Background limitation is not working as expected for most background services.

Fixed Bug P3 + Add Hotlist Dev-Preview-O Platform

STATUS UPDATE No update yet. Edit

DESCRIPTION oa...@gmail.com created issue #1 Jun 10, 2017 12:43AM

* Which Developer Preview build are you using?
OPP3.170518.006

* What device are you using?
Nexus 5X

* What are the steps to reproduce the problem?
Start the app (attached, targeting SDK 26), multiple services (from commonly used 3rd-party libraries in China) will be started.
Exit the app with "back" button.
Wait for 10 minutes.

* Issue Category
Framework (platform)

* What was the expected result?
Background services should be stopped as described in the Background Limitation section of Android O preview documents.

* What was the actual result?
Only 1 of the 4 services is stopped, other 3 services are still running in the background.

* Relevant logcat output.
W/ActivityManager: Stopping service due to app idle: u0a186 -1m49s219ms ...
(The only 1 service stopped, no such log for other 3 services)

* Test project. (shared attachment)
https://drive.google.com/file/d/0B1AWhwN2-E38aGhLOGI2QkctcHM/view?usp=sharing
"app-debug.apk" within the attachment is the prebuilt APK with debug signature.

In my observation and test, there are several tricks (commonly used by 3rd-party SDK libraries to keep their services from being killed by Android system or 3rd-party optimization tools) which could game the background limitation introduced in Android O:

1. Restart the service with a frequent periodic alarm (less than 5 minutes), causing the service being stopped and started again and again. (same applied to JobScheduler and SyncAdapter)
2. Restart the service inside its Service.onDestroy(), reviving the service immediately upon stopping.
3. Raise the background service to foreground service, when the screen is off to dodge from observation by user.
4. Bind to each other within 2 services, to fool the activity manager to consider them as bound services.
5. Restart service from JNI native library with "am start-service".

and many more I'm not aware, since they are mostly closed source libraries.

✓ Mentioned issues (4) ✓ Links (8) Hide all

Mentioned issues (4)

P3	RUN_IN_BACKGROUND OP only stops the first service when app declared multiple services.	"https://issuetracker.google.com/37126419"	qi...@ #147, oa...@ #159
--	--	"https://issuetracker.google.com/62524613"	ms...@ #156, po...@ #157, fr...@ #166, da...@ #168, hx...@ #221, fr...@ #224
P3	[dev preview] Users can no longer turn off foreground service notifications	"https://issuetracker.google.com/64196561"	ke...@ #194
P4	Is there a way for user to allow or deny the app's ForegroundService even if it design for Android O or not?	"https://issuetracker.google.com/64621473"	pe...@ #197, pe...@ #217

Links (8)

" https://drive.google.com/file/d/0B1AWhwN2-E38aGhLOGI2QkctcHM/v..."	oa...@ #1
"https://issuetracker.google.com/hotlists/461170"	ga...@ #67, ht...@ #136, ms...@ #156, po...@ #157, fr...@ #166, da...@ #168, hx...@ #221, fr...@ #224
"https://issuetracker.google.com/hotlists/461195"	ga...@ #67, ht...@ #136, ms...@ #156, po...@ #157, fr...@ #166, da...@ #168, hx...@ #221, fr...@ #224
"link: http://www.jianshu.com/p/0929c4012347"	ji...@ #183
"http://r.app"	ji...@ #183

See all related links

COMMENTS All comments ↓ Oldest first

qi...@gmail.com <qi...@gmail.com> #2 Jun 10, 2017 12:45PM

Reporter
Type
Priority
Severity
Status
Access
Assignee
Verifier
Collabor
CC

AOSP ID
app_issue
app_package_name
app_version_name
Reporter
Found In
Targeted
Verified
In Prod

support you

ma...@gmail.com <ma...@gmail.com> #3 Jun 10, 2017 12:47PM

This is quite malicious and should be concerned.

jo...@gmail.com <jo...@gmail.com> #4 Jun 10, 2017 12:48PM

services running background abusively has been a annoying problem for me, I need to find all kinds of third party apps to limit other apps' background services. Or my phone's battery dies!
Please fix this!

zh...@gmail.com <zh...@gmail.com> #5 Jun 10, 2017 12:52PM

support you

a2...@gmail.com <a2...@gmail.com> #6 Jun 10, 2017 12:52PM

support

[Deleted User] <[Deleted User]> #7 Jun 10, 2017 12:53PM

indeed ,some of the chinese apps are terrible.

lt...@gmail.com <lt...@gmail.com> #8 Jun 10, 2017 12:54PM

good job

ag...@gmail.com <ag...@gmail.com> #9 Jun 10, 2017 12:55PM

support

li...@gmail.com <li...@gmail.com> #10 Jun 10, 2017 12:55PM

The listed tricks are definitely malicious. Could you please fix this issue?

xu...@gmail.com <xu...@gmail.com> #11 Jun 10, 2017 12:55PM

Good

hr...@gmail.com <hr...@gmail.com> #12 Jun 10, 2017 12:56PM

support you

oa...@gmail.com <oa...@gmail.com> #13 Jun 10, 2017 01:00PM

Please just star this issue and avoid replying with "support" or so to keep the thread for focused discussion.
请为这个反馈点星即可，避免类似『支持』这样的回复，让反馈的讨论保持在核心问题上。

jd...@gmail.com <jd...@gmail.com> #14 Jun 10, 2017 01:03PM

Nice

co...@gmail.com <co...@gmail.com> #15 Jun 10, 2017 01:31PM

support

hy...@gmail.com <hy...@gmail.com> #16 Jun 10, 2017 01:33PM

support

hi...@lincolnguang.top <hi...@lincolnguang.top> #17 Jun 10, 2017 01:37PM

Support it

hi...@gmail.com <hi...@gmail.com> #18 Jun 10, 2017 01:39PM

support!

ye...@gmail.com <ye...@gmail.com> #19 Jun 10, 2017 01:49PM

Support!!

cl...@gmail.com <cl...@gmail.com> #20 Jun 10, 2017 01:57PM

Support

da...@gmail.com <da...@gmail.com> #21 Jun 10, 2017 02:00PM

Good Job & Support

ma...@gmail.com <ma...@gmail.com> #22 Jun 10, 2017 02:07PM

Support!

ye...@gmail.com <ye...@gmail.com> #23 Jun 10, 2017 02:21PM

Tencent, xiaomi and other Chinese companies develop the push mechanism that different from the FCM could unlimit by the Android 0, app background services depends on those push could live thus the limitation of system. Plz fix this issue.

zh...@gmail.com <zh...@gmail.com> #24 Jun 10, 2017 02:21PM

Yes, my phone was disturbed by this issue, so hope the official release to stop them.

ch...@gmail.com <ch...@gmail.com> #25 Jun 10, 2017 02:25PM

Plz fix this issue.My phone was disturbed by this issue also.

ch...@gmail.com <ch...@gmail.com> #26 Jun 10, 2017 02:42PM

Hope google can fix it,this just broken the android ecosystem.

16...@gmail.com <16...@gmail.com> #27 Jun 10, 2017 02:48PM

Support!

yu...@gmail.com <yu...@gmail.com> #28 Jun 10, 2017 02:57PM

Support

xi...@gmail.com <xi...@gmail.com> #29 Jun 10, 2017 02:58PM

Prevent hooliganism

bb...@gmail.com <bb...@gmail.com> #30 Jun 10, 2017 03:08PM

Support

vi...@gmail.com <vi...@gmail.com> #31 Jun 10, 2017 03:36PM

Support

yo...@gmail.com <yo...@gmail.com> #32 Jun 10, 2017 03:41PM

good job

w7...@gmail.com <w7...@gmail.com> #33 Jun 10, 2017 04:24PM

Support.

ho...@gmail.com <ho...@gmail.com> #34 Jun 10, 2017 04:26PM

Support

yo...@gmail.com <yo...@gmail.com> #35 Jun 10, 2017 04:26PM

Support

xp...@gmail.com <xp...@gmail.com> #36 Jun 10, 2017 04:48PM

Hope Google can fix it early, my phone has been troubled for a long time

lu...@gmail.com <lu...@gmail.com> #37 Jun 10, 2017 05:06PM

Hope Google can fix it early.

bo...@gmail.com <bo...@gmail.com> #38 Jun 10, 2017 05:11PM

Make the future better ✊

su...@gmail.com <su...@gmail.com> #39 Jun 10, 2017 05:22PM

Supprot

wh...@gmail.com <wh...@gmail.com> #40 Jun 10, 2017 05:23PM

support

se...@gmail.com <se...@gmail.com> #41 Jun 10, 2017 05:36PM

support

ch...@gmail.com <ch...@gmail.com> #42 Jun 10, 2017 05:38PM

support!

iw...@gmail.com <iw...@gmail.com> #43 Jun 10, 2017 06:21PM

support!

zh...@gmail.com <zh...@gmail.com> #44 Jun 10, 2017 06:46PM

The system should limit the apps from running in favor of the user's choice. So system should limit the inactive apps' background service so that it won't downgrade the experience.

bi...@gmail.com <bi...@gmail.com> #45 Jun 10, 2017 07:03PM

Support

cz...@gmail.com <cz...@gmail.com> #46 Jun 10, 2017 07:39PM

support

63...@gmail.com <63...@gmail.com> #47 Jun 10, 2017 08:11PM

support

mo...@gmail.com <mo...@gmail.com> #48 Jun 10, 2017 08:13PM

support

ll...@gmail.com <ll...@gmail.com> #49 Jun 10, 2017 08:15PM

support

ea...@gmail.com <ea...@gmail.com> #50 Jun 10, 2017 08:28PM

support, it can be quite useful

jh...@gmail.com <jh...@gmail.com> #51 Jun 10, 2017 08:30PM

support you.

---

hu...@gmail.com <hu...@gmail.com> #52 Jun 10, 2017 08:46PM

support

---

an...@gmail.com <an...@gmail.com> #53 Jun 10, 2017 09:10PM

support

---

xi...@gmail.com <xi...@gmail.com> #54 Jun 10, 2017 10:42PM

Plunk for writer!

---

ws...@gmail.com <ws...@gmail.com> #55 Jun 10, 2017 11:15PM

Support

---

fr...@gmail.com <fr...@gmail.com> #56 Jun 10, 2017 11:24PM

support

---

ja...@gmail.com <ja...@gmail.com> #57 Jun 10, 2017 11:37PM

plz fix this issue google! that's important for chinese users. we all try to protect android ecosystem.

---

ev...@gmail.com <ev...@gmail.com> #58 Jun 10, 2017 11:57PM

support

---

we...@gmail.com <we...@gmail.com> #59 Jun 11, 2017 12:37AM

support

---

ma...@gmail.com <ma...@gmail.com> #60 Jun 11, 2017 12:41AM

support

---

qq...@gmail.com <qq...@gmail.com> #61 Jun 11, 2017 12:46AM

我来自酷安。支持一下(´・ω・`)

---

c1...@gmail.com <c1...@gmail.com> #62 Jun 11, 2017 12:55AM

support you

---

jr...@gmail.com <jr...@gmail.com> #63 Jun 11, 2017 01:01AM

The question is very important, and I hope the government will pay attention to it

---

[Deleted User] <[Deleted User]> #64 Jun 11, 2017 01:05AM

I came to CoolApk.com .Support

---

gx...@gmail.com <gx...@gmail.com> #65 Jun 11, 2017 01:06AM

support

---

li...@gmail.com <li...@gmail.com> #66 Jun 11, 2017 01:06AM

Please, please, please

Make your comment HELPFUL to people who watches this issue and the Android team. Once you add a comment, everyone who is related to this issue will receive an email. So, please make your comment meaningful. If you just wanna support it, STAR it and that's enough.

ga...@gmail.com <ga...@gmail.com> #67 Jun 11, 2017 01:07AM

confirm.

2017-06-10 23:06 GMT+08:00 <buganizer-system+190602+62480012@google.com>:

- Show quoted text -

ja...@gmail.com <ja...@gmail.com> #68 Jun 11, 2017 01:07AM

酷安基佬前来支持

so...@gmail.com <so...@gmail.com> #69 Jun 11, 2017 01:08AM

support!

a5...@gmail.com <a5...@gmail.com> #70 Jun 11, 2017 01:23AM

来自酷安基佬的支持

[Deleted User] <[Deleted User]> #71 Jun 11, 2017 01:23AM

酷安出一份微薄之力

li...@gmail.com <li...@gmail.com> #72 Jun 11, 2017 01:25AM

come from cool apk

ye...@gmail.com <ye...@gmail.com> #73 Jun 11, 2017 01:29AM

This is a really serious problem.

mj...@gmail.com <mj...@gmail.com> #74 Jun 11, 2017 01:37AM

Dear respectable devs.I can see that you're trying to make a great progress in the combat against those "essential malware s".You know, in China, there's still a lot 4 u 2 do. I suggest that you shall add a customizable background policy and initialize them with a recommended one, that will help both advanced players and normal users. May be more, but I hope the issue of the background could be fixed in 2 generations, others are not as patient as we do :). Go check out Brevent.
From Coolapk.

we...@gmail.com <we...@gmail.com> #75 Jun 11, 2017 01:38AM

support

ji...@gmail.com <ji...@gmail.com> #76 Jun 11, 2017 01:44AM

support

hz...@gmail.com <hz...@gmail.com> #77 Jun 11, 2017 01:44AM

Good job! Hoping for the feedback from Google.

te...@gmail.com <te...@gmail.com> #78 Jun 11, 2017 01:45AM

support

ma...@gmail.com <ma...@gmail.com> #79 Jun 11, 2017 01:46AM

酷安支持大队

sm...@gmail.com <sm...@gmail.com> #80 Jun 11, 2017 01:50AM

Support

mi...@gmail.com <mi...@gmail.com> #81 Jun 11, 2017 01:51AM

100% support!!

im...@gmail.com <im...@gmail.com> #82 Jun 11, 2017 01:54AM

star

im...@gmail.com <im...@gmail.com> #83 Jun 11, 2017 01:54AM

star

gu...@gmail.com <gu...@gmail.com> #84 Jun 11, 2017 01:54AM

coolapk support!!!

ca...@gmail.com <ca...@gmail.com> #85 Jun 11, 2017 01:56AM

点星星啊，一群support刷屏

qq...@gmail.com <qq...@gmail.com> #86 Jun 11, 2017 01:58AM

coolapk support!!!酷安网友前来支援!

we...@gmail.com <we...@gmail.com> #87 Jun 11, 2017 02:01AM

Support!!

z7...@gmail.com <z7...@gmail.com> #88 Jun 11, 2017 02:07AM

Support!!

[Deleted User] <[Deleted User]> #89 Jun 11, 2017 02:12AM

酷安支持大队

li...@gmail.com <li...@gmail.com> #90 Jun 11, 2017 02:16AM

Support~

ar...@gmail.com <ar...@gmail.com> #91 Jun 11, 2017 02:17AM

coolapk，，🥰support

y1...@gmail.com <y1...@gmail.com> #92 Jun 11, 2017 02:22AM

star

y1...@gmail.com <y1...@gmail.com> #93 Jun 11, 2017 02:23AM

要点星星!

ma...@gmail.com <ma...@gmail.com> #94 Jun 11, 2017 02:35AM

来自酷安的支持，国内软件环境十分恶劣。希望能把这些流氓行为封杀让他们难以生存，尤其是腾讯和360这一类的全家桶软件最烦人

za...@gmail.com <za...@gmail.com> #95 Jun 11, 2017 02:36AM

Support (ᵔᴥᵔ)✧

m2...@gmail.com <m2...@gmail.com> #96 Jun 11, 2017 02:36AM

star

sh...@gmail.com <sh...@gmail.com> #97 Jun 11, 2017 02:36AM

support

fx...@gmail.com <fx...@gmail.com> #98 Jun 11, 2017 02:36AM

Support

sa...@gmail.com <sa...@gmail.com> #99 Jun 11, 2017 02:39AM

CoolApk gays' support

ti...@gmail.com <ti...@gmail.com> #100 Jun 11, 2017 02:41AM

大家能不能停下刷 Support 了，每一个 Starred 的人都 Gmail 都快刷爆了，这样毫无意义的 commit 很无聊的好吧？要真的支持麻烦点最上方的星星 OK?

qq...@gmail.com <qq...@gmail.com> #101 Jun 11, 2017 02:42AM

Support

q1...@gmail.com <q1...@gmail.com> #102 Jun 11, 2017 02:56AM

stat

sd...@gmail.com <sd...@gmail.com> #103 Jun 11, 2017 02:59AM

Hope you can deal with it

sh...@gmail.com <sh...@gmail.com> #104 Jun 11, 2017 03:06AM

support!!!

ni...@gmail.com <ni...@gmail.com> #105 Jun 11, 2017 04:37AM

software scums such as"TencentQQ" "WeChat" should be severely remedied ヽ(#`Д´)ノ

gu...@gmail.com <gu...@gmail.com> #106 Jun 11, 2017 05:10AM

前来支持

nt...@gmail.com <nt...@gmail.com> #107 Jun 11, 2017 05:14AM

support

li...@gmail.com <li...@gmail.com> #108 Jun 11, 2017 05:49AM

support

bu...@gmail.com <bu...@gmail.com> #109 Jun 11, 2017 05:54AM

Hope Google attention to this issue, concerned about China's Android users. Help us to solve the two procedures, the user does not have the relevant operation of the case to wake up each other, thank you (* ° ∀ °) = 3

sa...@gmail.com <sa...@gmail.com> #110 Jun 11, 2017 06:56AM

star

ta...@gmail.com <ta...@gmail.com> #111 Jun 11, 2017 08:01AM

support

lo...@gmail.com <lo...@gmail.com> #112 Jun 11, 2017 08:01AM

star

ta...@gmail.com <ta...@gmail.com> #113 Jun 11, 2017 08:02AM

support

li...@gmail.com <li...@gmail.com> #114 Jun 11, 2017 08:19AM

star

li...@gmail.com <li...@gmail.com> #115 Jun 11, 2017 08:21AM

中国许多应用不规范。常驻后台，求解决。

mi...@gmail.com <mi...@gmail.com> #116 Jun 11, 2017 08:26AM

support

wi...@gmail.com <wi...@gmail.com> #117 Jun 11, 2017 08:30AM

star

w1...@gmail.com <w1...@gmail.com> #118 Jun 11, 2017 09:16AM

star

we...@gmail.com <we...@gmail.com> #119 Jun 11, 2017 09:26AM

酷安基佬前来支持

a2...@gmail.com <a2...@gmail.com> #120 Jun 11, 2017 09:28AM

酷基前来支持

10...@qq.com <10...@qq.com> #121 Jun 11, 2017 09:33AM

酷安基佬前来支持

wc...@gmail.com <wc...@gmail.com> #122 Jun 11, 2017 09:33AM

fuck you tencent,fuck you kingsoft,fuck you wangyi ,fuck alibaba

10...@qq.com <10...@qq.com> #123 Jun 11, 2017 09:35AM

官方是时候该遏制住这些“毒瘤”了，都存在了好几年
要不是因为这群毒瘤，安卓绝对不是卡与慢的代名词

yx...@gmail.com <yx...@gmail.com> #124 Jun 11, 2017 10:31AM

haha,come from china

zh...@gmail.com <zh...@gmail.com> #125 Jun 11, 2017 10:53AM

支持作者

gu...@outlook.com <gu...@outlook.com> #126 Jun 11, 2017 11:01AM

The China's APP is very very…So Google Should …

ta...@gmail.com <ta...@gmail.com> #127 Jun 11, 2017 11:05AM

早日制服国内各种毒瘤应用，因为用户多有需求，才肆无忌惮的存在各种流氓权限、相互唤醒、推送各种广告。

ye...@gmail.com <ye...@gmail.com> #128 Jun 11, 2017 11:05AM

star

de...@gmail.com <de...@gmail.com> #129 Jun 11, 2017 11:31AM

The true enemy of Android in China is disorder.(

ms...@gmail.com <ms...@gmail.com> #130 Jun 11, 2017 12:04PM

support

jo...@gmail.com <jo...@gmail.com> #131 Jun 11, 2017 12:20PM

Support

zh...@gmail.com <zh...@gmail.com> #132 Jun 11, 2017 12:28PM

A serious problem in china with Google's absence.

82...@gmail.com <82...@gmail.com> #133 Jun 11, 2017 12:31PM

Well, it's really a serious problem especially in China. Sometimes even greenify can't solve them.

ya...@gmail.com <ya...@gmail.com> #134 Jun 11, 2017 01:00PM

Well,it's really a serious problem especially in china.It will damage battery's life

29...@gmail.com <29...@gmail.com> #135 Jun 11, 2017 01:05PM

支持

ht...@gmail.com <ht...@gmail.com> #136 Jun 11, 2017 01:09PM

support

2017年6月11日 11:05， <buganizer-system@google.com>写道：

- Show quoted text -

wu...@gmail.com <wu...@gmail.com> #137 Jun 11, 2017 01:51PM

support

th...@gmail.com <th...@gmail.com> #138 Jun 11, 2017 01:54PM

Support

ha...@gmail.com <ha...@gmail.com> #139 Jun 11, 2017 02:03PM

support！

rc...@gmail.com <rc...@gmail.com> #140 Jun 11, 2017 02:04PM

support

a1...@gmail.com <a1...@gmail.com> #141 Jun 11, 2017 02:19PM

support!!!

li...@gmail.com <li...@gmail.com> #142 Jun 11, 2017 02:38PM

Support!

ta...@gmail.com <ta...@gmail.com> #143 Jun 11, 2017 03:09PM

要支持请点击的上方星星，不要再发Support这没用的。

19...@gmail.com <19...@gmail.com> #144 Jun 11, 2017 04:19PM

star

cc...@gmail.com <cc...@gmail.com> #145 Jun 11, 2017 05:14PM

support.

go...@gmail.com <go...@gmail.com> #146 Jun 11, 2017 05:17PM

要支持请点击的上方Star，不要再发Support,请不要帮倒忙.

qi...@gmail.com <qi...@gmail.com> #147 Jun 11, 2017 06:42PM

Possible reason? https://issuetracker.google.com/issues/37126419

qi...@gmail.com <qi...@gmail.com> #148 Jun 11, 2017 07:05PM

@Dianne Hackborn @hackbod@google.com @hackbod Please take a look at this for Androd's healthy eco system. Thank you!

oa...@gmail.com <oa...@gmail.com> #149 Jun 11, 2017 08:45PM

Re #147: I believe so. Just tested with the initialization sequence of the integrated SDKs swapped. As a result, whichever in the last gets stopped in background, others survive.

BTW, please also review the potential abuse cases mentioned in the first post.

ai...@gmail.com <ai...@gmail.com> #150 Jun 12, 2017 12:44PM

Support.
Google ruthless remediation app wake up chaos it, the Chinese users that dire straits

cb...@gmail.com <cb...@gmail.com> #151 Jun 12, 2017 01:30PM

please don't send the "support" ,you can push the "star" button.
请别再发支持了，点击最上面的那个★图标就行了

am...@google.com <am...@google.com> Jun 12, 2017 02:36PM

Assigned to am...@google.com.

su...@gmail.com <su...@gmail.com> #152 Jun 12, 2017 05:42PM

Star

am...@google.com <am...@google.com> #153 Jun 12, 2017 07:54PM

Thank you for reporting this issue. We have shared this with our product and engineering team and will update this issue with more information as it becomes available.

la...@gmail.com <la...@gmail.com> #154 Jun 12, 2017 10:05PM

support！！！

po...@gmail.com <po...@gmail.com> #155 Jun 14, 2017 06:30PM

please don't send the "support" ,you can push the "star" button in the upper left corner.
请别再发送“支持”了，点一下左上角的 ★ 就行了

ms...@gmail.com <ms...@gmail.com> #156 Jun 14, 2017 08:03PM

我有发"支持"？也请你不要再给我发这封邮件了

2017-06-12 20:05 GMT+08:00 <buganizer-system@google.com>:

- Show quoted text -

po...@gmail.com <po...@gmail.com> #157 Jun 14, 2017 08:38PM

确实不是你发的 support，但是如果你 start 了该 issue，那么以后该 issues 有回复就会抄送给你的~
你可以在该 issues 右上角的"齿轮按钮"设置相关通知。

2017-06-14 18:03 GMT+08:00 <buganizer-system@google.com>:

- Show quoted text -

ar...@google.com <ar...@google.com> #158 Jun 15, 2017 07:56AM

Reassigned to oa...@gmail.com.

Could you please include the source for the app? It seems BackgroundLimitationTest.zip has only one service (unsure of the other 3 services): "GetuiPushService". That is the only one getting stopped after some time.

In addition, could you enumerate what the other apps that were included in the .zip are doing.

Please see the responses inline to the observations you've posted:
1. Restart the service with a frequent periodic alarm (less than 5 minutes), causing the service being stopped and started again and again. (same applied to JobScheduler and SyncAdapter)
1.1. Will not allow an app to bypass background check.

2. Restart the service inside its Service.onDestroy(), reviving the service immediately upon stopping.
2.1. Will not allow an app to bypass background check.

3. Raise the background service to foreground service, when the screen is off to dodge from observation by user.
3.1. Yes running a foreground service does bypass background check, but it must. Note we are working on more UX to help the user know about them doing activities when the screen is off.

4. Bind to each other within 2 services, to fool the activity manager to consider them as bound services.
4.1. Will not allow an app to bypass background check.

5. Restart service from JNI native library with "am start-service".
5.1. Will not allow an app to bypass background check. (This actually *no* different than calling Context.startService, so it is pointless to do this on any version of Android.)

If your test app is running a foreground service, that is probably what is allowing it to stay run. If so, and you remove that, I'd like to know if all the rest falls apart (I would expect so).

oa...@gmail.com <oa...@gmail.com> #159 Jun 15, 2017 11:56AM

Thanks very much for the detailed explanation on the potential abuse cases. But unfortunately, the source code of the 3rd-party SDK is not available, since they are closed-source libraries.
The BackgroundLimitationTest.zip integrated 4 different closed-source SDKs from the major vendors and SDK providers in China. All the 4 SDKs have declared their services within separate AndroidManifest.xml inside each module (one module for each SDK). The app module is just a integration point to include them all.

As you can see when the test app launches and runs in the foreground, it will start 4 service in the background, one for each integrated SDK (listed below with the result of "dumpsys service ...". When it is switched to the background, one of the 4 services stops (whichever starts first), but the other 3 remains running all the time. As mentioned in #147 and #149, I think the main reason that only 1 service gets stopped is due to a bug in the "ActiveServices.stopInBackgroundLocked()" where only the first service is added to the pending list, not all of them, as described in issue 37126419 (https://issuetracker.google.com/issues/37126419).

Could you please correct this bug in internal build and run the test app again, to check whether all the 4 services are fully stopped as expected? I'm not sure if there's any issue other than that to prevent all the 4 services from being stopped.

---------- Result of "dumpsys service ..." ----------

```
SERVICE .../com.xiaomi.push.service.XMPushService 64a8dff pid=3829
  Client:
    nothing to dump

SERVICE .../com.igexin.sdk.PushService 86bf6 pid=(not running)

SERVICE .../com.tencent.android.tpush.service.XGPushServiceV3 66396cf pid=3965
  Client:
    nothing to dump

SERVICE .../cn.jpush.android.service.PushService 73c57cc pid=3847
  Client:
    nothing to dump

SERVICE .../com.xiaomi.mipush.sdk.PushMessageHandler 68b8d0 pid=(not running)

SERVICE .../com.getui.demo.GetuiPushService b08e291 pid=3869
  Client:
    nothing to dump
```

am...@google.com <am...@google.com> #160 Jun 15, 2017 03:23PM

Reassigned to am...@google.com.

Thank you for the necessary information. We'll get back here if we need any information.

oa...@gmail.com <oa...@gmail.com> #161 Jun 16, 2017 01:53AM

Due to the massive abuse of foreground service, could you please consider giving user a chance to refuse or stop any foreground service started by an app, probably from the notification panel?

Currently many popular apps in China (even like QQ with 0.9 billion MAU) is forcing the foreground service without providing any related setting options for users. It has the power to do that with its dominant market share.

ha...@google.com <ha...@google.com> #162 Jun 16, 2017 03:49AM

Ah thanks, sorry for misunderstanding. Yes there is a bug in that code with stopping services. I'll take care of it.

ha...@google.com <ha...@google.com> #163 Jun 16, 2017 10:49AM

Marked as fixed.

Thanks for the report, verified fixed.

qq...@gmail.com <qq...@gmail.com> #164 Jun 17, 2017 07:39PM

support!

yh...@gmail.com <yh...@gmail.com> #165 Jun 26, 2017 11:22PM

Support

fr...@gmail.com <fr...@gmail.com> #166 Jun 27, 2017 12:17AM

support

On Jun 26, 2017 21:22, <buganizer-system@google.com> wrote:

Replying to this email means your email address will be shared with the
team that works on this product.

https://issuetracker.google.com/issues/62480012

Changed

*yh...@163.com <yh...@163.com> added comment #165
<https://issuetracker.google.com/issues/62480012#comment165>:*
Support

_____

*Reference Info: 62480012 Background limitation is not working as expected
for most background services.*
component: Android Public Tracker > Android Developer Preview
status: Fixed
reporter: oa...@gmail.com
assignee: am...@google.com
cc: ar...@google.com, ha...@google.com, na...@google.com, and 1 more
type: Bug P3 S3
blocked by: 62524613 <https://issuetracker.google.com/issues/62524613>
hotlist: Dev-Preview-O <https://issuetracker.google.com/hotlists/461170>,
Platform <https://issuetracker.google.com/hotlists/461195>

Generated by Google IssueTracker notification system

You're receiving this email because you are subscribed to updates on Google
IssueTracker issue 62480012
<https://issuetracker.google.com/issues/62480012> where you have the role:
starred.

li...@gmail.com <li...@gmail.com> #167 Jul 2, 2017 10:08AM

Support you !

da...@gmail.com <da...@gmail.com> #168 Jul 8, 2017 10:17AM

You are making a difference.Good Job.

2017年7月2日 08:08， <buganizer-system@google.com>写道:

- Show quoted text -

du...@gmail.com <du...@gmail.com> #169 Jul 20, 2017 01:31PM

希望能靠谱(*˚ ▯▯)

mo...@gmail.com <mo...@gmail.com> #170 Jul 21, 2017 10:30PM

support

da...@gmail.com <da...@gmail.com> #171 Jul 25, 2017 02:27PM

Support

mp...@gmail.com <mp...@gmail.com> #172 Jul 25, 2017 04:01PM

滋瓷

jf...@gmail.com <jf...@gmail.com> #173 Jul 25, 2017 04:20PM

点星星啊，不要再发support

wa...@gmail.com <wa...@gmail.com> #174 Jul 26, 2017 03:19AM

Can not be better!!!

go...@gmail.com <go...@gmail.com> #175 Jul 26, 2017 01:39PM

Thanks for fixing this issue.
BTW, could anyone tell me that if there is any way to see the related codes change for this bug?

mi...@gmail.com <mi...@gmail.com> #176 Jul 26, 2017 05:33PM

Great . Thank you man ~

[Deleted User] <[Deleted User]> #177 Jul 28, 2017 04:51AM

Support

ji...@gmail.com <ji...@gmail.com> #178 Jul 28, 2017 05:58PM

In the latest qq is off the notice has been occupied by the background

deleted Restricted
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0 B

se...@gmail.com <se...@gmail.com> #179 Jul 30, 2017 01:08AM

support

ji...@gmail.com <ji...@gmail.com> #180 Aug 4, 2017 02:28AM

This system can give the user closes the Foreground Service port, malicious software to use the port to usurp the front desk

ke...@gmail.com <ke...@gmail.com> #181 Aug 7, 2017 05:14PM

@178

Your screenshots show that the app was using the foreground Service which is displayed (to the users) as "app is running in the background".
That's it.

I aggre with you that the user should be able to set an optional rule that the foreground service will only be preserved when part of the app(exclude notification) is displayed on the screen.
However the Android team seems do not want restrict foreground Service at all.

Currently you have no choice but tools like greenify/brrevent, or similar private ROM implementations as features from certain manufacturer as a workaround,

ji...@gmail.com <ji...@gmail.com> #182 Aug 10, 2017 02:49AM

@181

I also think that this api to join the user to disable the option, but not to sdk version as long as the call this api will have this option!
This port is particularly disgusting and unsafe to just use the rogue app
This thing can provide service level, plus can not let the user choose to continue or close This is obviously to the user watched his cell phone was raped, and rape to death, because the system does not require users to disable.

Android8.0 also have a face that security, and is not to the developers of the most secure will not be killed off the service and broadcast method Yeah, so app can have all the services completely occupied the phone all the resources (It may not be enough resources for mobile phones)

ji...@gmail.com <ji...@gmail.com> #183 Aug 10, 2017 03:22AM

There is one here
link： http://www.jianshu.com/p/0929c4012347

On the Android7.1.1 can not hide Foreground Service Notification analysis

I believe a lot of use Nexus6p or Pixel mobile phone as a development machine students in the upgrade to Android7.1.1 version will be found in the notice column inexplicable will be a lot more notice column, as shown below:

Which is the top of a black hand Q, the following several people can see the name. I was the first reaction is one of our conventional process to protect the program, that is, start the Foreground Service and hide the Notification program in the new system failure. At the same time can also be found, hand Q and the US group as well as QQ music and other applications have adopted the security program. Students who are unfamiliar with the program can refer to here.

So, what did Google do to make the program fail? Fortunately, Google has released the Android25 source, the specific reason Well, only through RTFSC (Read the fucking source code) to find the.

First of all, we know that to hide Notification, we need to call stopForeground (true), follow up this method

```
public final void stopForeground(boolean removeNotification) {
            stopForeground(removeNotification ?STOP_FOREGROUND_REMOVE : 0);
}
```

Continue to follow up

```
public final void stopForeground(@StopForegroundFlags int flags) {
  try {
        mActivityManager.setServiceForeground(
             new ComponentName(this, mClassName), mToken, 0, null, flags);
} catch (RemoteException ex) {
 }
}
```

Found that the final call is mActivityManager setServiceForeground method, where the value of flags is STOP_FOREGROUND_REMOVE.
Ok, let's keep up with the setServiceForeground () method. Here first find the statement of the mActivityManager, as follows:

```
private IActivityManager mActivityManager = null;
```

Find the new target IActivityManager, continue to follow up and find that the IActivityManager is an interface, and the setServiceForeground () method is an empty implementation, as follows:

```
public void setServiceForeground(ComponentName className, IBinder token,
int id, Notification notification, int flags) throws RemoteException;
```

This time, you will find that follow up here has been unable to follow up in Android Studio, because in Android Studio can not find its implementation class. Here is a good tool for reading Android source code - Source Insight.
Finally, we found the IActivityManager implementation class android.app.ActivityManagerNative (the specific process does not expand here), see it on the setServiceForeground () method of specific implementation, as follows:

```
public void setServiceForeground(ComponentName className, IBinder token,
          int id, Notification notification, int flags) throws RemoteException {
      Parcel data = Parcel.obtain();
      Parcel reply = Parcel.obtain();
      data.writeInterfaceToken(IActivityManager.descriptor);
      ComponentName.writeToParcel(className, data);
      data.writeStrongBinder(token);
      data.writeInt(id);
      if (notification != null) {
         data.writeInt(1);
         notification.writeToParcel(data, 0);
      } else {
         data.writeInt(0);
      }
      data.writeInt(flags);
      mRemote.transact(SET_SERVICE_FOREGROUND_TRANSACTION, data, reply, 0);
      reply.readException();
      data.recycle();
      reply.recycle();
   }
```

You can see that there is still no actual operation here, but through the Binder mechanism to call the remote service (the Android Binder mechanism do not understand the students please consult the relevant information, do not discuss here). Seemingly clues and broken, where the service side in the end which is it? This time Source Insight can play its role, we quickly find com.android.server.am.ActivityManagerService this class inherited from ActivityManagerNative and rewrite the setServiceForeground () method, as follows

```
@Override
   public void setServiceForeground(ComponentName className, IBinder token,
          int id, Notification notification, int flags) {
      synchronized(this) {
         mServices.setServiceForegroundLocked(className, token, id, notification, flags);
      }
```

```
    }
```

Ha, and again to find a clue. You can see that the final call to the mServices setServiceForegroundLocked () method. So what is mServices?
You can find the mServices statement as follows:

```
final ActiveServices mServices;
```

Well, we continue to follow the ActiveServices class, the class's complete class name is: com.android.server.am.ActiveServices, its setServiceForegroundLocked () method is defined as follows:

```
 public void setServiceForegroundLocked(ComponentName className, IBinder token,
        int id, Notification notification, int flags) {
    final int userId = UserHandle.getCallingUserId();
    final long origId = Binder.clearCallingIdentity();
    try {
        ServiceRecord r = findServiceLocked(className, token, userId);
        if (r != null) {
            if (id != 0) {
                if (notification == null) {
                    throw new IllegalArgumentException("null notification");
                }
                if (r.foregroundId != id) {
                    cancelForegroudNotificationLocked(r);
                    r.foregroundId = id;
                }
                notification.flags |= Notification.FLAG_FOREGROUND_SERVICE;
                r.foregroundNoti = notification;
                r.isForeground = true;
                r.postNotification();
                if (r.app != null) {
                    updateServiceForegroundLocked(r.app, true);
                }
                getServiceMap(r.userId).ensureNotStartingBackground(r);
                mAm.notifyPackageUse(r.serviceInfo.packageName,
                                     PackageManager.NOTIFY_PACKAGE_USE_FOREGROUND_SERVICE);
            } else {
                if (r.isForeground) {
                    r.isForeground = false;
                    if (r.app != null) {
                        mAm.updateLruProcessLocked(r.app, false, null);
                        updateServiceForegroundLocked(r.app, true);
                    }
                }
                //注意这里的STOP_FOREGROUND_REMOVE
                if ((flags & Service.STOP_FOREGROUND_REMOVE) != 0) {
                    cancelForegroudNotificationLocked(r);
                    r.foregroundId = 0;
                    r.foregroundNoti = null;
                } else if (r.appInfo.targetSdkVersion >= Build.VERSION_CODES.LOLLIPOP) {
                    r.stripForegroundServiceFlagFromNotification();
                    if ((flags & Service.STOP_FOREGROUND_DETACH) != 0) {
                        r.foregroundId = 0;
                        r.foregroundNoti = null;
                    }
                }
            }
        }
    } finally {
        Binder.restoreCallingIdentity(origId);
    }
}
```

This method is more code, we can focus on the place I note. Remember the flag I mentioned earlier STOP_FOREGROUND_REMOVE? Aha, it seems that we finally found a place. See here, cancelForegroudNotificationLocked () method should be where we are looking for, and continue to follow up, Sure, here the implementation of the real operation, the code is as follows:

```
 private void cancelForegroudNotificationLocked(ServiceRecord r) {
    if (r.foregroundId != 0) {
        // First check to see if this app has any other active foreground services
        // with the same notification ID.  If so, we shouldn't actually cancel it,
        // because that would wipe away the notification that still needs to be shown
        // due the other service.
        ServiceMap sm = getServiceMap(r.userId);
        if (sm != null) {
            for (int i = sm.mServicesByName.size()-1; i >= 0; i--) {
                ServiceRecord other = sm.mServicesByName.valueAt(i);
                if (other != r && other.foregroundId == r.foregroundId
                        && other.packageName.equals(r.packageName)) {
                    // Found one!  Abort the cancel.
                    return;
                }
            }
        }
        r.cancelNotification();
    }
}
```

Now all really like white, the original system will be judged here, if there is the same id the existence of Notification, then directly return! The The We look at the above method is the meaning of the note.

in conclusion

Although the hidden Foreground Service Notification in the Android SDK 25 on the failure, but the security effect is not affected.
Feeling should be no matter how many api can use this api call each other and service has been running it
This is really a better rogue funny to provide rogue apps

deleted
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Restricted

ha...@google.com <ha...@google.com> #184 Aug 10, 2017 03:34AM

Sorry I am having a lot of trouble following this discussion. If there is a security issues that is being discussed, that shoul be separately filed as a security bug (and maybe get your bug bounty reward!). If there is just some behavior bug being reported... well, I am having a hard time understanding the report. :)

ji...@gmail.com <ji...@gmail.com> #185 Aug 10, 2017 03:51AM

ok

ji...@gmail.com <ji...@gmail.com> #186 Aug 10, 2017 03:53AM

<ha...@google.com> #184
You are the google staff is it!

ji...@gmail.com <ji...@gmail.com> #187 Aug 10, 2017 04:03AM

Sorry! I do not know how to delete! I just looking for deleted buttons can not find ,,,, Can you tell me how to operate. I was here for the first time

ji...@gmail.com <ji...@gmail.com> #188 Aug 10, 2017 04:08AM

I just said these things is the rogue app dry thing. As long as there is a little bit of loopholes they can drill
Plus I closed the background to run, they still have been running

ji...@gmail.com <ji...@gmail.com> #189 Aug 10, 2017 04:12AM

My security report is very simple, that is, the Foreground Service this notification api provided to the user to stop the option on the line. This api itself has a problem

ha...@google.com <ha...@google.com> #190 Aug 10, 2017 06:29AM

Sorry I am really having trouble following. What is the problem? It would be really helpful if you could provide specific information about:

1. How you are using the API.
2. What you expect to have happen.
3. What is actually happening.

I can't understand what "user to stop the option on the line" means.

ji...@gmail.com <ji...@gmail.com> #191 Aug 10, 2017 07:02PM

1. After notification authority and run in the background permissions can close these use Foreground service API to improve their service level of app, then notify the authority can shut off the Foreground service API
2. Let me explain, I met when I used an app. Notify the authority and run in the background after permission I already disabled, but this app using Foreground service API to this app can still run.
3. I hope so, running background permissions can close off the Foreground service API is used to improve the service

ji...@gmail.com <ji...@gmail.com> #192 Aug 10, 2017 07:03PM

你好，ha...@google.com>

1. After notification authority and run in the background permissions can close these use Foreground service API to improve their service level of app, then notify the authority can shut off the Foreground service API
2. Let me explain, I met when I used an app. Notify the authority and run in the background after permission I already disabled, but this app using Foreground service API to this app can still run.
3. I hope so, running background permissions can close off the Foreground service API is used to improve the service

ji...@gmail.com <ji...@gmail.com> #193 Aug 11, 2017 02:18AM

ha...@google.com>

I'm sorry to bring you some of the problems, the fact is that I didn't know Foreground Service is what specific services, now I know, Foreground Service (typically notification bar has a row out notification) completely from all background restrictions. As you can imagine, the notifications for mobile phones may not be able to look right

Here I hope I can in the system Settings provide a control Foreground Service access to the user

ke...@gmail.com <ke...@gmail.com> #194 Aug 16, 2017 07:36PM

@193

Consider filing a new issue report.
However you might probably expect a "working as intented" refuse, according to recent changes.

Another clue:
https://issuetracker.google.com/issues/64196561

"This notification is the means we have to inform the user about apps that might misuse foreground services, and so it cannot be blocked."

The Android team seems to make sure the user get informed only, rather than give them the power to mitigate such abuse(they should at least have it as an experimental OP in appops).

ji...@gmail.com <ji...@gmail.com> #195 Aug 18, 2017 07:49PM

@194

I understand that this system notification is telling the user what to do with the foreground service, which is good.
And I am hope can join to stop the service on the basis of this option, because some app is very like to play rascal, so I'm not saying don't let the app keep alive, is like the system to the user more permissions allow us to better use

ji...@gmail.com <ji...@gmail.com> #196 Aug 18, 2017 07:55PM

@194

I know this notice is telling the user that the app is using the foreground service, which I understand
So I can like is for the user a more option to disable this front desk service outage or the background, can give the user to control whether an application can run in the background service, or broadcast the permissions option is a great design, I like Google can provide android for android users with one of these options.
Currently 8.0 dp4 is not able to control this foreground service, so I would like to add the foreground service to the control option

pe...@gmail.com <pe...@gmail.com> #197 Aug 18, 2017 11:46PM

I was thinking of the same question, there is not a way for user to enable or disable the app's foreground service request. So i even make this issue:

Is there a way for user to allow or deny the app's ForegroundService even if it design for Android O or not?:
https://issuetracker.google.com/issues/64621473

And i have another question, consider this scenes:
A Music app, that need a foreground service to play music in background, another foreground service to run push service.
But as a user, I have to enable the music foreground service, but i don't want to enable it run push foreground service.

So, I think will need the options to enable or disable app foreground service, and will also need the options to enable or disable different foreground service in the same app .

And it is very important for us in china, we can't expect the app to follow the rules， we only expect the system to defense them。

ji...@gmail.com <ji...@gmail.com> #198 Aug 19, 2017 03:48AM

@197

It occurred to me. You can choose control by serving as a unit

ha...@google.com <ha...@google.com> #199 Aug 19, 2017 03:52AM

There is no way to break the app and disable its foreground service. We may investigate further controls in the future. (For now you can either force stop the app, or uninstall it / complain to the developer.)

No app needs a foreground service for a push service. If they are doing that, they are wrong. (If they are on a GMS device, they absolutely should be using Firebase Cloud Messaging. If they are on a non-GMS device, they can ask the user to put them on the battery whitelist which will allow them to have a long-running background service with no network restrictions.)

ha...@google.com <ha...@google.com> #200 Aug 19, 2017 03:54AM

Btw, China as it stands is deeply problematic, the lack of a standard cloud messaging service puts system health in terrible shape, since it is just not scalable or viable to have every app wanting to get push notifications running its own service. There just isn't anything the platform's management of services is going to do about this that will make it a good situation.

ji...@gmail.com <ji...@gmail.com> #201 Aug 19, 2017 04:03AM

@ha...@google.com

They've done this disgusting behavior, and it's going to get worse
I hope that Google will give users a control over the foreground service on the system

I said the situation is now, and now we have an app that does that

ji...@gmail.com <ji...@gmail.com> #202 Aug 19, 2017 04:10AM

ha...@google.com

Thank you for your understanding! Hopefully this android will give us users the power to manage those apps
Google has always given developers so many permissions, it's time to give users permission

ji...@gmail.com <ji...@gmail.com> #203 Aug 19, 2017 04:11AM

@ha...@google.com

Our users are willing to lose the backstage notification and other functions. We only hope that Google will give users a front service control option
You said they were wrong, but you Google just let them do it. And don't give the user some permissions to control them, this is safe,,,,,,,, where security,,,,,,,, this is not to let the app rape our users and we haven't to a little rebel

ji...@gmail.com <ji...@gmail.com> #204 Aug 19, 2017 04:16AM

You gave them so many privileges, why they can't, this is your carelessness, brick of vulnerability is don't gave them permission, say not to do so they will listen to you of, really naive, no wonder system so unsafe, but also can make cancer apk has been chaos to bind their own apk in the background. And they can casually access user information and so on in the background. Is that safe?

ji...@gmail.com <ji...@gmail.com> #205 Aug 19, 2017 04:17AM

You say can't use, then why not remove this authority, open a mouth every day to let them come to brick

ji...@gmail.com <ji...@gmail.com> #206 Aug 19, 2017 04:20AM

How can you not force the front service to demote, or provide an option that doesn't allow the foreground service to run in the background

ji...@gmail.com <ji...@gmail.com> #207 Aug 19, 2017 04:35AM

Investigate what? This time, it is not the issue of the issue that you can do better, directly to a mandatory background stop service operation option, even the bindservice is also limited together, at least to the user at the bottom
Our users have been these rogue app raped for many years, the user permission to us, don't tell me how how, this will give the user a guaranteed at least, your system is doesn't even have a guaranteed experience to users

ji...@gmail.com <ji...@gmail.com> #208 Aug 19, 2017 04:39AM

Say it! If you can't control the foreground and bindservice. Results also is not the same as before, the app running, also won't end applications because of the service or the front desk service oh, a appbind out a large app to continue running in the background, how much ram, how strong the soc is useless, because they eat enough

ji...@gmail.com <ji...@gmail.com> #209 Aug 19, 2017 04:40AM

This is what you call android8 security. I really want to laugh

ji...@gmail.com <ji...@gmail.com> #210 Aug 19, 2017 04:40AM

Even a cancer apk can't handle it and says it's safe

ji...@gmail.com <ji...@gmail.com> #211 Aug 19, 2017 04:49AM

@ha...@google.com

This app USES the front desk service to keep running, how can you not control the app
Don't say uninstall, android can control the front desk service of this app and say it's safe, this app is just one of them

deleted
0 B

Restricted

ha...@google.com <ha...@google.com> #212 Aug 19, 2017 05:29AM

This is no longer really relevant to this bug. Background restrictions is working as expected, and one of those expectations is to not impact foreground services and allow them to run (for the most part) as they did pre-O. There is certainly some discussion to have about management of foreground services (and as I said it may be something to consider in a future release), but that is not a discussion relevant to this bug (or O in general).

ji...@gmail.com <ji...@gmail.com> #213 Aug 19, 2017 05:57AM

Hope to join the front desk service control options as soon as possible! You give the developer's authority is already high so that users can not be used normally

ji...@gmail.com <ji...@gmail.com> #214 Aug 19, 2017 06:00AM

Hope to add this control in version 8.1! Do you think that your control is good? You have been leaving the gap for the developer to drill

ji...@gmail.com <ji...@gmail.com> #215 Aug 19, 2017 06:03AM

This is terrible than the bug, as you expected to give the front desk service and bind service is not controlled! Good rape users

ha...@google.com <ha...@google.com> #216 Aug 19, 2017 07:06AM

Let's not start talking about rape. And this is completely off-topic of this bug, which is about background execution limits, which had a very specific goal for the kind of control it provides, which is not this. I don't think there is anything really more to discuss here, unless there are any additional issues specifically about background restrictions.

pe...@gmail.com <pe...@gmail.com> #217 Aug 19, 2017 08:31AM

This issue is fixed, and what we are discussing is the user control of foreground service.So I report this issue:

Is there a way for user to allow or deny the app's ForegroundService even if it design for Android O or not?
https://issuetracker.google.com/issues/64621473

If you think the Android system need the feature, you can star this issue and keep an look at it.

I have use android for almost 8 years, and as an developer for almost 5 years. GCM or FCM is not usefull in china, so at the past time, every app will launch a seperate process for push， and service is abused，you may can not imagine how manay process and services runs in the background and it also launch other app relate to the front。

We endure this situation for so long，and most of iOS user laugh Android for lagging，

In the above, I commit as a user, in fact i am also an Android developer，@ji...@gmail.com @ha...@google.com, but i am also hope the system will add this feature to option the foreground.Do not expect developer to allow the rule（most of them may be forced by the push need）,let the user decide（Just like the dynamic permission）.I also have an ipad, if app want run in background, when you move the app to background ,the will be a alert for user to alow or deny it run in background.

We are here because we love Android and hope it become more nice to the user, and Android O is a good start, i hope this feature will be considered.

ji...@gmail.com <ji...@gmail.com> #218 Aug 19, 2017 01:38PM

@217

兄弟说得好！我个人还不如开发者！也是非常关心Android 和谷歌！没想到……哎！
小兄弟你qq多少呀！加个好友吧

av...@gmail.com <av...@gmail.com> #219 Aug 22, 2017 10:23PM

support you , but, actually，you can't stop a app (like wechat) wake up the other in background

fa...@gmail.com <fa...@gmail.com> #220 Oct 8, 2017 01:28PM

good joba!

hx...@gmail.com <hx...@gmail.com> #221 Oct 10, 2017 08:06PM

This issue was fixed. So please don't post stupid "support" message.

All of people who subscribed this issue will received E-mail. It is pretty
annoying.

Thanks.

————
Translation for those Chinese guy:

这个问题做出很久以前就修复了，所以请不要再发愚蠢的支持消息。

所有订阅这个 issue 的都会因此抄送到电子邮件。这相当恼人。

谢谢！

--Tom

2017年8月22日 下午8:23， <buganizer-system@google.com>写道：

- Show quoted text -

ke...@diyism.com <ke...@diyism.com> #222 Nov 2, 2017 08:05PM

This issue is still there when to use "Square button" to kill while not to use "Back button" to close,
on my nexus 6p with latest android version 8.0.0 and build number opr5.170623.007.

Reproduction step:
1. Go to "Apps & notifications/App info/DingTalk/Battery/Background activity", switch off
2. Go to "System/Developer options/Don't keep actitivies", switch on
3. Open DingTalk
4. Use "Square button" and "X button on right-top corner" to kill DingTalk (not use "Back button" to close DingTalk)
5. Wait 10 minutes, the DingTalk 2 processes and 4 services is still in "System/Developer options/Running services"

ke...@diyism.com <ke...@diyism.com> #223 Nov 14, 2017 02:08PM

And the "Back button" bug is also still there, google engineers sucks:
on nexus 6p, android version 8.0.0, build number OPR5.170623.011.

Reproduction step:
1. Install VidCompact from https://play.google.com/store/apps/details?id=com.xvideostudio.videocompress&hl=en
2. Go to "Apps & notifications/App info/VidCompact/Battery/Background activity", switch off
3. Go to "System/Developer options/Don't keep actitivies", switch on
4. Open VidCompact
5. Use "Back button" to exit VidCompact
6. Waiting for over 65 seconds, the 2 processes and 1 service of VidCompact are still in "System/Developer options/Running services"

fr...@gmail.com <fr...@gmail.com> #224 Nov 14, 2017 03:19PM

Thank you for your response.

2017年11月14日 上午11:08， <buganizer-system@google.com>写道：

- Show quoted text -

ke...@gmail.com <ke...@gmail.com> #225 Nov 14, 2017 11:30PM

@223
This has nothing to do with the limitation introduced in Oreo(actually nougat).

You should turn its RUN_IN_BACKGROUND OP to ignore, or toggle its background activity option off, then test its behavior.
Both are exact the same thing.

Note the background activity option does not always show up, and this is why I tell you the alternative approach using appops to the same setting.

"Don't keep actitivies" in developer option means when you leave an activity, then it is destroyed(similar to the activity itself calls finish()).

ke...@diyism.com <ke...@diyism.com> #226 Dec 12, 2017 06:47PM

Great work! In Android 8.1, the Square Button Killing can kill the app's services altogether now.

ke...@diyism.com <ke...@diyism.com> #227 Mar 21, 2018 09:17PM

Found a new forever process:
1. install a debug apk;
2. adb shell run-as this debug package;
3. uninstall this debug apk;
4. the run-as shell will be running forever until rebooting system.

ke...@diyism.com <ke...@diyism.com> #228 Mar 21, 2018 09:20PM

Found a new forever process:
1. install a debug apk;
2. adb shell run-as this debug package;
3. uninstall this debug apk;
4. the run-as shell will be running forever until rebooting system. Use "adb shell ps -Af" to found the forever run-as shell process.

ha...@google.com <ha...@google.com> #229 Mar 22, 2018 06:03AM

Sorry, that is unrelated to this bug. The shell allows you to do a lot of things that regular apps can't do. Background execution limits are for things apps themselves can do.

ke...@diyism.com <ke...@diyism.com> #230 May 22, 2018 04:42PM

Android 8.1.0, Security Patch May 5,2018, Build number OPM2.171019.029.A1

The DingTalk process running forever in "Settings/System/Developer options/Running services",
even if i switch on it in "Settings/System/Developer options/Apps/Backgroud check"

https://play.google.com/store/apps/details?id=com.alibaba.android.rimet

Only these service left in "Settings/System/Developer options/Running services":
Settings: 1 process and 0 services
DingTalk: 3 processes and 3 services(LightAppService, LWPService, ListenPhoneService, com.alibaba.android.rimet, com.alibaba.android.rimet:channel, com.alibaba.android.rimet:tools)
Android System: 1 process and 1 service
com.qualcomm.qcrilmstgtunnel: 1 process and 1 service
Google Play services: 1 process and 1 service(GoolgeLocationService, com.google.android.gms.persistent)
com.huawei.sarcontrolservice: 1 process and 1 service
Google Pinyin Input: 1 process and 1 service

Even i clicked all the 3 service "STOP" buttons, and the "DingTalk(3 processes and 3 services)" disappred,
but after 3 seconds, "DingTalk(3 processes and 3 services)" appears again.

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ke...@diyism.com <ke...@diyism.com> #231 Jun 5, 2018 01:33PM

Nexus 6P, Android 8.1.0, Security Patch June 5,2018, Build number OPM6.171019.030.B1

The DingTalk process is still running forever in "Settings/System/Developer options/Running services".

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ke...@diyism.com <ke...@diyism.com> #232 Jun 27, 2018 05:19PM

Android 8.1.0, Security Patch May 5,2018, Build number OPM2.171019.029.A1

The DingTalk process running forever in "Settings/System/Developer options/Running services",
even if i switch on it in "Settings/System/Developer options/Apps/Backgroud check"
....
==========
Faint, my fault, in "Settings/System/Developer options/Apps/Backgroud check", "switch on" means "no background check", "switch off" means "background check"

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ke...@gmail.com <ke...@gmail.com> #233 Jun 27, 2018 05:24PM

@232

"Settings/System/Developer options/Apps/Backgroud check" refer exactly to the AppOps option RUN_IN_BACKGROUND, while in Android 9, a new RUN_ANY_IN_BACKGROUND (can be accessed directly in apps' battery settings) seems to provide more restrictions.