Subject: undump fails because of .nfs file in Container
Posted by astnwt on Tue, 19 Apr 2011 09:01:57 GMT
View Forum Message <> Reply to Message

Hey there,

we are not able to zero-downtime-migrate a CT,
the target HN brings the following error description:

root@ovz-b:~# vzctl restore 2000
Restoring container ...
Starting container ...
Container is mounted
 undump...
Setting CPU units: 1000
Configure veth devices: veth2000.0
Error: undump failed: No such file or directory
Restoring failed:
Error: can't open file /var/run/apache2/.nfs0000000000543096000004e
Error: rst_file: -2 46240
Error: rst_files: -2
Error: make_baby: -2
Error: rst_clone_children
Container start failed
Stopping container ...
Container was stopped
Container is unmounted

The file is created everytime Apache2 starts on the CT and is removed as soon as Apache2
stops.

Also, we can't just "delete" the file because Apache2 keeps filesystem locks on it:

root@ct2000:/# lsof | grep .nfs
apache2 456   root   9w   REG   0,27   0   5517462
/var/run/apache2/.nfs00000000000543096000000073
apache2 472 www-data 9w   REG   0,27   0   5517462
/var/run/apache2/.nfs00000000000543096000000073
apache2 473 www-data 9w   REG   0,27   0   5517462
/var/run/apache2/.nfs00000000000543096000000073
apache2 474 www-data 9w   REG   0,27   0   5517462
/var/run/apache2/.nfs00000000000543096000000073
apache2 475 www-data 9w   REG   0,27   0   5517462
/var/run/apache2/.nfs00000000000543096000000073
apache2 476 www-data 9w   REG   0,27   0   5517462

/var/run/apache2/.nfs00000000000543096000000073

It seems that this file prevents us from using zero-downtime migration completely, is there any way to debug this?

Subject: Re: undump fails because of .nfs file in Container
Posted by astnwt on Thu, 21 Apr 2011 20:29:36 GMT
View Forum Message <> Reply to Message

The problem still persists, but now we have a little more information
about this file:

It seems to be a kind of lock file since it is empty, in this case created by SQLITE. As soon as we power down the process that's using the database, the file vanished.

Such files also show up on /tmp on containers that are hosting MySQL servers. Obviously, these services recognize that the containers on our host nodes are actually a NFS share mounted to /var/lib/vz.

We use NFS shares for achieve fast migrations of the containers between different host nodes. When powering those containers from our local HDDs, these .nfs files are not created and the container migration succeeds.

We believe this might be a bug on openVZs restore mechanism since it seems to handle such lock files wrong - maybe because they are locked by an active process. Therefore, I will create a new bug report to Bugzilla and post the link to the report afterwards.

Thank you in advance for your help

Daniel

Subject: Re: undump fails because of .nfs file in Container
Posted by astnwt on Thu, 21 Apr 2011 21:02:55 GMT
View Forum Message <> Reply to Message

can not post a Link yet (10 posts limitation) -
so the BugID in BugZilla we reported is:

  1857