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Subject: possible container states/statuses

Posted by [knewnd](#) on Mon, 16 May 2011 13:43:23 GMT

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Hi!

I wonder what the possible container states/statuses are and how they can be detected?

I read about 'status' option in 'man vzctl' which is below:

=====

status

Shows a container status. This is a line with five or six words, separated by spaces.

First word is literally CTID.

Second word is the numeric CT ID.

Third word is showing whether this container exists or not, it can be either exist or deleted.

Fourth word is showing the status of the container filesystem, it can be either mounted or unmounted.

Fifth word shows if the container is running, it can be either running or down.

Sixth word, if exists, is suspended. It appears if both a container and its dump file exist (see chkpnt).

[...]

=====

So I tried to summarize possible CT states as the following ('+' means states is possible and '-' it is impossible):

exist mounted down (-)

exist mounted running (+)

exist unmounted down (+)

exist unmounted running (-)

exist unmounted down suspended (+)

deleted unmounted down (+)

deleted mounted down (-)

deleted mounted running (-)

deleted unmounted down (-)

Could someone confirms these are all possible container states, please?

Can container for some reason crash? If it can then what the 'vzctl status' shows for it?

Thanks,  
Nikolay.

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Subject: Re: possible container states/statuses  
Posted by [kir](#) on Mon, 16 May 2011 18:48:02 GMT  
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Generally speaking, all the states (words) are independent, with a few exceptions (mostly obvious and logical):

1. Running CT can't be unmounted.
  2. Deleted CT can't be mounted or running or suspended (or so I think, might be wrong here — if you manually delete running CT's configuration file it might show as deleted mounted running).
  3. (Contrary to common thinking) running CT can be suspended!
- On May 16, 2011 5:47 PM, <[kawnd@gmail.com](mailto:kawnd@gmail.com)> wrote:
- 

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Subject: Re: possible container states/statuses  
Posted by [KriS83](#) on Mon, 16 May 2011 19:18:25 GMT  
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Hi,

Am 16.05.2011 15:43, schrieb [kawnd@gmail.com](mailto:kawnd@gmail.com):

> =====

>

> So I tried to summarize possible CT states as the following ('+' means  
> states is possible and '-' it is impossible):  
> exist mounted down (-)

I'd think this one is actually possible?  
A CT can exist, not run but be mounted.

Regards,  
Kristian

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Subject: Re: possible container states/statuses  
Posted by [kawnd](#) on Tue, 17 May 2011 05:50:13 GMT  
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Thanks everyone who replied!

Nikolay.

Kristian Marcroft wrote on 16/05/11 23:18:

> Hi,  
>  
> Am 16.05.2011 15:43, schrieb knawnd@gmail.com:  
>  
>> =====  
>>  
>> So I tried to summarize possible CT states as the following ('+' means  
>> states is possible and '-' it is impossible):  
>> exist mounted down (-)  
> I'd think this one is actually possible?  
> A CT can exist, not run but be mounted.  
>  
> Regards,  
> Kristian

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Subject: Re: possible container states/statuses  
Posted by [knawnd](#) on Tue, 17 May 2011 06:13:14 GMT  
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Kir Kolyshkin wrote on 16/05/11 22:48:

>  
> Generally speaking, all the states (words) are independent, with a few  
> exceptions (mostly obvious and logical):  
>  
> 1. Running CT can't be unmounted.  
> 2. Deleted CT can't be mounted or running or suspended (or so I think,  
> might be wrong here — if you manually delete running CT's  
> configuration file it might show as deleted mounted running).  
> 3. (Contrary to common thinking) running CT can be suspended!  
>  
Does your last sentence mean "CT can be in running and suspended state"  
i.e. 'vzctl status' has to show 'exist mounted running suspended'?  
I've just tried to reproduce that state following [1] guide. So I did:  
\$ vzctl create 103 --ostemplate centos-5-x86  
Creating container private area (centos-5-x86)  
Performing postcreate actions  
Container private area was created

\$ vzctl start 103  
Starting container ...  
Container is mounted  
Setting CPU units: 1000  
Container start in progress...

```
$ vzlist
  CTID   NPROC STATUS  IP_ADDR   HOSTNAME
  103     6 running  -         -
```

```
$ vzctl chkpnt 103 --suspend
```

```
Setting up checkpoint...
```

```
  suspend...
```

```
  get context...
```

```
Checkpointing completed succesfully
```

```
$ vzctl status 103
```

```
CTID 103 exist mounted running
```

```
$ vzlist
  CTID   NPROC STATUS  IP_ADDR   HOSTNAME
  103    12 running  -         -
```

```
$vzctl chkpnt 103 --dump --dumpfile /vz/dump/dump.103
```

```
Setting up checkpoint...
```

```
  join context..
```

```
  dump...
```

```
Checkpointing completed succesfully
```

```
$ vzlist
  CTID   NPROC STATUS  IP_ADDR   HOSTNAME
  103    12 running  -         -
```

```
$ vzctl status 103
```

```
CTID 103 exist mounted running
```

As one can see 'vzctl status' doesn't show running CT as suspended. So what is the proper way to detect that state (running and suspended CT)?

Software versions used:

```
$ rpm -q vzctl
vzctl-3.0.26.3-1
```

```
$ uname -rsvpi
```

```
Linux 2.6.18-238.9.1.el5.028stab089.1 #1 SMP Thu Apr 14 14:34:26 MSD
2011 i686 i386
```

[1] [http://wiki.openvz.org/Checkpointing\\_and\\_live\\_migration](http://wiki.openvz.org/Checkpointing_and_live_migration)

> On May 16, 2011 5:47 PM, <knawnd@gmail.com <<mailto:knawnd@gmail.com>>>

> wrote:

>

>

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Subject: Re: possible container states/statuses  
Posted by [knawnd](#) on Tue, 17 May 2011 06:48:40 GMT  
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> \$ vzctl status 103  
> CTID 103 exist mounted running  
>  
> As one can see 'vzctl status' doesn't show running CT as suspended. So  
> what is the proper way to detect that state (running and suspended CT)?  
I guess because 'suspended' is missing from the output of 'vzctl status'  
command for such CT the attempt to stop a CT in such state (running and  
suspended) has to be properly traced. For example, 'vzctl stop <CT\_ID>'  
has to print something like "CT is running and suspended. Please, resume  
it by executing 'vzctl chkpnt <CTID> --resume' command in order to stop  
it". Right now the action 'vzctl stop <CTID>' on running and suspended  
CT ends with "Unable to stop container: operation timed out" what is  
expected.

Regards,  
Nikolay.

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