Malware wars: the attack of the droppers

threatfabric.com/blogs/the-attack-of-the-droppers.html

Blog

28 October 2022



Another 130.000+ installations of malicious droppers from official store

A year ago, we <u>highlighted a trend</u> of malicious droppers in Google Play store used to distribute banking Trojans. We also predicted further efforts of cybercriminals to reduce the malicious footprint of their malware in order to stay undetected. Distribution through droppers on official stores remains one of the most efficient ways for threat actors to reach a wide and unsuspecting audience. Although other distribution methods are also used depending on cybercriminals targets, resources, and motivation, droppers remain one of the best option on price-efforts-quality ratio, competing with SMiShing.

Distribution methods

Ways to reach victims



The history of competition between malware authors and security mechanisms knows several twists when new measures are introduced. Droppers on Google Play went from using AccessibilityService to auto-allow installation from unknown sources to using legitimate sources to control them and store malicious payloads. Following the updates to the "Developer Program Policy" and system updates, actors immediately introduce new ways to sneak to the official store, overcoming limitations or adjusting droppers to follow the guidelines and not arouse suspicion. A brief story of that battle is presented on the graph below.

Evolution of droppers



Non-stopping competition with security mechanisms

In this blog we uncover additional tactics cybercriminals use in new Google Play droppers discovered by ThreatFabric analysts. These droppers have cumulative number of **130k+** installations distributing Sharkbot and Vultur banking Trojans.

Sharkbot: the less you see, the more they get

In the beginning of October 2022 ThreatFabric analysts spotted a new campaign of banking Trojan Sharkbot, targeting Italian banking users. This campaign involved Sharkbot **version 2.29 – 2.32**. Following the research path, our analysts were able to identify the dropper app located on Google Play with 10k+ installations and disguised as an app to calculate tax code in Italy ("Codice Fiscale") targeting Italian users.

Sharkbot dropper

Targeting Italy, 10k+ installations

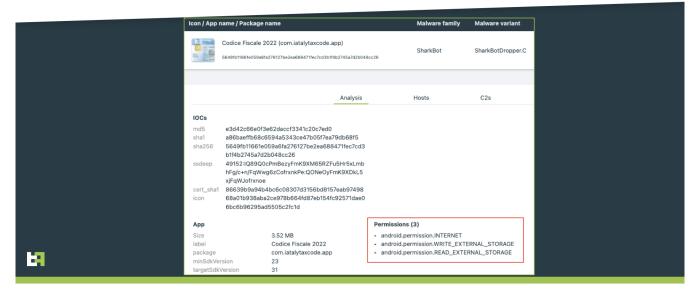
	Google Play Games Apps Movies Books Kids		Google Play Games Apps	Movies Books Kids Q @	
	WizDrostek 10K- I Dominisads PfCi 3 O	A CAREAR AND A CAR	About this app government. The use of a tax code for illegal purposes is responsibility for any misuse of the code obt	prohibited and severely punished by law. We disclaim any ained through the application.	
			Version 1.7 V Regulares Android 6.0 and up Content rating PEOI 3 Learn more D Offered By 0 Google Commerce Ltd	Updated on Sep 24, 2022 Downloads 10,000+ downloads Permissions View details	
	About this app → The septiential subsequence and respectively a set of the data entered. The data entered t		Compatibility for your active devices t You need to login to view the compatible of * How this app works on your device This section shows you whether this app wo	levices	
ы	Vere menne Main features — Updated on Sep 26, 2022		to your Google Account and that have been a Developer contact P Flag as inappropriate	ctive in the last 30 days.	

This is not the first time that a Sharkbot dropper sneaks into the official Google store, but this time authors did their best to hide the malicious intents of the dropper. Previous versions of Sharkbot droppers as well as other droppers (including those we highlight below in this blog) include ability to download, install and launch the malicious payload. Obviously, such behaviour is quite suspicious and already made Google to introduce changes to the <u>Developer Program Policy</u> where usage of **REQUEST_INSTALL_PACKAGES** permission was limited to apps that have it as core functionality.

However, in this new iteration, Sharkbot dropper authors tried their best to not include suspicious permissions at all, thus maintaining an extremely low profile. The new dropper has only 3 permissions that are quite common.

Sharkbot dropper

No suspicious permissions



To ensure that the dropper is launched on a real targeted device, the app obtains the SIM coutry and compares it to "it" (Italy): if not matched, no malicious activity will be performed. Besides, additional checks are made on the C2 side to ensure that the dropper is running on the targeted device: if C2 is reached from a non-Italian IP address, the C2 will respond with a default "exit" message. Otherwise, it will receive a configuration data with the URL containing the payload.

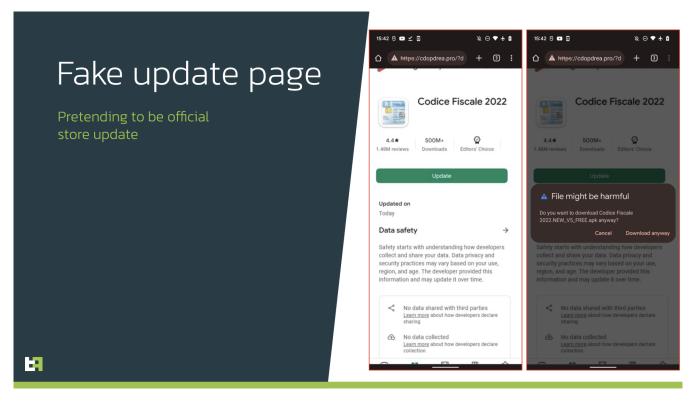
C2 communication

Filtering unwanted devices

Request			Response	
Protein Raw Hex 1 POST / HTTP/1.1 2 Content-Type: application/x-www-form-urlencoded 3 User-Agent: Dolvik/2.1.0 (Linux; U; Android 5.0.1; GT-19505 Build/JSS15J) 4 Most: colopea.store 6 Accept-Encoding: gzip, deflate 7 Content-Length: 118 9 stats 9 stats 9 stats 9 stats 9 stats	➡ \n 05eb531:	≡	Pretty Raw Hex Render 1 HTTP/1.1 200 0K Server: nginx/1.20.1 Server: nginx/1.20.1 3 Date: Tue, 11 0ct 2022 12:17:14 GMT Gatact: Tue, 11 0ct 2022 12:17:14 GMT 4 Content-Type text/html; charset=UTF-8 Server: Nginx/1.20.1 5 X-Powered-By: PMP/8.8.20 7 7 Content-Length: 36 36 9 78aeae914ded57aaa5cac13988f@a4ce9ee7	Unwanted IP response: { "package":"exit" }
Pretty Raw Hex 1 POST / HTTP/1.1 2 Content-Type: application/x-www-form-urlencoded 3 User-Agent: Dalvik/2.1.0 (Linux; U; Android 5.0.1; GT-I9505 Build/JSS15J) 4 4 Most: cdopea.store 5 6 Accept-Encoding: gjp, deflate 7 7 Content-Length: 118 9 9 stats= 66eab4c818b752a1b28a8e2a83c3b5d387a8bcb1165d7f3b2110d320a2cf1622b2a5sc9ef0cc110f96a960f68a3ad21aa8eb5b33	🗊 'n		Pretty Raw Hex Render 1 HTTP/1.1 200 0K 25rver: npinx/1.20.1 3 Date: Wed, 12 Oct 2022 13:41:59 GMT 4 Content-Type: text/html; charset=UTF-8 5 Connection: close 6 X-Powred-99; PHP/8.0.20 6 X-Powred-99; PHP/8.0.20 7 Content-Length: 224 9 78aeae914ded57aaa5cac1398be1a1df9eb6afec4e 9 78aeae914ded57aaa5cac1398be1a1df9eb6afec4e fb1dda974ded439113474eef122c27cb7b6bb4154ff	

Here the interesting part starts: in order to avoid using REQUEST_INSTALL_PACKAGES permission, the dropper opens a fake Google Play store page impersonating Codice Fiscale app page. It contains fake information about the number of installations and reviews, and urges the victim to perform an update. Shortly after the page is opened, the automatic

download starts. Thus, the dropper outsources the download and installation procedure to the browser, avoiding suspicious permissions.

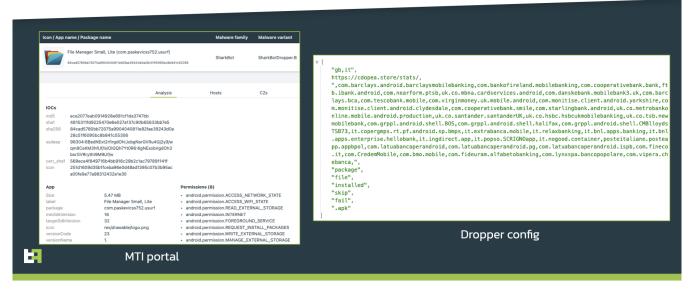


Obviously, such approach requires more actions from the victim, as the browser will show several messages about the downloaded file. However, since victims are sure about the origin of the application, they will highly likely install and run the downloaded Sharkbot payload.

During our investigation, we also found another Sharkbot dropper available on Google Play. It had zero installations at the time of discovery and was quickly removed from the website. The interesting detail about this dropper was that it had the REQUEST_INSTALL_PACKAGES permission in place and operated more in line with usual dropper's behaviour. Actors were also following the updated policy of Google, as this dropper was masqueraded as file manager, a category that is allowed to have this permission due to it being a core functionality.

Another dropper

Following the policy: File Manager as a disguise



Similarities in code, C2 communication, and encryption used lead us to the same author behind the older versions of Sharkbot dropper, trying to reduce footprints and stay undetected.

Targets

The new "Codice Fiscale" dropper discovered by ThreatFabric is configured to distribute Sharkbot payload to Italian users only, while the other "File Manager" dropper has Italy and UK in its configuration. At the same time, the payload delivered still has banks from Italy, UK, Germany, Spain, Poland, Austria, US, and Australia in its target list. Please, find the full target list in <u>Appendix</u>.

Vultur: Brunhilda is back

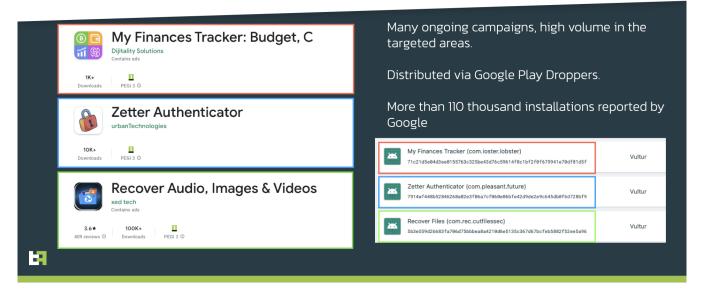
Another malware family that has been very active in the last year has been Vultur. <u>First discovered by ThreatFabric in July</u> <u>2021</u>, Vultur is an Android banking trojan which specializes in stealing PII from infected devices using its screen-streaming capabilities. It is also able to create a remote session on the device using VNC technology to perform actions on the victim's device, effectively leading to On-Device Fraud (ODF).

Upon discovery, ThreatFabric first reported the strong connection between this malware family, and the **"Brunhilda Project"** crew. This Threat Actor was known for its central role in the distribution sector of the Android Banking malware landscape thanks to its dropper applications, which managed often to pass Google security checks and be approved on the Google Play Store. Initially, the Brunhilda droppers were deploying a variety of Android malware applications, like for example samples of the malware family Alien. However, after the first discovery of Vultur, every dropper found on the Google Play Store only installed samples belonging to the Vultur malware family.

Recently, ThreatFabric discovered 3 new Droppers on the Google Play store, ranging from 1.000 to 100.000 installations reported by Google. As previous campaigns observed throughout 2022, these droppers pose as applications like security authenticators, or file recovery tools.

Vultur Campaigns

Strong connections with Brunhild Project Droppers



The Dropper

The dropper applications are consistent with the droppers that we reported in our first blog about Vultur, and the modus operandi has not changed much with respect to older variants. As usual, the dropper is made of a trojanized application, which provides the advertised functionality, as well as the hidden dropper functionality. As previously reported, the dropper initially sends a registration message to its C2 server. As a response, the server sends back an appToken, which is then used in the following requests to identify the device. At this point, the dropper prompts the victim with a screen asking to download an **update** for the current application. If the user accepts the displayed request, the dropper proceeds to install Vultur.

Payload Installation

Tricking the victim into installing a fake update

Victim is triggered with a request to install the update, allowing for installation from unknown sources	Recoverfiles needs an update Installed Version: 1.1 By installing the update, you agree to the <u>General Conditions</u> for the distribution of content UPDATE	Recovery Files MAGES AUDIOS VIDEOS RATE Brises	
ы	Google Play		

In terms of execution of the installation, there are no real updates from previous versions of Brunhilda. However, the dropper currently implements a few obfuscation techniques which were not present in initial versions of the dropper. Firstly, in these new version, the installation logic is not contained in the main DEX file, but in a additional dex file which is loaded dynamically. This additional step can complicate the life of researchers, making it harder to identify the code responsible for malicious activity.

The latest version of Brunhilda also implemented a new layer of obfuscation, which encrypts strings by using AES with a varying key, which is included in the byte array that is given as input to the decryption method, as explained in the picture below:

String Obfuscation



	<pre>public static String decryptString(byte[] encryptedBytes) { byte[] ar_b] = cryptoUtlis.getArraySubSet(encryptedBytes, 0, encryp SecretKeySpec SecretKeySpec0 = new SecretKeySpec(cryptoUtlis.getArraySubSet(encryptoUtlis.getArraySet(encryptoUtlis.getArraySet(encryten</pre>		
	EC721876DF18102015E61881652B666C	666F 4E4E 5654 3568 5335 5252 6738 62	262
	Encrypted data	AES Key	
ы			

Once the payload is installed, the Brunhilda dropper launches the malware, and then continues existing on the device, acting as the application it is posing as.

Vultur

These Brunhilda droppers all deploy samples belonging to a **novel variant** of Vultur Android Banking malware family.

This new variant maintains the Modus Operandi that characterized the original samples from 2021: once installed, the malware initiates a connection with its C2, and after registering it obtains its configuration containing its targets. Vultur features two separate target lists: one for screen-streaming targets and one for keylogging targets. Similarly to its older variant, the keylogging targets are social and messaging applications, while the screen-streaming targets are applications for online banking and cryptocurrency exchange. However, in this new variant, this second set of targets is also the list of applications for which extensive accessibility logging is performed.

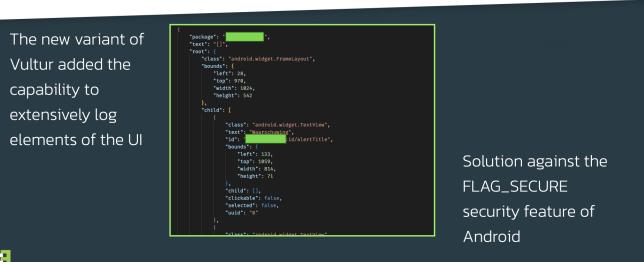
Vultur Android Banking Trojan

ODF Fraud

Entry	Monetisation	ATO Fraud	On-device fraud	Resilience
Gp Dropper – Brunhilda	Push/SMS interception	Screen Streaming	HRAT	Prevent uninstall
	Contact harvesting	Keylogger		AV evasion
ы		Accessibility Logging (NEW)		

By accessibility logging we mean the extensive logging of all UI elements and all the events associated with them (like for example clicks, gestures, etc). This is not a novel technique, but it is the first time we see it implemented in Vultur. This might be a solution to the issue created by a security flag often used in these banking applications: Android offers a way to tag the content of the window as secure, by using the "**FLAG_SECURE**", which prevents it "from appearing in screenshots or from being viewed on non-secure displays". ThreatFabric tested this and is able to confirm that windows with this flag enabled only show a **black screen** during screen-streaming. However, if the **keyboard** is opened during interaction with the secured app, it **will be visible** on the recording as well as all the keys pressed by victim leading to potential theft of input data. In this case, it is possible to obtain enough information to steal credentials even with a black screen, when all the UI events are logged and sent to the C2.

Addition of Accessibility Logging



In addition to screen streaming

In our previous blog we documented through our research why we believe that Vultur, the malware downladed by these droppers, is a malware family that is not only distributed, but also created by the criminals behind the Brunhilda Project. In addition to the reasons discussed in our previous blog, which focus on the networking protocol used, new variants of Vultur also adopted the very same string obfuscation algorithm discussed in the previous section about the Brunhilda Dropper, further confirming our beliefs about the connection between these two malware families.

Targets

These new Brunhilda-Vultur campaigns have been very active and successful in the last few months, reaching more than 100.000 potential fraud victims. Based on our research and investigation, in addition to cryptowallets which have always been in the target list, the largest campaign we observed focused on UK and Netherlands, while the two smaller and more recent ones switched to Germany, France, and Italy. Full target list of Vultur is provided in <u>Appendix</u>.

Conclusion

Another trend predicted by ThreatFabric's experts comes true and looks like it is here to stay. Malicious dropper applications still find their way to sneak in the official store despite the changes made to the policy and security mechanisms. Distibution through droppers on Google Play still remains the most "affordable" and scalable way of reaching victims for most of the actors of different level. While sophisticated tactics like <u>telephone-oriented attack delivery</u> require more resources and are hard to scale, droppers on official and third-party stores allow threat actors to reach wide unsuspecting audience with reasonable efforts. Such way of distribution of Android banking Trojans is very dangerous as victims may stay unsuspecting for a long time and may not alert their bank about suspicious transactions made without them knowlege. Thus it is very important to take actions on the organisation side to detect such malicous apps and their payloads as well as suspicious behaviour happenning on customer's device.

We at ThreatFabric always report malicous droppers we indentified to remove it from official stores and limit its further distribution. Financial organisations are welcome to contact us: if you suspect some app be involved in malicious activity, feel free to reach our Mobile Threat Intelligence team which will provide additional details and help with reporting the malicous app if identified: <u>mti@threatfabric.com</u>.

Fraud Risk Suite

ThreatFabric's Fraud Risk Suite enables safe & frictionless online customer journeys by integrating industry-leading mobile threat intel, behavioural analytics, advanced device fingerprinting and over 10.000 adaptive fraud indicators. This will give you and your customers peace of mind in an age of ever-changing fraud.

Appendix

Sharkbot Droppers

App name	Package name	SHA-256
Codice Fiscale 2022	com.iatalytaxcode.app	5649fb11661e059a6fa276127be2ea688471fec7cd3b1f4b2745a7d2b048cc26
File Manager Small, Lite	com.paskevicss752.usurf	84cad5780bb72075a9904040811e82fae39243d0a28c51f6095bc8b841c55356

Sharkbot Samples

App name	Package name	SHA-256
_Codice Fiscale	com.hzpwksdljgeibc.gmzjwdule	0cbd727b7fa8d9938746475e91fb22a46b75cdcca2778db78073e3c3da70ad31

App name	Package name	SHA-256
_Codice Fiscale	com.gxulzkj.atuqczml	008338b39c0abf3aa75e92e845c34ac60e049a480eb1e0ab8d3147085a7bb745

Brunhilda Droppers

App name	Package name	SHA-256
My Finances Tracker	com.all.finance.plus	0626e98f9988c63684e575d7a0df839240f7963aed38f82010e63b1b85a9ef61
RecoverFiles	com.umac.recoverallfilepro	e94a6f7dcdddd4b8c18110993f118f86d3cbfe1faf330f9968aaa7095dd189a4
Zetter Authenticator	com.zetter.fastchecking	54139e2e008ed2ebcb4fc71d8aa2470727a724c8607464d9c3688e9506952529

Vultur Samples

App name	Package name	SHA-256
RecoverFiles	com.accessible.recoverypro	cae3a48013fcea931f6b84e196f625e27017a1cdc97c1d86c8077db431abd508
Zetter Authenticator	com.zforce.setupex	8584d43067535dc97d12c4565e1636e3a1963421fe811ff6e58b4dbd7e5b947d

Sharkbot Targets

App name
NAB Mobile Banking
George Österreich
Bank of Scotland Mobile Banking: secure on the go
N26 — The Mobile Bank
Luno: Buy Bitcoin, Ethereum and Cryptocurrency
Fineco
PayPal Mobile Cash: Send and Request Money Fast
CaixaBank
TARGOBANK Mobile Banking
Halifax: the banking app that gives you extra
IKO
St.George Mobile Banking
BNL
CheBanca!
Santander Mobile Banking
Wells Fargo Mobile
Sparkasse

Package name	App name
piuk.blockchain.android	Blockchain Wallet. Bitcoin, Bitcoin Cash, Ethereum
com.commbank.netbank	CommBank
es.unicajabanco.app	Unicaja Banco
uk.co.mbna.cardservices.android	MBNA - Card Services App
de.postbank.finanzassistent	Postbank Finanzassistent
com.barclays.android.barclaysmobilebanking	Barclays
com.konylabs.capitalone	Capital One® Mobile
com.advanzia.mobile	Advanzia
uk.co.tsb.newmobilebank	TSB Mobile Banking
com.latuabancaperandroid	Intesa Sanpaolo Mobile
com.citi.citimobile	Citi Mobile®
com.virginmoney.uk.mobile.android	Virgin Money Mobile Banking
com.grppl.android.shell.CMBlloydsTSB73	Lloyds Bank Mobile Banking: by your side
posteitaliane.posteapp.appbpol	BancoPosta
com.lynxspa.bancopopolare	YouApp
de.commerzbanking.mobil	Commerzbank Banking - The app at your side
uk.co.hsbc.hsbcukmobilebanking	HSBC UK Mobile Banking
com.CredemMobile	Credem
com.starlingbank.android	Starling Bank - Better Mobile Banking
com.binance.dev	Binance - Buy & Sell Bitcoin Securely
com.cooperativebank.bank	The Co-operative Bank
com.transferwise.android	TransferWise Money Transfer
com.usbank.mobilebanking	U.S. Bank - Inspired by customers

Vultur Targets

Package name	Application name
asia.coins.mobile	Coins.ph Wallet
be.aion.android.app	Aion Bank
btc.org.freewallet.app	Bitcoin Wallet. Buy & Exchange BTC coin - Freewallet
bvm.bvmapp	Knab Bankieren
cash.klever.blockchain.wallet	Klever Wallet: Buy Bitcoin, Ethereum, Tron, Crypto
cedacri.mobile.bank.crbolzano	isi-mobile Cassa di Risparmio
cedacri.mobile.bank.esperia	Mediobanca Private Banking
co.bitx.android.wallet	Luno: Buy Bitcoin, Ethereum and Cryptocurrency

Package name	Application name
co.clabs.valora	Valora - Crypto Wallet
co.edgesecure.app	Edge - Bitcoin, Ethereum, Monero, Ripple Wallet
co.mona.android	Crypto.com - Buy Bitcoin Now
co.uk.Nationwide.Mobile	Nationwide Banking App
com.CredemMobile	Credem
com.IngDirectAndroid	ING France
com.VBSmartPhoneApp	BankUp Mobile
com.abnamro.nl.mobile.payments	ABN AMRO Mobiel Bankieren
com.americanexpress.android.acctsvcs.it	Amex Italia
com.americanexpress.android.acctsvcs.uk	Amex United Kingdom
com.arkea.android.application.cmb	Crédit Mutuel de Bretagne
com.bankid.bus	BankID säkerhetsapp
com.banknorwegian	Bank Norwegian
com.barclays.android.barclaysmobilebanking	Barclays
com.barclays.bca	Barclaycard
com.bbva.italy	BBVA Italia Banca Online
com.binance.dev	Binance - Buy & Sell Bitcoin Securely
com.bitcoin.mwallet	Bitcoin Wallet
com.bitfinex.mobileapp	Bitfinex
com.bitpanda.bitpanda	Bitpanda - Buy Bitcoin in minutes
com.bittrex.trade	Bittrex Global
com.bituniverse.portfolio	BitUniverse:Crypto Trading Bot
com.boursorama.android.clients	Boursorama Banque
com.breadwallet	BRD Bitcoin Wallet. Buy BTC Bitcoin Cash, Ethereum
com.bunq.android	bunq - bank of The Free
com.bybit.app	Bybit: Crypto Trading Exchange
com.caisseepargne.android.mobilebanking	Banque
com.cic_prod.bad	CIC
com.cm_prod.bad	Crédit Mutuel
com.coinbase.android	Coinbase – Buy & Sell Bitcoin. Crypto Wallet
com.coinbase.pro	Coinbase Pro – Bitcoin & Crypto Trading
com.coinbase.wallite	Coinbase Wallet Lite
com.coinomi.wallet	Coinomi Wallet :: Bitcoin Ethereum Altcoins Tokens
com.coinspot.app	CoinSpot - Buy & Sell Bitcoin

com.comeco.teoTEO - Das neue Multibankingcom.cooperativebank.bankThe Co-operative Bankcom.crypteriumCrypterium Bitcoin Walletcom.crypto.multiwalletGuarda Crypto Bitcoin Walletcom.crypto.multiwalletGuarda Crypto attor cryptocurrency walletcom.db.pbc.miabancaLa Mia Bancacom.db.pwc.dbmobileDeutsche Bank Mobilecom.defi.walletCrypto.com I DeFi Walletcom.digifinex.appDigiFinex - Buy & Sell Bitcoin, Crypto Tradingcom.engin.mobile.walletEnjin: Bitcoin, Ethereum, Blockchain Crypto Walletcom.etoro.openbookeToro - Smart Crypto Trading Made Easycom.fideuram.alfabetobankingAlfabeto Bankingcom.fineco.itFinecocom.fineco.itFinecocom.genpini.android.appGemini: Buy Bitcoin Instantilycom.genpini.android.shell.CMBloydsTSB73Lloyds Bank Mobile Banking: secure on the gocom.grypt.android.shell.CMBloydsTSB73Lloyds Bank Mobile Banking: secure on the gocom.ingrupt.android.shell.chiltocHitBTC – Bitcoin Trading and Crypto Exchangecom.in.it.eupitalone.ukCapital One UKcom.in.gruptiled.nitbtcHitBTC – Bitcoin Tading and Crypto Exchangecom.in.gruptilenter.lineted.hitbtcHitBTC – Buy Bitcoin & Crypto Tradingcom.in.gruptiled.nitbtcHitBTC – Bitcoin Tading and Crypto Exchangecom.in.gruptilenter.lineted.hitbtcHitBTC – Bitcoin Tading and Crypto Exchangecom.in.gruptiled.nitbtcHitBTC – Bitcoin & Crypto Tradingcom.in.gruptileING Bankierencom.kraken.invest.appKraken -	Package name	Application name
com.crypteriumCrypterium Bitcoin Walletcom.crypto.multiwalletGuarda Crypto Bitcoin Walletcom.cryptonator.androidCryptonator cryptocurrency walletcom.db.pbc.miabancaLa Mia Bancacom.db.pwc.dbmobileDeutsche Bank Mobilecom.defi.walletCrypto.com I DeFi Walletcom.digifinex.appDigiFinex - Buy & Sell Bitcoin, Crypto Tradingcom.enjin.mobile.walletEnjin: Bitcoin, Ethereum, Blockchain Crypto Walletcom.etoro.openbookeToro - Smart Crypto Trading Made Easycom.etoro.openbookeToro Noneycom.fideuram.alfabetobankingAlfabeto Bankingcom.fineco.itFinecocom.genini.android.appGemini: Buy Bitcoin Instantlycom.genini.android.shell.BOSBank of Scotland Mobile Banking: secure on the gocom.grypt.android.shell.CMBIloydsTSB73Lloyds Bank Mobile Banking: by your sidecom.hanseaticbank.bankingHalifax: the banking and Crypto Exchangecom.ing.mobileING Bankierencom.ing.mobileKontist Tax Servicecom.ing.mobileKraken - Buy Bitcoin & Crypto Tradingcom.kraken.invest.appKraken - Buy Bitcoin Trading and Crypto Exchangecom.kraken.invest.appKraken - Buy Cryptocom.hanseaticbank.bankingHalifax: the banking app that gives you extracom.hanseaticbank.bankingHalseatic Bank Mobilecom.hanseaticbank.bankingKraken - Buy Bitcoin & Crypto Exchangecom.ing.mobileING Bankierencom.kraken.invest.appKraken - Buy Bitcoin & Crypto Tradingcom.kraken.invest.appKrake	com.comeco.teo	TEO - Das neue Multibanking
com.crypto.multiwalletGuarda Crypto Bitcoin Walletcom.cryptonator.androidCryptonator cryptocurrency walletcom.db.pbc.miabancaLa Mia Bancacom.db.pwcc.dbmobileDeutsche Bank Mobilecom.defi.walletCrypto.com 1 DeFi Walletcom.digifinex.appDigiFinex - Buy & Sell Bitcoin, Crypto Tradingcom.enjin.mobile.walletEnjin: Bitcoin, Ethereum, Biockchain Crypto Walletcom.etoro.openbookeToro - Smart Crypto Trading Made Easycom.etoro.walleteToro Moneycom.fideuram.alfabetobankingAlfabeto Bankingcom.fideuram.alfabetobankingFidor Smart Bankingcom.fideuram.alfabetobankingfirat directcom.gemini.android.appGemini: Buy Bitcoin Instantlycom.getpenta.appPenta – Business Banking Appcom.grypl.android.shell.BOSBank of Scotland Mobile Banking: secure on the gocom.grypl.android.shell.MalifaxHalifax: the banking apt that gives you extracom.hanseaticbank.bankingHanseatic Bank Mobilecom.hanseaticbank.bankingHanseatic Bank Mobilecom.hanseaticbank.bankingHanseatic Bank Mobilecom.hanseaticbank.bankingHanseatic Bank Mobilecom.hittechsexpertilmited.hitbtcHitBTC – Bitcoin Trading and Crypto Exchangecom.ing.mobileING Bankierencom.kraken.invest.appKraken -Buy Bitcoin & Crypto Tradingcom.kraken.invest.appKraken Futures: Bitcoin & Crypto Tradingcom.kraken.invest.appKraken Futures: Bitcoin & Crypto Futures Tradingcom.kubi.kucoinKuCoin: Bitcoin Exchange & Crypto Wallet <td>com.cooperativebank.bank</td> <td>The Co-operative Bank</td>	com.cooperativebank.bank	The Co-operative Bank
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Package name	Application name
fr.mafrenchbank	Ma French Bank
io.atomicwallet	Bitcoin Wallet & Ethereum Ripple ZIL DOT
io.bluewallet.bluewallet	BlueWallet Bitcoin Wallet
io.cex.app.prod	CEX.IO Cryptocurrency Exchange
io.metamask	MetaMask - Buy, Send and Swap Crypto
io.safepal.wallet	SafePal-Crypto wallet BTC NFTs
it.bcc.iccrea.mycartabcc	myCartaBCC
it.bnl.apps.banking	BNL
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it.caitalia.apphub	Crédit Agricole Italia
it.carige	Carige Mobile
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it.ingdirect.app	ING Italia
it.nogood.container	UBI Banca
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mw.org.freewallet.app	Bitcoin & Crypto Blockchain Wallet: Freewallet
net.bitstamp.app	Bitstamp – Buy & Sell Bitcoin at Crypto Exchange
net.bnpparibas.mescomptes	Mes Comptes BNP Paribas
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nl.asnbank.asnbankieren	ASN Mobiel Bankieren
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Package name	Application name
nl.regiobank.regiobankieren	RegioBank - Mobiel Bankieren
nl.snsbank.snsbankieren	SNS Mobiel Bankieren
one.tomorrow.app	Tomorrow: Mobile Banking
org.electrum.electrum	Electrum Bitcoin Wallet
org.toshi	Coinbase Wallet — Crypto Wallet & DApp Browser
piuk.blockchain.android	Blockchain Wallet. Bitcoin, Bitcoin Cash, Ethereum
posteitaliane.posteapp.appbpol	BancoPosta
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uk.co.hsbc.hsbcukmobilebanking	HSBC UK Mobile Banking
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