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Subject: init output

Posted by [Dietmar Maurer](#) on Tue, 11 Dec 2007 07:19:34 GMT

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Hi all,

is it possible to capture the output of the init process (to see what happens on VE startup)?

- Dietmar

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Subject: Re: init output

Posted by [dev](#) on Tue, 11 Dec 2007 08:04:14 GMT

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you can run VE /sbin/init with environment variable CONSOLE set to some file.

in this case it's output will get into file.

# man init

Thanks,

Kirill

Dietmar Maurer wrote:

> Hi all,

>

> is it possible to capture the output of the init process (to see what

> happens on VE startup)?

>

> - Dietmar

>

>

>

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Subject: AW: init output

Posted by [Dietmar Maurer](#) on Tue, 11 Dec 2007 09:08:26 GMT

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But I can't do that with current vzctl, instead I need to modify the source?

```
env.c 301: char *envp[] = {"HOME=/", "TERM=linux",  
"CONSOLE=/var/log/init.log", NULL};
```

Is that the way to do it?

- Dietmar

> you can run VE /sbin/init with environment variable CONSOLE  
> set to some file.  
> in this case it's output will get into file.  
> # man init

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Subject: Re: AW: init output  
Posted by [dev](#) on Tue, 11 Dec 2007 09:22:23 GMT  
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or you can replace /sbin/init with some script adding this to env  
and running original init binary.

Kirill

Dietmar Maurer wrote:

> But I cant do that with current vzctl, instead I need to modify the  
> source?  
>  
> env.c 301: char \*envp[] = {"HOME=/", "TERM=linux",  
> "CONSOLE=/var/log/init.log", NULL};  
>  
> Is that the way to do it?  
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> - Dietmar  
>  
>  
>>you can run VE /sbin/init with environment variable CONSOLE  
>>set to some file.  
>>in this case it's output will get into file.  
>># man init  
>  
>  
>

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Subject: RE: init output  
Posted by [Dietmar Maurer](#) on Tue, 11 Dec 2007 12:36:23 GMT  
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OK, tried it both ways, but output is truncated by vzctl stop.

For example the following init script:

-----

```
#!/bin/sh
```

```
# file must be there - create it
echo >/var/log/init.log
export CONSOLE=/var/log/init.log
exec /sbin/init.org
```

-----

then I start the VE and try to view the log:

```
> vzctl start 777
```

```
> tail -100f /var/lib/vz/root/777/var/log/init.log
stty: standard input: Inappropriate ioctl for device
/etc/rcS.d/S03udev: line 265: echo: write error: Operation not permitted
Activating swap...done.
mount: permission denied
Cleaning up ifupdown....
....
```

That works quite good so far, but when I stop the VE the file gets truncated:

```
tail: /var/lib/vz/root/777/var/log/init.log: file truncated
```

Any idea why? I already searched the sysvinit code sources, but found nothing there.

- Dietmar

```
> or you can replace /sbin/init with some script adding this to
> env and running original init binary.
>
> Kirill
>
> Dietmar Maurer wrote:
> > But I cant do that with current vzctl, instead I need to modify the
> > source?
> >
> > env.c 301: char *envp[] = {"HOME=/", "TERM=linux",
> > "CONSOLE=/var/log/init.log", NULL};
> >
```

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Subject: RE: init output

Posted by [Dietmar Maurer](#) on Tue, 11 Dec 2007 12:51:30 GMT

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> tail: /var/lib/vz/root/777/var/log/init.log: file truncated

>

> Any idea why? I already searched the sysvinit code sources,  
> but found nothing there.

'vzctl stop' does not work at all with my modified init - no processes  
killed.

- Dietmar

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Subject: AW: init output

Posted by [Dietmar Maurer](#) on Tue, 11 Dec 2007 13:02:19 GMT

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Ah, got it - its because i need to pass correct parameters to init.

- Dietmar

> Von: users-bounces@openvz.org

> [mailto:users-bounces@openvz.org] Im Auftrag von Dietmar Maurer

> Gesendet: Dienstag, 11. Dezember 2007 13:52

> An: users@openvz.org; Kirill Korotaev

> Betreff: RE: [Users] init output

>

>

> > tail: /var/lib/vz/root/777/var/log/init.log: file truncated

> >

> > Any idea why? I already searched the sysvinit code sources,  
> but found

> > nothing there.

>

> 'vzctl stop' does not work at all with my modified init - no  
> processes killed.

>

> - Dietmar

>

>

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Subject: Re: init output

Posted by [rkagan](#) on Tue, 11 Dec 2007 14:29:37 GMT

On Tue, Dec 11, 2007 at 01:51:30PM +0100, Dietmar Maurer wrote:

```
>
> > tail: /var/lib/vz/root/777/var/log/init.log: file truncated
> >
> > Any idea why? I already searched the sysvinit code sources,
> > but found nothing there.
>
> 'vzctl stop' does not work at all with my modified init - no processes
> killed.
```

vzctl stop effectively calls 'init 0'. Now that /sbin/init is your script, it unconditionally truncates the log file, and then calls /sbin/init.org again without arguments.

To get what you want you need a slightly more elaborate script, something like the following (untested):

```
#!/bin/sh

# file must be there - create it if we're pid 1
[ $$ = 1 ] && echo >/var/log/init.log
export CONSOLE=/var/log/init.log
exec /sbin/init.org "$@"
```

That said, I do think we need to implement some sort of serial console-like device for VEs. We'll see what can be done here.

Roman.

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Subject: AW: init output

Posted by [Dietmar Maurer](#) on Tue, 11 Dec 2007 16:23:54 GMT

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```
> To get what you want you need a slightly more elaborate
> script, something like the following (untested):
>
> #!/bin/sh
>
> # file must be there - create it if we're pid 1 [ $$ = 1 ] &&
> echo >/var/log/init.log export CONSOLE=/var/log/init.log exec
> /sbin/init.org "$@"
>
>
> That said, I do think we need to implement some sort of
```

> serial console-like device for VEs. We'll see what can be done here.

I already have a working init wrapper which uses a named pipe, and an additional logging process to read that named pipe and writes it into a file.

(init uses open without O\_APPEND, so setting CONSOLE=filename will never work)

Will post my script here as soon as it gets more stable.

- Dietmar

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