Subject: How to exclude kernel updates in migrated VZ containers?
Posted by snow on Fri, 28 Aug 2015 07:14:04 GMT
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Hi guys,

I have running a few Debian machines migrated to VZ containers (none native VZ container installations).

Now when trying to upgrade the existing packages by using apt-get upgrade, it's not possible because of the original installed kernel packages.
For an example, one of the Debian machine:

```
apt-get upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be REMOVED:
  linux-image-3.2.0-4-amd64
The following packages will be upgraded:
  bind9-host dnsutils ghostscript libbind9-80 libdns88 libexpat1 libgdk-pixbuf2.0-0
libgdk-pixbuf2.0-common libgs9 libgs9-common libisc84 libisccc80 libisccfg82
  liblwres80 libnss3 linux-libc-dev tzdata
17 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
1 not fully installed or removed.
Need to get 0 B/8,183 kB of archives.
After this operation, 106 MB disk space will be freed.
Do you want to continue [Y/n]? Y
Reading changelogs... Done
Preconfiguring packages ...
(Reading database ... 35022 files and directories currently installed.)
Removing linux-image-3.2.0-4-amd64 ...
Examining /etc/kernel/postrm.d .
run-parts: executing /etc/kernel/postrm.d/initramfs-tools 3.2.0-4-amd64
/boot/vmlinuz-3.2.0-4-amd64
update-initramfs: Deleting /boot/initrd.img-3.2.0-4-amd64
run-parts: executing /etc/kernel/postrm.d/zz-update-grub 3.2.0-4-amd64
/boot/vmlinuz-3.2.0-4-amd64
/usr/sbin/grub-probe: error: cannot find a device for / (is /dev mounted?).
run-parts: /etc/kernel/postrm.d/zz-update-grub exited with return code 1
Failed to process /etc/kernel/postrm.d at /var/lib/dpkg/info/linux-image-3.2.0-4-amd64.postrm line
212.
dpkg: error processing linux-image-3.2.0-4-amd64 (--remove):
 subprocess installed post-removal script returned error exit status 1
Errors were encountered while processing:
 linux-image-3.2.0-4-amd64
E: Sub-process /usr/bin/dpkg returned an error code (1)
```

dpkg is showing the following status regarding the appropriate packages:

```
dpkg -l linux*
Desired=Unknown/Install/Remove/Purge/Hold
|  Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig -aWait/Trig-pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
||/ Name                          Version              Architecture          Description
 +++-==================================-====================
=-======================-==================================
=======================================
rc  linux-base                    3.5                  all                   Linux image base package
un  linux-doc-3.2                 <none>                                     (no description available)
un  linux-image                   <none>                                     (no description available)
un  linux-image-2.6-amd64         <none>                                     (no description available)
un  linux-image-2.6-openvz-amd64  <none>                                     (no description available)
un  linux-image-2.6-vserver-amd64 <none>                                     (no description available)
un  linux-image-2.6-xen-amd64     <none>                                     (no description available)
rH  linux-image-3.2.0-4-amd64     3.2.68-1+deb7u2      amd64                 Linux 3.2 for 64-bit
PCs
un  linux-initramfs-tool          <none>                                     (no description available)
un  linux-kernel-headers          <none>                                     (no description available)
un  linux-kernel-log-daemon       <none>                                     (no description available)
ii  linux-libc-dev:amd64          3.2.68-1+deb7u2      amd64                 Linux support headers
for userspace development
un  linux-modules-3.2.0-4-amd64   <none>                                     (no description available)
un  linux32                       <none>                                     (no description available)
```

The following kernel version will be used by the VZ container:

```
uname -a
2.6.32-042stab108.8 #1 SMP Wed Jul 22 17:23:23 MSK 2015 x86_64 GNU/Linux
```

To exclude the kernel package within the upgrade process I set the following package on hold:

```
apt-mark hold linux-image-3.2.0-4-amd64
linux-image-3.2.0-4-amd64 set on hold.

apt-mark showhold
linux-image-3.2.0-4-amd64
```

Now I get another error when trying to run apt-get upgrade:

```
apt-get upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
You might want to run 'apt-get -f install' to correct these.
The following packages have unmet dependencies:
```

linux-image-3.2.0-4-amd64 : Depends: linux-base (>= 3~) but it is not installed
Recommends: firmware-linux-free (>= 3~) but it is not installed
E: Unmet dependencies. Try using -f.

Therefore I would ask you how to proceed to get the upgrade working without upgrading the installed kernel packages?

Thanks,
Philipp

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