Subject: TMPFS Limitations
Posted by AlexFox on Fri, 27 Aug 2010 07:06:49 GMT
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Hi Guys,

I've VERY new to OpenVZ so forgive me if this is a silly post.

We want to run a container with a TMPFS mount with a size limit of say 200M. We need this 200M to be guaranteed available. So I did the following on the container as a test:

```
mkdir /mnt/test
mount -t tmpfs -o noexec,nosuid,size=200M tmpfs /mnt/test
dd if=/dev/zero of=/mnt/test/file bs=1M count=100
```

This should produce a file of 100M, but it stops at 88M and says "No space left on device"

This is the results of "free -m" on the container:

```
free -m
             total       used       free     shared    buffers     cached
Mem:          2048        134       1913          0          0          0
-/+ buffers/cache:        134       1913
Swap:            0          0          0
```

and this is "df -h" on the container:

```
Filesystem            Size  Used Avail Use% Mounted on
/dev/simfs            892G  4.5G  842G   1% /
none                  1.0G  4.0K  1.0G   1% /dev
tmpfs                 200M   85M  116M  43% /mnt/test
```

I've also adjusted the vmguarpages and privvmpages like this:

```
vzctl set vpsid --vmguarpages $((256 * 1024)) --save
vzctl set vpsid --privvmpages $((256 * 2048)) --save
```

Ideas?

Subject: Re: TMPFS Limitations
Posted by AlexFox on Fri, 27 Aug 2010 08:22:26 GMT
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To answer my own question, and perhaps anyone else who has been stuck with this (Doubtfull)

You need to set shmpages (Still not a 100% sure what this is), like so:

vzctl set 1001 --shmpages unlimited --save

This will sort out the problem.

For more reading:

http://wiki.openvz.org/UBC_auxiliary_parameters#shmpages