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?

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
```

File Attachments
1) env.c.diff, downloaded 608 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 689 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
>
>
>> (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?
>

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
>> 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: 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
immeniately instead)

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

```
while [ 1 ]; do
        # -n is not available everywhwere (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 593 times