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Subject: Catching the console

Posted by [Enrico Weigelt](#) on Wed, 12 Dec 2007 11:27:01 GMT

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Hi folks,

by an recent post @users list I learned, I'm not the only one who likes to catch the console at VE bootup. There are several ways to work around (within the VE), but this actually doesn't \*solve\* the problem.

No I'd like to request an feature for catching the console. IMHO, it's enough to have an option to vzctl start, which tells it to not to detach and bring the VE's console to the current tty.

How could this be done ?

cu

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Enrico Weigelt == metux IT service - <http://www.metux.de/>  
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Subject: Re: Catching the console

Posted by [rkagan](#) on Thu, 13 Dec 2007 08:16:26 GMT

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On Wed, Dec 12, 2007 at 12:27:01PM +0100, Enrico Weigelt wrote:

> No I'd like to request an feature for catching the console.  
> IMHO, it's enough to have an option to vzctl start, which tells  
> it to not to detach and bring the VE's console to the current tty.

Unfortunately this is much trickier than that. The problem is that at some point you'll want to detach the VE0's end; with standard Unix98 ptys this will result in SIGHUP being sent to all processes in the VE whose controlling terminal is the console. Besides, there are certain implications for online migration of the VEs - you should leave no references to the VE0 objects that can't be reconstructed on the destination node.

So it looks like there's no pure userspace solution. OTOH adding the

kernel support for it doesn't look impossible off-hand; I'll have a look.

Roman.

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Subject: RE: Catching the console

Posted by [Dietmar Maurer](#) on Thu, 13 Dec 2007 08:25:19 GMT

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Hi all,

here is a patch for vzctl to catch init output. output is written to VEROOT/var/log/init.log

I tested it with some debian templates (sysvinit), but it would be great if someone else tries/test it with other templates.

- Dietmar

> Von: devel-bounces@openvz.org

> [mailto:devel-bounces@openvz.org] Im Auftrag von Roman Kagan

> Gesendet: Donnerstag, 13. Dezember 2007 09:16

> An: Enrico Weigelt

> Cc: OpenVZ developer list

> Betreff: Re: [Devel] Catching the console

>

> On Wed, Dec 12, 2007 at 12:27:01PM +0100, Enrico Weigelt wrote:

> > No I'd like to request an feature for catching the console.

> > IMHO, it's enough to have an option to vzctl start, which  
> tells it to

> > not to detach and bring the VE's console to the current tty.

>

> Unfortunately this is much trickier than that. The problem

> is that at some point you'll want to detach the VE0's end;

> with standard Unix98 ptys this will result in SIGHUP being

> sent to all processes in the VE whose controlling terminal is

> the console. Besides, there are certain implications for

> online migration of the VEs - you should leave no references

> to the VE0 objects that can't be reconstructed on the

> destination node.

>

> So it looks like there's no pure userspace solution. OTOH

> adding the kernel support for it doesn't look impossible

> off-hand; I'll have a look.

>

> Roman.

>

## File Attachments

1) [env.c.diff](#), downloaded 341 times

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Subject: Re: Catching the console

Posted by [Enrico Weigelt](#) on Sat, 22 Dec 2007 10:36:58 GMT

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\* Roman Kagan <[rkagan@sw.ru](mailto:rkagan@sw.ru)> wrote:

Hi,

> Unfortunately this is much trickier than that. The problem is that at  
> some point you'll want to detach the VE0's end; with standard Unix98  
> ptys this will result in SIGHUP being sent to all processes in the VE  
> whose controlling terminal is the console. Besides, there are certain  
> implications for online migration of the VEs - you should leave no  
> references to the VE0 objects that can't be reconstructed on the  
> destination node.

I just need it for debugging (eg. the startup process where no remote access is available yet), so these problems aren't important there.

If it really should be detachable, I suggest something like screen(1), maybe implemented as 9P server.

cu

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Enrico Weigelt == metux IT service - <http://www.metux.de/>  
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