

Replicant - Issue #1263

Security revaluation pack [until Android 4.4.3 r1]

04/02/2015 09:54 PM - My Self

Status:	Closed	Start date:	04/02/2015
Priority:	High	Due date:	
Assignee:	My Self	% Done:	100%
Category:	Security	Estimated time:	0.00 hour
Target version:	Any version	Spent time:	0.00 hour
Resolution:	fixed	Grant:	
Device:		Type of work:	

Description

I've crawled the unofficial changelog script [<http://aosp.changelog.to>] by using these search criterias:

"CVE"; "security"; "vulnerability" to make a list of the following security patches, which were missing in Replicant 4.2 (for now):

- JDQ39 (4.2.2_r1) to JWR64 (4.3_r0) [<http://aosp.changelog.to/aosp-JDQ39-JWR64.html>]
 - <https://android.gogglesource.com/platform/frameworks/base/+68b13ba>
 - <https://android.gogglesource.com/platform/packages/apps/Phone/+fff2f9b>
Secure broadcasts, which prevents 3rd party spoofing.
Bug: 7622253
Patch-file #1: Bugfix-7622253.patch
Patch-file #2: Bugfix-7622253-Phone.patch
 - <https://android.gogglesource.com/platform/frameworks/base/+a2bdffe>
Prevent SecurityException from crashing Recents
Bug: 6787477
Patch-file: Bugfix-6787477.patch
 - <https://android.gogglesource.com/platform/libcore/+67ff477>
Fix Security2Test counting
The test was counting the wrong thing. The alias code path is only triggered by X509 and X.509. This worked when there was only 2 providers that pointed at the opposites. When there were three the problem showed up since it wasn't incrementing the right one.
Patch-file: Fix-Security2Test-counting.patch
 - <https://android.gogglesource.com/platform/cts/+1b08aab>
Add character devices to the insecure devices test.
Patch-file: Add-char-dvc2insec-dvc-test.patch
 - <https://android.gogglesource.com/platform/cts/+96bc825>
BannedFilesTest: Detect devices vulnerable to the cmdclient privilege escalation bug.
Patch-file: Fix-cmdclient-BannedFilesTest.patch
 - <https://android.gogglesource.com/platform/packages/apps/Email/+54c88ff>
Show an error on security exception for attachments.
This uses an existing notification for bad forwarding. The text is a bit odd ("Attachment not forwarded") but avoids adding new text right now, and at least conveys the error.
Bug: 8417004
Patch-file: Bugfix-8417004.patch
 - <https://android.gogglesource.com/platform/packages/apps/Email/+5ab92ca>
Ensure security policy notifications are shown
Bug: 8510828
Patch-file: Bugfix-8510828.patch
- JDQ39 (4.2.2_r1) to JSS15J (4.3_r2.1) [<http://aosp.changelog.to/aosp-JDQ39-JSS15J.html>]
 - <https://android.gogglesource.com/platform/cts/+deadf91>
Add test for CVE-2013-2094
Detect CVE-2013-2094, the perf_event_open exploit. A patch for this issue can be found at <http://git.kernel.org/cgi/linux/kernel/git/torvalds/linux.git/commit/?id=8176cced706b5e5d15887584150764894e94e02f>
Bug: 8962304
Patch-files: CVE-2013-2094.patch
Additionally please [git] add this files to the following path:
 - tests/tests/security/jni/android_security_cts_NativeCodeTest.cpp
 - tests/tests/security/src/android/security/cts/NativeCodeTest.javaThese two files also includes the following two more Patches:
 - <https://android.gogglesource.com/platform/cts/+aa93584>

CVE-2013-4254: detect perf_event validate_event bug
Credit: https://github.com/deater/perf_event_tests/blob/master/exploits/arm_perf_exploit.c
More info: <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-4254>
Bug: 11260636
This patch is from the Android diff of: JSS15J (4.3_r2.1) to KRT16M (4.4_r1) -
<http://aosp.changelog.to/aosp-JSS15J-KRT16M.html>
• <https://android.googlesource.com/platform/cts/+ba28fe6>
Add test for CVE-2014-1710.
Detect devices vulnerable to CVE-2014-1710
Bug: 13539903
This patch is from the Android diff of: KOT49H (4.4.2_r1) to KTU84L (4.4.3_r1) -
<http://aosp.changelog.to/aosp-KOT49H-KTU84L.html>
Patch-package: CVE-2013-2094.zip (containing the files above)

- JSS15J (4.3_r2.1) to KRT16M (4.4_r1) [<http://aosp.changelog.to/aosp-JSS15J-KRT16M.html>]
 - <https://android.googlesource.com/platform/cts+/ed54695>
AppSecurity: Add traffic stats test, and fix file access test
Bug: 10349057
Patch-file: Bugfix-10349057.patch
 - Fix the private file access test which would fail because the path was wrong.
 - Add a test that ensures the private file is actually "not accessible" because it can't be as opposed to it not being there: the new test accesses a public file created at the same time as the private file.
 - Add tests around traffic stats
 - add internet permission to app that creates data.
 - generate private traffic stats (tagged sockets).
 - read back traffic stats to make sure that only public stats are visible.
- KOT49H (4.4.2_r1) to KTU84L (4.4.3_r1) [<http://aosp.changelog.to/aosp-KOT49H-KTU84L.html>]
 - <https://android.googlesource.com/platform/cts+/0e2d6d9>
CtsVerifier test for lock screen vulnerability fix.
Lock screen credential reset w/o previous credentials.
The test asks the user to first set a lock screen password and then launch an intent to change it, using an EXTRA that was not being properly validated before the vulnerability was fixed.
Bug: 9858403
Patch-package: Bugfix-9858403.zip (containing the files above)
Patch-files: Bugfix-9858403.patch
Additionally please [git] add this files to the following path:
 - apps/CtsVerifier/res/layout/pass_fail_lockconfirm.xml
 - apps/CtsVerifier/src/com/android/cts/verifier/security/LockConfirmBypassTest.java

The only (big) part I've leaved open yet is OpenSSL, which I will provide the next time...

History

#1 - 04/02/2015 11:36 PM - My Self

I've sent the patch files to the mailing list:

- (security-patch-bunch 1/2) <http://lists.osuosl.org/pipermail/replicant/Week-of-Mon-20150330/000668.html>
- (security-patch-bunch 2/2) <http://lists.osuosl.org/pipermail/replicant/Week-of-Mon-20150330/000670.html>

#2 - 07/23/2015 10:04 PM - My Self

- File patchset_up_to_4.4.3.zip added

In the meanwhile there were made some changes on the Replicant sources, which makes it necessary to re-adjust the two patch-files:

- Bugfix-7622253.patch and
- Bugfix-7622253-Phone.patch

again. So I decided to attach all the current patches listed above, (and tested with the current Replicant 4.2 sources) on this ticket. After flashing the patched Replicant, I've tested my productive device several months, (and the 2 re-adjusted patches, several weeks) without any misbehavior.

@everyone: please review the patches and apply them if you like.

#3 - 08/10/2015 01:51 PM - My Self

- File patchset_up_to_4.4.3.zip added

I've revised the "Bugfix-7622253.patch" again, (careless mistake) to fit it to the current codebase.
I've decided to attach the complete patchset again, (hopefully the last time).

PS: Because it was unspoken until now, please respect the order of the single patches, as shown above.
PPS: (for those who doesn't know): to "[git] add" the files, like mentioned above, just copy/move the files in place and use:
git add .
git commit -m "Think of something nice"

Have fun.

#4 - 08/24/2015 08:48 PM - My Self

- % Done changed from 0 to 100

#5 - 08/26/2015 11:59 AM - My Self

- File deleted (patchset_up_to_4.4.3.zip)

#6 - 08/26/2015 12:00 PM - My Self

- File deleted (patchset_up_to_4.4.3.zip)

#7 - 08/26/2015 12:00 PM - My Self

- File patchset_up_to_4.4.3.zip added

#8 - 08/31/2015 03:50 PM - Paul Kocialkowski

- Status changed from New to Closed

- Resolution set to fixed

Merged the bits that don't relate to the CTS, thanks a lot!

Files

patchset_up_to_4.4.3.zip	23.9 KB	08/26/2015	My Self
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