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Subject: Re: Bind Mount + User Quotas: Is it possible?  
Posted by morrizon on Wed, 10 Dec 2014 20:25:03 GMT  
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I'm using proxmox[1] and OpenVZ with multiple bind mounts[2] and quotas. This is possible because the quotas are managed by other containers.

For example, I want have a LAMP server with two bind mounts, one for the web files (100GB) and another for the MySQL (50GB). I do the following steps:

1. Create 3 containers:

- a) webserver101 (id 101): disk 4GB
- b) storage102 (id 102): disk 100GB
- c) storage103 (id 103): disk 50GB

2. Start all the containers.

3. Generate the folders to mount if doesn't exist. I want mount folders with the name of the container to folders with the of the service:

```
root@host:~# mkdir /var/lib/vz/root/101/home/www
root@host:~# mkdir /var/lib/vz/root/101/home/mysql
root@host:~# mkdir /var/lib/vz/root/102/home/storage102
root@host:~# mkdir /var/lib/vz/root/103/home/storage103
```

4. Generate the bind mounts[2] for webserver101 in the host:

```
root@host:~# cat /etc/vz/conf/101.mount
#!/bin/bash
./etc/vz/vz.conf
.${VE_CONF}
SRC1=/var/lib/vz/private/102/home/storage102
DST1=/home/www
SRC2=/var/lib/vz/private/103/home/storage103
DST2=/home/mysql
```

```
mount -n -t simfs ${SRC1} ${VE_ROOT}${DST1} -o ${SRC1}
mount -n -t simfs ${SRC2} ${VE_ROOT}${DST2} -o ${SRC2}
```

5. Restart the container webserver101. It's very important start first the storage containers because they manage the quotas.

The bind mounts in the host:

The bind mounts in the container:

```
root@ns398468:~# vzctl enter 101
entered into CT 101
root@webserver101:/# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/simfs       4.0G  603M  3.5G  15% /
/dev/simfs       100G  603M  100G  1% /home/www
/dev/simfs        50G  603M   50G  2% /home/mysql
none            2.0G  4.0K  2.0G  1% /dev
none           410M  1.0M  409M  1% /run
none            5.0M    0  5.0M  0% /run/lock
none            2.0G    0  2.0G  0% /run/shm
```

I'm sure there is a better solution that don't need to create storage containers and waste disk space and memory but this work for me

[1] See proxmox DOT com

[2] See article of jamescoyle DOT net -> search in google

525-proxmox-bind-mount-mount-storage-in-a-container (sorry, cannot use links because limit of the forum)