

The malicious video file causes users to lose control of the device 'storming' in the Android world

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Are you, or your friends, relatives using Android devices?

If yes, please pay attention! During this time, you should be more careful before accessing or playing any new strange videos that appear on your smartphone, especially videos downloaded from the Internet or received via strange email.

Recently, network security experts from several reputable security groups have discovered an unusual appearance of a strange video file, which looks relatively harmless, but can have terrible consequences. against the victim's system.

1. Your computer can be hacked after opening a document in LibreOffice



The vulnerability allows hackers to execute code remotely on the victim's Android device

Specifically, this video file was designed to specifically target the destruction of your Android smartphone through a dangerous remote code execution vulnerability, which could allow hackers to execute custom code. comments on the victim's system. According to an unofficial statistics, this new but extremely effective attack has affected more than 1 billion devices running the Android operating system worldwide, the most popular of which is devices running on Android versions from 7.0 to 9.0 (Nougat, Oreo or Pie).

This remote code execution vulnerability is currently being tracked under the name CVE-2019-2107, appearing in the Android media framework. CVE-2019-2107, rated at a high risk level because if successfully exploited, this vulnerability could allow the remote attacker to execute arbitrary code on the targeted device that the user does not well know before they can make a response.

1. Agent Smith code is threatening 25 million Android devices

To take full control of the target device, all the attacker needs to do is trick the user into opening a malicious video file sent to the device. This video file is also specially created with the original Android video player application.

Although Google has released a small security patch earlier this month to address the vulnerability, it is clear that millions of Android devices still cannot access the latest security update, which needs to be provided by each vendor of the device, which makes light or unknown users information about this vulnerability continue to risk becoming its victim. Google briefly described this vulnerability in the July security newsletter as follows:

"This critical vulnerability is related to Android's media framework, so it can allow remote attackers to use specially crafted files to execute arbitrary code in the context of a privileged process".

1. Even if denied access, thousands of Android applications can still track you

```
127|s3ve3g:/ # id
uid=0(root) gid=0(root) groups=0(root),1004(input),1007(log),1011(adb),1
015(sdcard_rw),1028(sdcard_r),3001(net_bt_admin),3002(net_bt),3003(inet
),3006(net_bw_stats),3009(readproc) context=u:r:su:s0
s3ve3g:/ # ps | grep media
media      244    1      4820    1036  hrtimer_na b6e0b13c S /system/bin/ads
prpcd
media      261    1      17112   5472  binder_thr b620c258 S /system/bin/med
iadrmsrver
mediaaex   264    1      63848   8404  binder_thr b6be2258 S media.extractor
media      265    1      78448   12316 binder_thr b5fc9258 S /system/bin/med
iaserver
media_rw   970    208    7756    1856  inotify_re b6e662a8 S /system/bin/sdc
ard
media_rw   1157   208    7756    1908  inotify_re b6dd82a8 S /system/bin/sdc
ard
u0_a9     1769   255    854648  44496 sys_epoll_ b644b114 S android.process
.media
mediacodec 27423  1      12704   3976  binder_thr b6cc9258 S media.codec
s3ve3g:/ # f

[Switching to LWP 19948]
hread 29 "le.hevc.decoder" hit Breakpoint 1, ihevcd_parse_pps (
ps_codec=ps_codec@entry=0xb4a69000)
at external/libhevc/decoder/ihevcd_parse_headers.c:1705
705     external/libhevc/decoder/ihevcd_parse_headers.c: No such file or
directory.
(gdb) l
1700     in external/libhevc/decoder/ihevcd_parse_headers.c
(gdb) l
1700     in external/libhevc/decoder/ihevcd_parse_headers.c
(gdb) p
The history is empty.
(gdb) p ps_pps
$1 = <optimized out>
(gdb) p *ps_pps
value has been optimized out
(gdb) x/10x ps_pps
value has been optimized out
(gdb) stepi
1695     in external/libhevc/decoder/ihevcd_parse_headers.c
(gdb)
```

This serious vulnerability is related to Android's media framework

In a related move, the famous Android application developer Marcin Kozlowski recently published proof-of-concept (PoC) on a typical strike based on CVE-2019-2107 on Github , raising concerns about if Android device

manufacturers will not soon send security patches to users, the number of victims of this vulnerability will increase significantly in the near future.

In Marcin Kozlowski's PoC, the malicious file used is a HEVC encoded video. Not only does it ruin the media player, it can also help potential attackers develop new exploits to achieve the ultimate goal of completely controlling the victim's device.

However, it should be noted that if these malicious videos are sent to and received via several instant messaging applications such as WhatsApp, Facebook Messenger or uploaded to a video streaming service such as YouTube or Twitter . hackers will not be able to launch the attack. This is because the above services often compress videos and re-encode the entire media file, thereby causing the malicious code embedded in the video to be "deformed" completely, unable to work.

1. Many Android users discover that their phones have spyware installed after traveling to China



Avoid downloading and playing random video files from unreliable sources

In short, until you get additional security patches from the publisher, the best way to avoid becoming a victim and protecting yourself from this attack is to avoid downloading and playing random video files. of course from unreliable sources, along with complying with all basic privacy and privacy guidelines.

Finally, don't forget to update your mobile operating system as soon as the latest patch arrives!

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