

OsmoGSMTester - Bug #4389

ansible: osmo-gsm-tester host needs patchelf > 0.9.1

02/05/2020 06:21 PM - pespin

Status:	Resolved	Start date:	02/05/2020
Priority:	Normal	Due date:	
Assignee:	pespin	% Done:	90%
Category:			
Target version:			
Spec Reference:			
Description			
<p>So today while patching srsue with debian 9 (which ships with package patchelf 0.9-1+b1), I got into following issue:</p>			
<pre>\$ patchelf --set-rpath /osmo-gsm-tester-srsue/srslte/lib /osmo-gsm-tester-srsue/srslte/bin/srsue warning: working around a Linux kernel bug by creating a hole of 124461056 bytes in '/osmo-gsm-tes ter-srsue/srslte/bin/srsue' maximum file size exceeded</pre>			
<p>The command returns 1 and the rpath is not changed.</p>			
<p>reading a bit about the issue it seems to be a known patchelf bug fixed in newer versions: https://github.com/NixOS/patchelf/issues/47</p>			
<p>I had to test with a newer patchelf to have it working: version 0.9+52 which ships in current stable (buster, debian 10). https://packages.debian.org/buster/amd64/patchelf</p>			
<p>So I already installed that deb package (patchelf_0.9+52.20180509-1_amd64.deb) into osmo-gsm-tester Prod setup slave host (where we run stuff like srsue and osmo-trx) since that's where it's needed.</p>			
<p>This task is created as a reminder to add that manual installation of the package in ansible (osmo-ci.git).</p>			
<p>Update: It seems that 0.9+52 is causing issues on srsepc binary, during run, it fails with:</p>			
<pre>Inconsistency detected by ld.so: dl-version.c: 224: _dl_check_map_versions: Assertion `needed != N ULL' failed</pre>			
<p>Same goes for patchelf_0.10-2_amd64.deb.</p>			
<p>So it seems we might need to patch 0.9+1 with https://github.com/NixOS/patchelf/commit/f6886c2c33a1cf8771163919f3d20f6340c0ce38 ?</p>			

History

#1 - 02/05/2020 06:29 PM - pespin

It seems srsepc is not happy with newer patchelf while srsue requires a newer patchelf... we may end up with 2 installed patchelf...

#2 - 02/05/2020 06:31 PM - pespin

since srsue does stuff with netns, we may need to be root anyway, so it may not be worth it.

#3 - 02/05/2020 08:00 PM - laforge

On Wed, Feb 05, 2020 at 06:29:17PM +0000, pespin [REDMINE] wrote:

It seems srsepc is not happy with newer patchelf while srsue requires a newer patchelf... we may end up with 2 installed patchelf...

Isn't this something that should be filed as upstream bug [and hopefully resolved upstream]?

#4 - 02/10/2020 05:26 PM - pespin

Confirmed: I'm currently using last released tarball for srspec and still must use old debian9 patchelf to have everything working. Indeed, I need to investigate and submit the bug appearing on new release to upstream (the old one is known and fixed in the new release).

While it's not fixed, we must build and install manually the new release and use it only for srsue (I already added code to osmo-gsm-tester to support that).

#5 - 02/11/2020 12:13 PM - pespin

I created an upstream bug here, since the issue is still present in current patchelf master:

<https://github.com/NixOS/patchelf/issues/192>

#6 - 02/13/2020 04:52 PM - pespin

- Status changed from New to Feedback

- % Done changed from 0 to 90

We are meanwhile requiring a manually built patchelf-0.10 only used so far to patch srsue. It's add to ansible scripts here:

<https://gerrit.osmocom.org/c/osmo-ci/+/17128>

Most binaries (osmo-ggsn, rest of srs binaries) are patched with patchelf 0.9-1 coming with debian9. If at some point we move to debian10, then we need to build manually a patchelf 0.9 and use it at least for srsepc.

#7 - 06/25/2020 05:18 PM - pespin

It seems the issue is already fixed in patchelf by <https://github.com/NixOS/patchelf/pull/202>

Release patchelf 0.11 was already released and it already contains this fix.

So to me the best is going to be requiring patchelf >= 0.11 in osmo-gsm-tester in setups where srsLTE binaries are used.

I'll give it a try soon.

#8 - 06/25/2020 06:10 PM - pespin

Tested in our prod setup and 0.11 looks fine for both 2G and 4G binaries.

<https://gerrit.osmocom.org/c/osmo-ci/+/19015> ansible/gsm-tester: Install patchelf 0.11 on PATH
<https://gerrit.osmocom.org/c/osmo-gsm-tester/+/19016> Drop using patchelf out of PATH

#9 - 06/26/2020 09:29 AM - pespin

- Status changed from Feedback to Resolved