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

```
--
 -------------------- Ola Lundqvist --------------------------
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| ola@opalsys.net              654 65 KARLSTAD          |
| +46 (0)54-10 14 30            +46 (0)70-332 1551      |
| http://opalsys.net/          UIN/icq: 4912500         |
\ gpg/f.p.: 7090 A92B 18FE 7994 0C36  4FE4 18A1 B1CF 0FE5 3DD9 /
  ----------------------------------------------------------- ---
```

Subject: Re: vzmigrate filesystem rsync correction
Posted by Ola Lundqvist on Tue, 02 Jan 2007 20:45:05 GMT
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Hi

Sorry forgot to attach. Here it is.
I have also thinked again and there are more cases when this is
a problem. On "-r no" with failed sync and in any case when
there are files on the destination already.

In any case the patch solves this problem.

Regards,

// Ola

On Tue, Jan 02, 2007 at 09:11:17PM +0100, Ola Lundqvist wrote:
> Hi
>
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> (which I later found out was corrected in 3.0.13 version) I found

> that the rsync commands in vzmigrate can give quite unexpected
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> that do not exist on ${from} will not be deleted.
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> This is a problem if --keep-dst or --online option is used.
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> to rsync.
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> and it is a problem if --online option is used and a file has been
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>   grep "% of" | awk -v ORS="\r" '{print $10}'; then
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>   undo_quota_on
> @@ -444,7 +444,7 @@
> if ["$state" = "running"]; then
>   log 2 "Syncing private (2nd pass)"
>   time_rsync2=$(date +%s.%N)
> -   if ! rsync -aH "$VE_PRIVATE" "root@$host:${VE_PRIVATE%/*}"; then
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> Will attach as well if the cut and paste made it non-applieable.
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> // Ola
>
> --
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