
Subject: Live migration with host file system mounted
Posted by [triangle](#) on Wed, 20 May 2009 13:36:56 GMT
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Hi all

I am having an issue with live migrating a container which has mounted a host file system.

Environment:

This is the OpenVZ linux kernel I am using: 2.6.18-92.1.18.el5.028stab060.8

And here are my action scripts:

```
[root@openvz-cluster-node1 vz-scripts]# cat 101.mount  
#!/bin/bash
```

```
CONTAINER_ID=101  
MOUNT_POINT="/vz/root/${CONTAINER_ID}/mnt"
```

```
mount -n --bind /drbd1 ${MOUNT_POINT}
```

```
[root@openvz-cluster-node1 vz-scripts]# cat 101.umount  
#!/bin/bash
```

```
CONTAINER_ID=101  
MOUNT_POINT="/vz/root/${CONTAINER_ID}/mnt"
```

```
mnt=$(grep ${MOUNT_POINT} /proc/mounts | wc -l)
```

```
if [ ${mnt} -eq 1 ]; then  
    umount ${MOUNT_POINT}  
fi
```

```
[root@openvz-cluster-node1 vz-scripts]#
```

Problem description:

Non-live migration works perfectly while the migrated container has mounted its host's file system. Unfortunately, *live* migration fails in this setup.

Here is an example:

Live migration:

```
[root@openvz-cluster-node1 ~]# vz migrate --remove-area no --online openvz-cluster-node2 101  
OPT:--remove-area  
OPT:--online  
OPT:openvz-cluster-node2
```

Starting online migration of CT 101 to openvz-cluster-node2
Preparing remote node
Initializing remote quota
vzquota : (warning) Quota file exists, it will be overwritten
Syncing private
Live migrating container...
Error: Failed to suspend container

And now non-live migration:

```
[root@openvz-cluster-node1 ~]# vzmigrate --remove-area no openvz-cluster-node2 101
OPT:--remove-area
OPT:openvz-cluster-node2
Starting migration of CT 101 to openvz-cluster-node2
Preparing remote node
Initializing remote quota
Syncing private
Stopping container
Syncing 2nd level quota
Starting container
Cleanup
```

BTW: Live migration works perfectly without having any host file system(s) mounted by the container.

My goal is to have live migration working as smooth and transparently as non-live migration even if the migrated container has mounted a host file system.

Is this possible? How can this be achieved?

Thanks, David

Subject: Re: Live migration with host file system mounted
Posted by [yourweb](#) on Fri, 27 Nov 2009 14:24:41 GMT
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I have the same question, any update on this??

Subject: Re: Live migration with host file system mounted
Posted by [triangle](#) on Fri, 27 Nov 2009 14:34:21 GMT
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No, unfortunately, I have no additional information regarding this issue.

Regards, David

Subject: Re: Live migration with host file system mounted

Posted by [yourweb](#) on Fri, 27 Nov 2009 14:40:11 GMT

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triangle wrote on Fri, 27 November 2009 09:34No, unfortunately, I have no additional information regarding this issue.

Regards, David

I've found something: http://wiki.openvz.org/Checkpointing_and_live_migration

With some custom scripts you can use this on your node.

Subject: Re: Live migration with host file system mounted

Posted by [triangle](#) on Mon, 30 Nov 2009 09:55:57 GMT

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This is what I am actually doing to live migrate such a container:

```
vzctl exec 101 umount /data && vmigrate --remove-area no --online <OpenVZ destination host> 101
```

Kind regards, David

Subject: Re: Live migration with host file system mounted

Posted by [yourweb](#) on Mon, 30 Nov 2009 10:50:46 GMT

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triangle wrote on Mon, 30 November 2009 04:55This is what I am actually doing to live migrate such a container:

```
vzctl exec 101 umount /data && vmigrate --remove-area no --online <OpenVZ destination host> 101
```

Kind regards, David

You umount the disk, transfer the container and the disk is mounted again, correct me if I'm wrong? Seems to be a better solution than saving the RAM into a file and restoring it manually as this tool does do this for me.
