
Subject: problems with vzctl init logging patch
Posted by [Dietmar Maurer](#) on Wed, 12 Mar 2008 09:36:57 GMT
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hi all,

my init logging patch works so far, but unfortunately it breaks checkpointing:

```
-----  
>vzctl chkpnt 101  
Setting up checkpoint...  
suspend...  
dump...  
Can not dump container: Invalid argument  
Error: d_path err=-22  
Checkpointing failed  
-----
```

Maybe some of the developers can give me a hint whats wrong?

ls of shows (16531 id the logging process)

```
lt-vzctl 16531 root cwd DIR 0,22 4096  
1226401 /var/lib/vz/root/101  
lt-vzctl 16531 root rtd DIR 0,22 4096  
1226401 /var/lib/vz/root/101  
lt-vzctl 16531 root txt REG 8,1 98155  
2047179 /home/dietmar/pve/vzctl/vzctl-3.0.22/src/.libs/lt-vzctl  
lt-vzctl 16531 root mem REG 0,0  
0 [heap] (stat: No such file or directory)  
lt-vzctl 16531 root mem REG 8,1 97928  
1896840 /lib/ld-2.3.6.so  
lt-vzctl 16531 root mem REG 8,1 488939  
2031943  
/home/dietmar/pve/vzctl/vzctl-3.0.22/src/lib/.libs/libvzctl-0.0.2.so  
lt-vzctl 16531 root mem REG 8,1 10392  
1896846 /lib/libdl-2.3.6.so  
lt-vzctl 16531 root mem REG 8,1 10520  
1896843 /lib/libutil-2.3.6.so  
lt-vzctl 16531 root mem REG 8,1 1282008  
1896845 /lib/libc-2.3.6.so  
lt-vzctl 16531 root 0u CHR 1,3  
1423308 /var/lib/vz/root/101/dev/null  
lt-vzctl 16531 root 1w REG 0,22 1941  
1232142 /var/lib/vz/root/101/var/log/init.log  
lt-vzctl 16531 root 2r FIFO 0,22  
1232141 /var/lib/vz/root/101/var/log/init.fifo
```

File Attachments

1) [env.c.diff](#), downloaded 557 times

Subject: AW: problems with vzctl init logging patch
Posted by [Dietmar Maurer](#) on Wed, 12 Mar 2008 09:48:35 GMT
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Just a guess: its the logging proxess itself, because that process still runs on the host - I need to do a exec instead?

- Dietmar

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

> An: users@openvz.org
> Betreff: [Users] problems with vzctl init logging patch
>
> hi all,
>
> my init logging patch works so far, but unfortunately it breaks
> checkpointing:
> -----
> >vzctl chkpnt 101
> Setting up checkpoint...
> suspend...
> dump...
> Can not dump container: Invalid argument
> Error: d_path err=-22
> Checkpointing failed
> -----
>
> Maybe some of the developers can give me a hint whats wrong?
>
> lsof shows (16531 id the logging process)
>
> lt-vzctl 16531 root cwd DIR 0,22 4096
> 1226401 /var/lib/vz/root/101
> lt-vzctl 16531 root rtd DIR 0,22 4096
> 1226401 /var/lib/vz/root/101
> lt-vzctl 16531 root txt REG 8,1 98155
> 2047179 /home/dietmar/pve/vzctl/vzctl-3.0.22/src/.libs/lt-vzctl
> lt-vzctl 16531 root mem REG 0,0
> 0 [heap] (stat: No such file or directory)
> lt-vzctl 16531 root mem REG 8,1 97928
> 1896840 /lib/ld-2.3.6.so

```
> lt-vzctl 16531    root mem    REG          8,1  488939
> 2031943
> /home/dietmar/pve/vzctl/vzctl-3.0.22/src/lib/.libs/libvzctl-0.0.2.so
> lt-vzctl 16531    root mem    REG          8,1  10392
> 1896846 /lib/libdl-2.3.6.so
> lt-vzctl 16531    root mem    REG          8,1  10520
> 1896843 /lib/libutil-2.3.6.so
> lt-vzctl 16531    root mem    REG          8,1 1282008
> 1896845 /lib/libc-2.3.6.so
> lt-vzctl 16531    root 0u    CHR          1,3
> 1423308 /var/lib/vz/root/101/dev/null
> lt-vzctl 16531    root 1w    REG          0,22  1941
> 1232142 /var/lib/vz/root/101/var/log/init.log
> lt-vzctl 16531    root 2r    FIFO         0,22
> 1232141 /var/lib/vz/root/101/var/log/init.fifo
>
>
>
```

Subject: AW: problems with vzctl init logging patch
Posted by [Dietmar Maurer](#) on Wed, 12 Mar 2008 13:13:47 GMT
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Ok, exec solves the problem. Attached is the new patch.

- Dietmar

File Attachments

1) [vzctl.diff](#), downloaded 614 times

Subject: Re: AW: problems with vzctl init logging patch
Posted by [kir](#) on Wed, 12 Mar 2008 15:09:31 GMT
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This looks good. Can you

- (1) make it optional, i.e. retain the old behavior by default and provide a way to turn init logging on (command-line switch, or VE config parameter)
- (2) make init-logger so it would not depend on perl being available inside the container; i guess it can be rewritten in shell as /bin/sh should be there
- (3) add the comment to init-logger saying that this file was copied from the host system to this container and so any changes made to it inside a container will be lost during the next container start
- (4) document it all

(5) add init-logger to the vzctl.spec file

Dietmar Maurer wrote:

> Ok, exec solves the problem. Attached is the new patch.
>

Subject: AW: AW: problems with vzctl init logging patch
Posted by [Dietmar Maurer](#) on Wed, 12 Mar 2008 15:56:35 GMT
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> This looks good. Can you
> (1) make it optional, i.e. retain the old behavior by default
> and provide a way to turn init logging on (command-line
> switch, or VE config
> parameter)

Ok

> (2) make init-logger so it would not depend on perl being
> available inside the container; i guess it can be rewritten
> in shell as /bin/sh should be there

Will try. But cant we depend on perl? Perl should be available on most platforms. I can even add a test if perl is available, and do not start the logger if there is no perl?

> (3) add the comment to init-logger saying that this file was
> copied from the host system to this container and so any
> changes made to it inside a container will be lost during the
> next container start
> (4) document it all
> (5) add init-logger to the vzctl.spec file

Ok, will send a new patch when ready.

- Dietmar

Subject: Re: AW: AW: problems with vzctl init logging patch
Posted by [kir](#) on Wed, 12 Mar 2008 16:23:49 GMT
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Dietmar Maurer wrote:

>> This looks good. Can you
>> (1) make it optional, i.e. retain the old behavior by default
>> and provide a way to turn init logging on (command-line

>> switch, or VE config
>> parameter)
>>
>
> Ok
>
>
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>> available inside the container; i guess it can be rewritten
>> in shell as /bin/sh should be there
>>
>
> Will try. But cant we depend on perl? Perl should be available on most
> platforms. I can even add a test if perl is available, and do not start
> the logger if there is no perl?
>

Adding a check makes sense. But first -- why do you need perl at all? Is there something that can't be done in shell?

>
>> (3) add the comment to init-logger saying that this file was
>> copied from the host system to this container and so any
>> changes made to it inside a container will be lost during the
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>> (4) document it all
>> (5) add init-logger to the vzctl.spec file
>>
>
> Ok, will send a new patch when ready.
>
> - Dietmar
>
>

Subject: AW: AW: AW: problems with vzctl init logging patch
Posted by [Dietmar Maurer](#) on Wed, 12 Mar 2008 16:34:15 GMT
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> Adding a check makes sense. But first -- why do you need perl
> at all? Is there something that can't be done in shell?

I guess you are right - will rewrite it.

- Dietmar

Subject: AW: AW: problems with vzctl init logging patch
Posted by [Dietmar Maurer](#) on Thu, 13 Mar 2008 07:43:18 GMT
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> Adding a check makes sense. But first -- why do you need perl
> at all? Is there something that can't be done in shell?
> >

I just remembered why I hate shell programming ;-)

Please can someone tell me how to do a binary read with a shell. In perl
I simple do:

```
while (my $len = sysread (LOGFIFO, $buf, 4096)) {  
    syswrite (LOGFILE, $buf);  
}
```

How to do that with a shell script? I first tried:

```
cat <$logfifo >>$logfile
```

But that spans a new process, and I do not want that.

Using builtin commands only:

```
while [ 1 ]; do  
    read line || break  
    echo $line  
done < $logfifo >>$logfile
```

Works, but always waits for whole lines (we want to read/write
immediatly instead)

The following code works for bash, but not for other shells:

```
while [ 1 ]; do  
    # -n is not available everywhere (i.e. dash)  
    read -n 1 data || break  
    if [ -z $data ]; then  
        echo  
    else  
        echo -n $data  
    fi  
done < $logfifo >>$logfile
```

Any Ideas?

- Dietmar

Subject: AW: AW: problems with vzctl init logging patch
Posted by [Dietmar Maurer](#) on Thu, 13 Mar 2008 11:23:52 GMT
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Attached is the new patch.

- Dietmar

File Attachments

1) [vzctl.diff](#), downloaded 540 times
