

find out?	the users sideloaded a wrong apk. Is there a way for us to
st@gmail.com <st@gmail.com><u>#5</u></st@gmail.com>	Jun 15, 2018 06:56AM
I'm experiencing the same issue with Realm and Android App Bundle:	
Caused by com.getkeepsafe.relinker.MissingLibraryException: lib/armeabi/librealm-jni.so at com.getkeepsafe.relinker.a.a(ApkLibraryInstaller.java:85) at com.getkeepsafe.relinker.c.c(ReLinkerInstance.java:180) at com.getkeepsafe.relinker.c.a(ReLinkerInstance.java:136) at com.getkeepsafe.relinker.b.a(ReLinker.java:70) at com.getkeepsafe.relinker.b.a(ReLinker.java:57) at io.realm.internal.l.a(RealmCore.java:60) at io.realm.v.a(Realm.java:258)	
Strangely only on devices which use MediaTek chipsets like:	
Quantum MUV PRO - MediaTek MT6753 Lenovo PHAB 2 Plus - MediaTek MT8783 Xperia XA - MediaTek MT6755 Helio P10 Sony Xperia XA1 Ultra Dual - MediaTek MT6757 Helio P20	
Bildschirmfoto 2018-06-14 um 22.50.51.png 293 KB View Download	
dm@remitly.com <dm@remitly.com> #6</dm@remitly.com>	Jun 22, 2018 07:01AM
I have also just encountered a similar issue (with the React Native native lib in our case) while doing a state you to the "Android vitals" section of your Play console, and look at the Crashes tab, you can filter results So far I am only seeing the native library crash for under the "Installed from elsewhere" category, which could be that were not installed through the official play store channel.	by Play store installs vs apps installed from elsewhere.
to@blueapron.com <to@blueapron.com><u>#7</u></to@blueapron.com>	Jun 27, 2018 12:00AM
FWIW, I looked at the same filter. On my app, I've seen 175 instances of this crash in the last seven days v "installed from Play". So while this is definitely more prevalent if the build if sideloaded, it still seems to he	
This seems to occur mostly on Android 8.0 - 97%+ of these crashes are from 8.0/8.1 devices.	
dm@remitly.com <dm@remitly.com> #8</dm@remitly.com>	Jun 27, 2018 06:13AM
Your observation is correct - after letting our app roll out to a larger percentage of users, I have started se 25% of total users I would say. Overall this is a little troubling. Maybe modded/non-standard Android OSer reach out to Play's support team personally to get their opinion on this.	• • •
an@google.com <an@google.com><u>#9</u></an@google.com>	Jun 27, 2018 07:37PM
Note: Realm uses ReLinker https://github.com/KeepSafe/ReLinker https://medium.com/keepsafe-engineering/the-perils-of-loading-native-libraries-on-android-befa49dce2dl	<u>b</u>
christophwies@, Can you attach a sample?	
ch@gmail.com <ch@gmail.com> #10</ch@gmail.com>	Jun 28, 2018 03:51PM
what do you mean with sample? Stacktrace is already there. You mean the Bundle?	
le@google.com <le@google.com><u>#11</u></le@google.com>	Jul 4, 2018 03:28AM
I had a quick look at the ReLinker source code and I think I understand the issue now:	
ReLinker loads the native library directly from the APK file, without using the OS' System.load() or System the native libraries in the base APK, whereas with the App Bundle, the native libraries are in config splits (libraries are actually in base-x86.apk, base-armeabi.apk, etc.).	
Source: https://github.com/KeepSafe/ReLinker/blob/master/relinker/src/main/java/com/getkeepsafe/relinker/Allnstead of searching in "sourceDir", ReLinker should be searching over the different directories under "spli	
ma@gmail.com <ma@gmail.com>_#12</ma@gmail.com>	Jul 10, 2018 03:10AM
Got the same issue and here's what I've spotted Such crashes are happening only on devices that in some cases have a x86 arch, and sometimes armeab	ii (armeabi-v7a)

So, I got crashes on ASUS: ZenFone 2(ZE551ML) ZenPad C 7.0 (Z170C) Samsung: Galaxy S4 Galaxy Tab A 7.0 SM-G955F All of these devices have look like this in Google Play Device Catalog Screen Shot 2018-07-09 at 20.09.04.png 45 KB View Download ma...@gmail.com <ma...@gmail.com>#13 Jul 10, 2018 03:18AM When you come to an Artifact library, and try to download an APK for a specific device, here's what you got ZE551ML - downloads APK with x86 ABI split - crashes only on armeabi Z170C - same dream2lte (Samsung Galaxy S8+) - downloads arm64 - crashes on armeabi So you got an idea I'm not sure how do the Google Play choose which APK to install on a particular user device, but it really does it wrong ma...@gmail.com <ma...@gmail.com> #14 Jul 10, 2018 03:20AM (Proof of concept) Screen Shot 2018-07-09 at 20.19.06.png 103 KB View Download le...@google.com <le...@google.com>#15 Jul 10, 2018 06:38AM The bug is tracked here on ReLinker's GitHub repo: https://github.com/KeepSafe/ReLinker/issues/44 ch...@gmail.com <ch...@gmail.com> #16 Nov 8, 2018 07:15PM Relinker have fixed this issue and released a fix in Relinker 1.3.0, so I think this issue can be closed kb...@yelp.com <kb...@yelp.com> #17 Nov 14, 2018 10:10AM This issue does not appear to be fixed by Relinker 1.3.0. We're still seeing this crash from Play Store installed app bundles when using Realm 5.7 (Relinker 1.3.0. was added in 5.6). According to the Play console it's about ~1000 crashes from Play Store installed app bundles, and Bugsnag is reporting about ~4000 crashes overall (not sure how many are side loads vs from the Play Store). Sadly, our stacktrace doesn't mention what path it is trying to load: Caused by: com.getkeepsafe.relinker.MissingLibraryException: at com.getkeepsafe.relinker.ApkLibraryInstaller.installLibrary\$757ca6fb (ApkLibraryInstaller.java:123) at com.getkeepsafe.relinker.ReLinkerInstance.loadLibraryInternal (ReLinkerInstance.java:180) at com.getkeepsafe.relinker.ReLinkerInstance.loadLibrary\$11a583b2 (ReLinkerInstance.java:136) at com.getkeepsafe.relinker.ReLinker.loadLibrary (ReLinker.java:70) at com.getkeepsafe.relinker.ReLinker.loadLibrary (ReLinker.java:57) at io.realm.internal.RealmCore.loadLibrary (RealmCore.java:60) at io.realm.Realm.init (Realm.java:269) Both Bugsnag and the Play console show a majority of affected devices are newer Samsung devices (S9, S9+, Note9, S8). Bugsnag also reports that ~90% of the crashes report an abi triplet of [arm64-v8a, armeabi-v7a, armeabi]. We have been unable to reproduce the issue on a Samsung S9 by downloading the bundle through the Play Store or using bundletool, but are planning on adding more logging to verify that the apk downloaded contains at least one of the abi types the device supports. le...@google.com <le...@google.com>#18 Nov 14, 2018 10:15AM Have you tried sideloading only the base-master.apk to see if the same stacktrace can be reproduced? You can extract the base-master.apk from the APK Set generated by bundletool (using the "bundletool extract-apks" command for example). kb...@yelp.com <kb...@yelp.com> #19 Nov 14, 2018 01:29PM Just sideloading the base-master.apk on the S9 replicates the crash and stacktrace. Though this is expected is it not since the split native libraries would be missing? le...@google.com <le...@google.com>#20 Nov 14, 2018 10:26PM Yes, it's expected, but if it wasn't the same stacktrace, it may have indicated that the issue was not a split APK missing. Now, I'm more confident that it's a split APK not being installed and not an Android platform issue. This all indicates that those would be sideloaded APKs. We are working on ways to mitigate this issue,

kb@yelp.com <kb@yelp.com> <u>#21</u></kb@yelp.com>	Nov 15, 2018 07:49AM	፧
I think I'm a bit confused. Are you saying all the crashes are because of sideloads? What about the crashes the Play Console reports through the Play Store?	are from apps installed	
le@google.com <le@google.com><u>#22</u></le@google.com>	Nov 15, 2018 09:49PM	:
Assigned to le@google.com.		
That's a good point, let me have a closer look.		
le@google.com <le@google.com><u>#23</u></le@google.com>	Nov 20, 2018 01:30AM	:
Marked as fixed.		
The source of the install can unfortunately be faked quite easily with "adb" and it looks like a bunch of users have learnt to do that (for sure of yet). We haven't received any end-user report either that an install from Play was failing for them. A few other developers are none of them have been able to reproduce the issue either. All of this seems to confirm that the issue is indeed sideloading (with for some users faking the source of the install) so I will close to	facing the same issue and	-
If you have any end-user reporting that the install is failing when installing from Play store, feel free to re-open this bug providing the	details.	
Note that we are also actively working on a solution to avoid the crashes on the users having installed only a subset of the required a remove those crashes from your reports altogether. Stay tuned.	APKs. This should help	
at@bandlab.com <at@bandlab.com>#24</at@bandlab.com>	Feb 21, 2019 04:26PM	:
We started seeing a similar issue in our app since we switched to app bundle: we have ~2k google play console crash reports with U app tries to load our custom native library (we are not using Relinker).	nsatistiedLinkError when	the
80% of the crashes are from google play installs, though we still suspect it has to do with sideloading of our app.		
Is there anything we can do, or any open issue to follow regarding this?		
le@google.com <le@google.com><u>#25</u></le@google.com>	Feb 21, 2019 09:15PM	:
You can track https://issuetracker.google.com/issues/111233819 We should have a solution ready soon.		
vi@gmail.com <vi@gmail.com> #26</vi@gmail.com>	Feb 3, 2020 09:48PM	:
Similar issue com.getkeepsafe.relinker.MissingLibraryException: librealm-jni.so		
le@google.com <le@google.com><u>#27</u></le@google.com>	Feb 3, 2020 10:41PM	:
Re comment #26, unfortunately your comment does not provide enough information to help you.		
he@globant.com <he@globant.com> #28</he@globant.com>	Sep 28, 2023 07:25AM	:
Hi I recently started getting missing link error on arm v7a architectures:		
Exception java.lang.UnsatisfiedLinkError: dlopen failed: "/data/data/com.my.app/app_lib/librealm-jni.so.10. at java.lang.Runtime.load0 (Runtime.java:928) at java.lang.System.load (System.java:1633)	9.0" has bad ELF magi	. C
at com. getkeepsafe. relinker. SystemLibraryLoader. loadPath		
at com. getkeepsafe. relinker. ReLinkerInstance. loadLibraryInternal at com. getkeepsafe. relinker. ReLinkerInstance. loadLibrary		
at com. getkeepsafe. relinker. Relinker. loadLibrary at com. getkeepsafe. relinker. Relinker. loadLibrary		
at com.getkeepsafe.relinker.ReLinker.loadLibrary		
at io.realm.internal.RealmCore.loadLibrary		
at io.realm.Realm.initializeRealm		
at io.realm.Realm.init		

but this is still work in progress.

I use android bundles and have been doing so for the past year with no problem and suddenly it started to crash on devices for my last publication. Do you know if this is a known issue or something related to Google SDK 33 Policies?