
Subject: vzmigrate filesystem rsync correction

Posted by [Ola Lundqvist](#) on Tue, 02 Jan 2007 20:11:17 GMT

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Hi

During testing and debugging of a problem on Debian systems (which I later found out was corrected in 3.0.13 version) I found that the rsync commands in vzmigrate can give quite unexpected results.

The command looks basically like this:

```
rsync -aH ${from} ${to}
```

This means that files are copied from \${from} to \${to}, but if files already exist on \${to} from some older copy the old files that do not exist on \${from} will not be deleted.

This is a problem if --keep-dst or --online option is used.

There are two places where the rsync command is used for transfer of filesystem data.

The first one is right after 'log 1 "Syncing private"'. If --keep-dst is used this is a problem. The solution is to add the --delete option to rsync.

The second one is right after 'log 2 "Syncing private (2nd pass)'" and it is a problem if --online option is used and a file has been deleted between this run and the first rsync run.

The solution is to add the --delete option to rsync.

The following patch has been applied to the Debian (experimental version) packaged version of vzctl. Patched against 3.0.13:

```
--- vzctl-3.0.13.orig/vzmigrate
```

```
+++ vzctl-3.0.13/vzmigrate
```

```
@ @ -391,7 +391,7 @ @
```

```
fi
```

```
log 1 "Syncing private"
```

```
-if ! rsync -aH --progress "$VE_PRIVATE" "root@$host:${VE_PRIVATE%/*}" | \
```

```
+if ! rsync -aH --delete --progress "$VE_PRIVATE" "root@$host:${VE_PRIVATE%/*}" | \
    grep "% of" | awk -v ORS="\r" '{print $10}'; then
```

```
log 1 "Failed to sync VE private areas"
```

```
undo_quota_on
```

```
@ @ -444,7 +444,7 @ @
```

```
if [ "$state" = "running" ]; then
```

```

log 2 "Syncing private (2nd pass)"
time_rsync2=$(date +%s.%N)
-   if ! rsync -aH "$VE_PRIVATE" "root@$host:${VE_PRIVATE%/*}"; then
+   if ! rsync -aH --delete "$VE_PRIVATE" "root@$host:${VE_PRIVATE%/*}"; then
        log 1 "Failed to sync VE private areas"
        undo_source_stage
        exit $MIG_ERR_COPY

```

Will attach as well if the cut and paste made it non-applieable.

The patch is licensed under GNU/GPL.

Regards,

// Ola

```

--
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-----

```
