it :)

>

>

> I'd like to thank everyone who took part in new kernel APIs discussions, the

> feedback was great! Special thanks goes to Linus for letting the kernel parts

> in early, instead of making them sit out of tree till becoming stable enough.

>

>

> Tarball with the tool sources is at

>

> <http://download.openvz.org/criu/crtools-0.1.tar.bz2>  
>  
> The git repo is at  
>  
> <http://git.criu.org/>  
>  
> And some sort of docs growing at  
>  
> <http://criu.org/>  
>  
>  
> There are still things for which we don't have the kernel support merged (SysVIPC  
> and various anon file descriptors, i.e. inotify, eventpoll, eventfd) yet. We have  
> the kernel branch with the stuff applied available at  
>  
> <https://github.com/cyrillos/linux-2.6.git>  
>  
>  
> Thanks,  
> Pavel

Awesome - thanks, Pavel, and congratulations :) I'll have to give it a spin as soon as I get a chance.

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