OpenNebula - Bug #3850
Wrong Xen toolstack selection for Xen4.4 in VNM command.rb
06/25/2015 01:36 PM - Hector Sanjuan

Status:	Closed		**Start date:**	06/25/2015
Priority:	Normal		**Due date:**	
Assignee:	Javi Fontan		**% Done:**	0%
Category:	Drivers - Network		**Estimated time:**	0.00 hour
Target version:	Release 4.14			
Resolution:	duplicate		**Pull request:**	
Affected Versions:	OpenNebula 4.12			

Description

I am using Debian 8 with Xen4.4.

The command.rb file has:

```
def self.get_xen_command
  if system("ps axuww | grep -v grep | grep '\\bxen\\b'")
    "sudo xm"
  else
    "sudo xl"
  end
end
```

If we run this "grep" command in a Xen4.4 box, with XL as toolstack we get:

```
irb(main):001:0> system("ps axuww | grep -v grep | grep '\\bxen\\b'")
root     1040  0.0  0.0  10876  2172 ?        SL   Jun19   0:28 /usr/lib/xen-4.4/bin/xenstored --pid-file=/var/run/xenstore.pid
root     1062  0.0  0.0  90868  2008 ?        SLl  Jun19   0:00 /usr/lib/xen-4.4/bin/xenconsoled --pid-file=/var/run/xenconsoled.pid
oneadmin 4815  1.5  0.0  36948  9232 ?        Sl   14:51   0:00 ruby ./xen.rb xen4-probes /opt/datastores 4124 20 11
sersic-dom0.um.nugg.ad
root     4818  0.0  0.0  19392  1944 ?        SL   14:51   0:00 /usr/lib/xen-4.4/bin/xentop -bi2
=> true
```

So it is wrongly selecting XM as toolstack instead of XL. I assume it is trying to figure out if there is a xen daemon, but that is also a wrong way yo go since you can use "xm" in Xen4 too.
In my box, there is a /usr/sbin/xen command that automatically selects the right toolstack (using /usr/lib/xen-common/bin/xen-toolstack), but I am not sure if this can be relied upon cross-distribution and cross-version. This xen-toolstack script looks in /etc/default/xen for the configured toolstack or fails back to defaults (xm in preference to xl if both are found). OpenNebula should implement a similar approach or rely in the xen-provided tooling if available.

Related issues:

Duplicates Bug # 3764: xen toolstack incorrect detection in var/remotes/vnm/c...	**Closed**	**04/20/2015**

History

#1 - 06/25/2015 01:41 PM - Ruben S. Montero

- Target version set to Release 4.14

#2 - 06/25/2015 04:16 PM - Hector Sanjuan

A patch for this has been added to my existing pull request: https://github.com/OpenNebula/one/pull/60

#3 - 06/25/2015 04:19 PM - Hector Sanjuan

Related to #3841

#4 - 07/13/2015 11:08 AM - Ruben S. Montero

- Assignee set to Javi Fontan

#5 - 07/14/2015 09:52 PM - Javi Fontan

Indeed there was an error checking for xen toolstack. There is a fix in master for that problem:

http://dev.opennebula.org/issues/3764

It should be searching for xend, not xen. With xend daemon only xm toolstack can be used. Without it xl is used.

#6 - 07/15/2015 04:47 PM - Javi Fontan

- Status changed from Pending to Closed

- Resolution set to duplicate

We'll reopen the case if this doesn't fix the problem.

#7 - 07/15/2015 04:48 PM - Javi Fontan

- Duplicates Bug #3764: xen toolstack incorrect detection in var/remotes/vnm/command.rb added