FreeNAS - Bug #6947
iSCSI luns should have unique serial number?
12/04/2014 12:10 AM - Neil McCarthy

<table>
<thead>
<tr>
<th>Status:</th>
<th>Resolved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Nice to have</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Josh Paetzel</td>
</tr>
<tr>
<td>Category:</td>
<td>OS</td>
</tr>
<tr>
<td>Target version:</td>
<td>9.3-RELEASE</td>
</tr>
<tr>
<td>Seen in:</td>
<td>9.3-M3</td>
</tr>
<tr>
<td>Severity:</td>
<td>New</td>
</tr>
<tr>
<td>Needs Merging:</td>
<td>Yes</td>
</tr>
<tr>
<td>Support Automation:</td>
<td>No</td>
</tr>
<tr>
<td>Hardware Suite Ticket:</td>
<td>n/a</td>
</tr>
<tr>
<td>Configuration:</td>
<td></td>
</tr>
<tr>
<td>ChangeLog:</td>
<td></td>
</tr>
<tr>
<td>Required:</td>
<td>No</td>
</tr>
<tr>
<td>Needs Doc:</td>
<td>Yes</td>
</tr>
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</table>

Description
In the definition for the iSCSI luns, all of the LUNs on each target seem to get the same serial number, should they be unique. This gives confusion when delivered to XenServer for instance.

i.e. extract from ctld.conf:

```
portal-group pg1

lun 0 {
  path /mnt/RAID1DR/PoolDB/pooldb.lun
  blocksize 512
  serial 0cc47a131bae00
  device-id "iSCSI Disk 0cc47a131bae000"
  size 20G
  option vendor "FreeBSD"
  option product "iSCSI Disk"
  option revision "0123"
  option naa 0x6589cf0000000000b5763a4d66c43386
}

lun 1 {
  path /mnt/RAID1DR/FSA/FSA.lun
  blocksize 512
  serial 0cc47a131bae00
  device-id "iSCSI Disk 0cc47a131bae001"
  size 500G
  option vendor "FreeBSD"
  option product "iSCSI Disk"
  option revision "0123"
  option naa 0x6589cf000000000040c0fd15f74886
}

lun 2 {
  path /mnt/RAID1DR/WSUS/WSUS.lun
  blocksize 512
}
serial 0cc47a131bae00
device-id "iSCSI Disk 0cc47a131bae002"
size 300G
option vendor "FreeBSD"
option product "iSCSI Disk"
option revision "0123"
option naa 0x6589cfc000000000f92c0411fd8a953c

Please see the attached screen shot for how XenServer sees this.

Associated revisions
Revision 5a8cb645 - 12/04/2014 09:53 AM - Josh Paetzel
Each LUN in a target needs a unique serial number.
Ticket: #6947

History
#1 - 12/04/2014 12:23 AM - Josh Paetzel
- Category set to 89
- Status changed from Unscreened to Screened
- Assignee set to Josh Paetzel

I'll fix this tomorrow

#2 - 12/04/2014 09:54 AM - Josh Paetzel
- Status changed from Screened to Resolved

Great catch. Thanks for pointing that out.

#3 - 12/04/2014 10:11 AM - Alexander Motin
Technically SCSI specs don't define scope of serial number. It can identify either device, or target or LUN on vendor's choice. So technically this was not a bug. Not that I object, but this change may cause additional transition effects.

#4 - 12/04/2014 11:05 AM - Neil McCarthy
I have had a little look into this, and it appears it might be to do with something in multipath that Xenserver (Redhat) uses the serial number to identify multiple paths to the same LUN.
This might explain why I see more paths to a target than I expect within the Xenserver GUI.
Thanks

#5 - 12/05/2014 06:07 PM - Josh Paetzel
Sasha,
 AGREED, however this change matches what the configurator for istgt used to do, so the disruption should only affect people who were running the beta.