



About Me





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Android, malware, frida

Invictus







What is Joker anyway ?



Found by @s_metanka and his team

An Android SMS Subscription Bot

Silently subscribes users to paid services (weekly/monthly)

In initial report total number of download was 472,000 and 24 apps



What is Joker anyway ?



Different types of apps:

- → Camera
- → VPN
- → Lock
- → Wallpaper
- → SMS
- → ...







 \rightarrow Think as a threat actor







- → Think as a threat actor
 - → Different types of apps? Should I write the each app from scratch ?







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 - → Different types of apps? Should I write the each app from scratch ?
 - → How will I distribute my apk ? (lots of installs in first days)







- → Think as a threat actor
 - → Different types of apps? Should I write the each app from scratch ?
 - → How will I distribute my apk ?
 - → If you can't distribute fast, people will complain and app will be removed from GP





Distribution of Apps:

→ Saw @sh1shkova's tweet



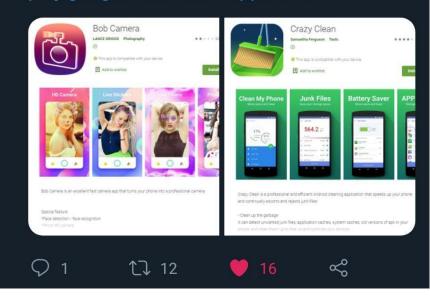


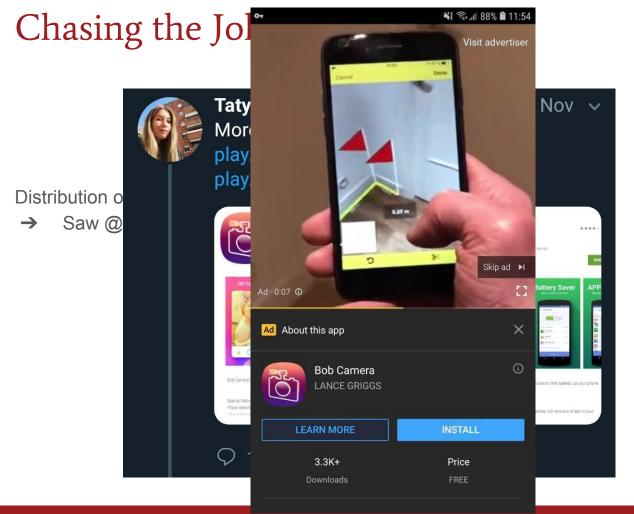


Tatyana Shishkova @ Botconf ... · 08 Nov · More #Joker Trojans on Google Play: play.google.com/store/apps/det... play.google.com/store/apps/det...

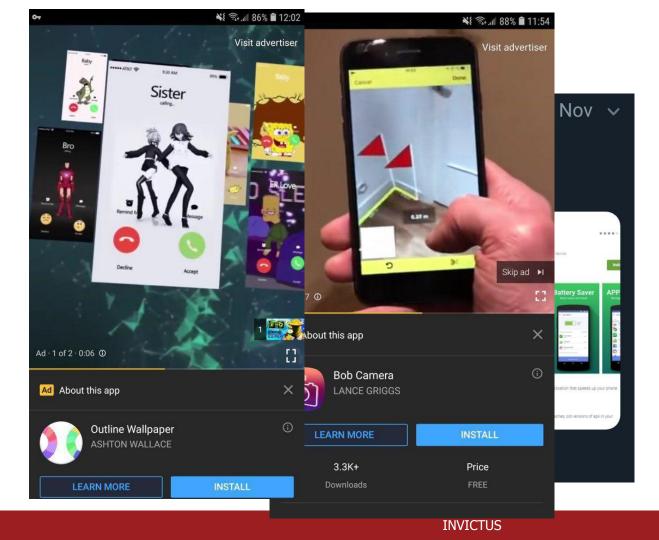
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→ Saw @

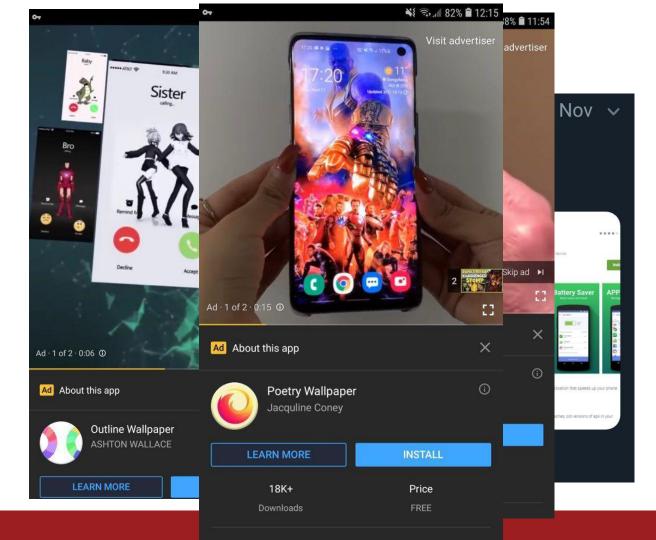




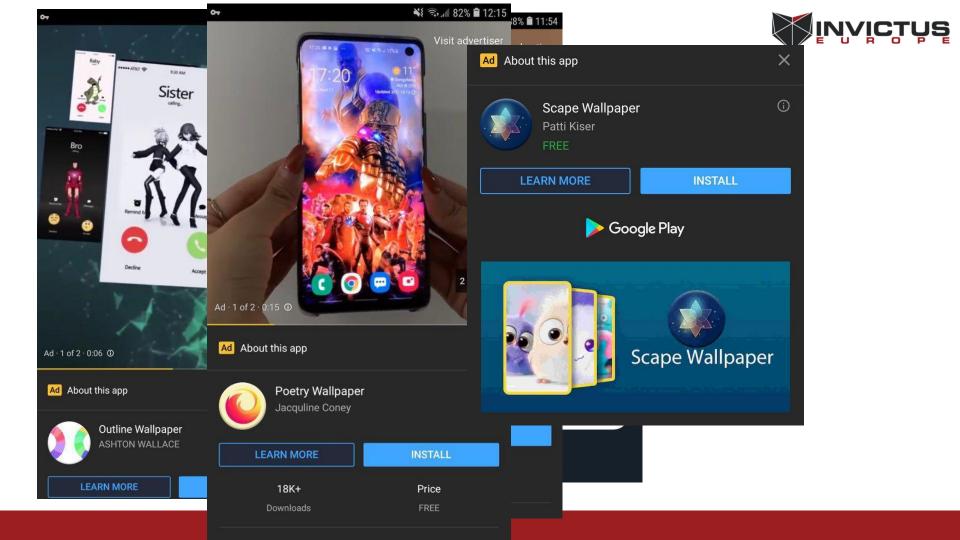


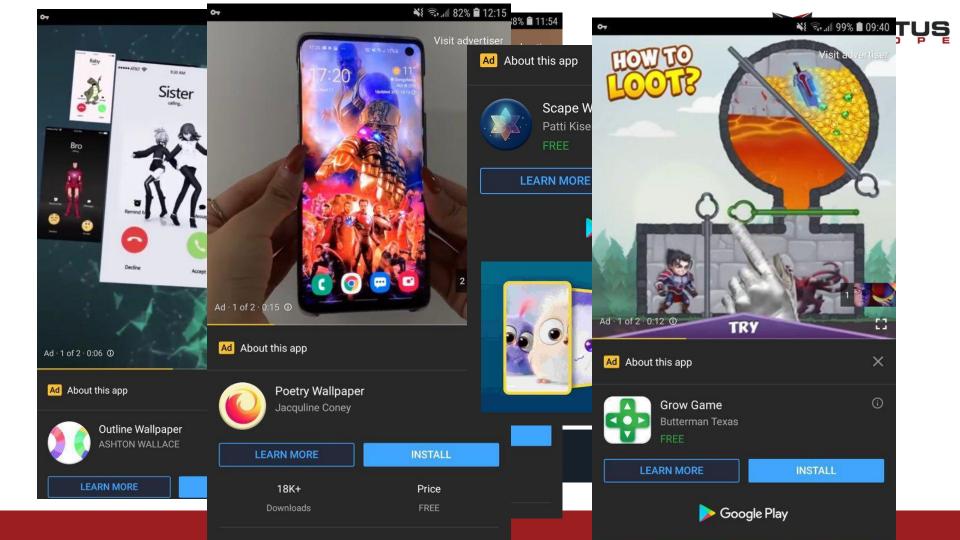


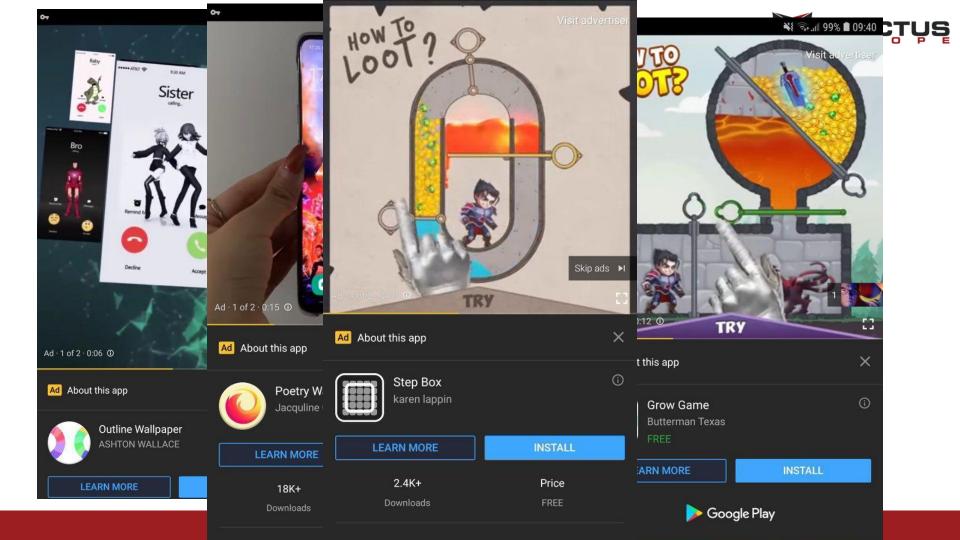


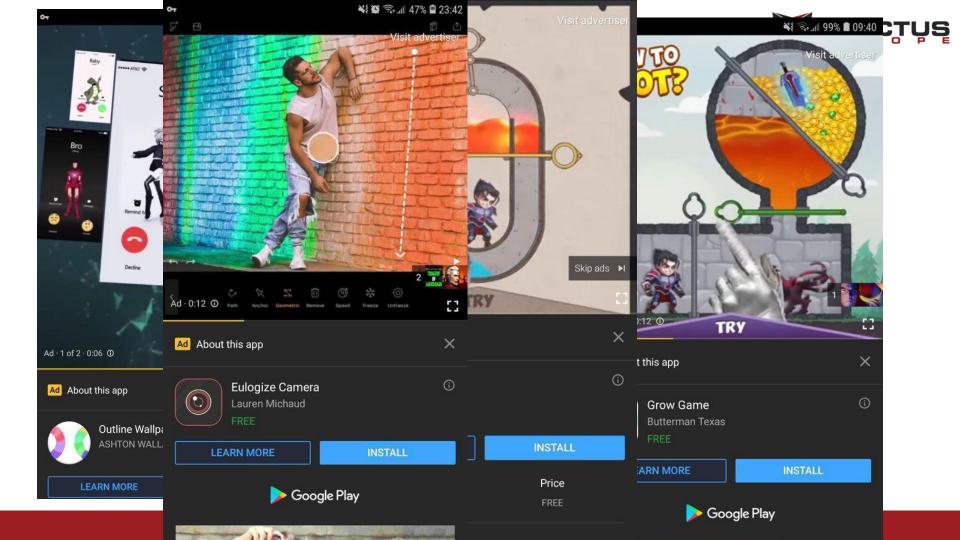


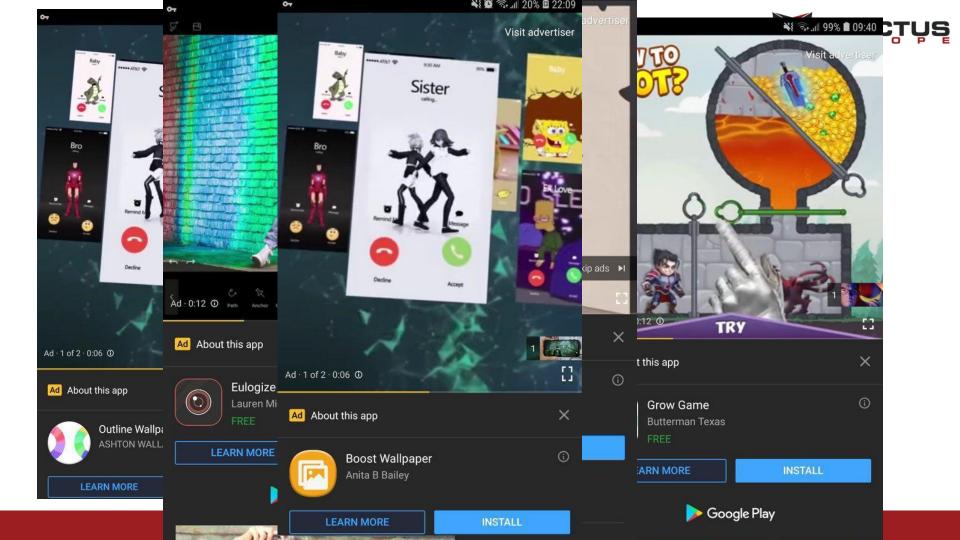


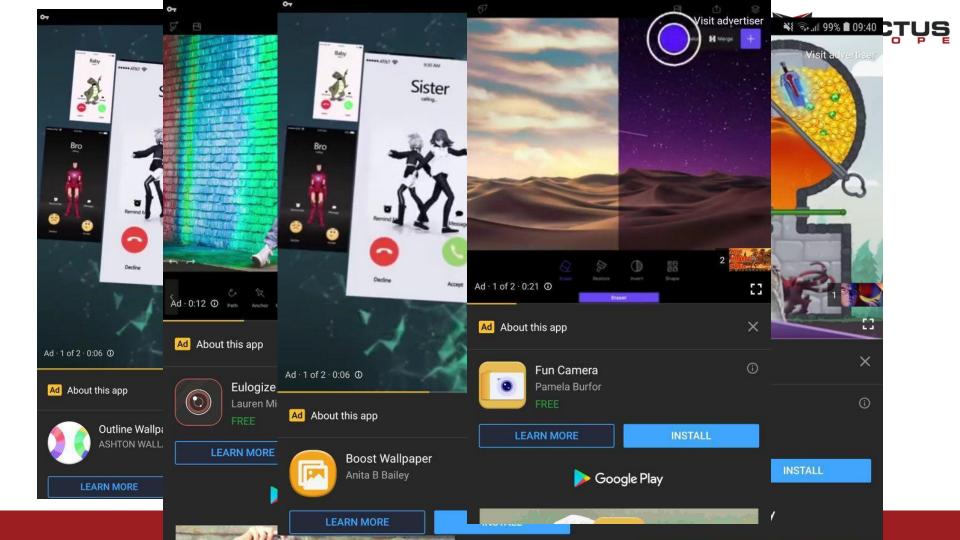


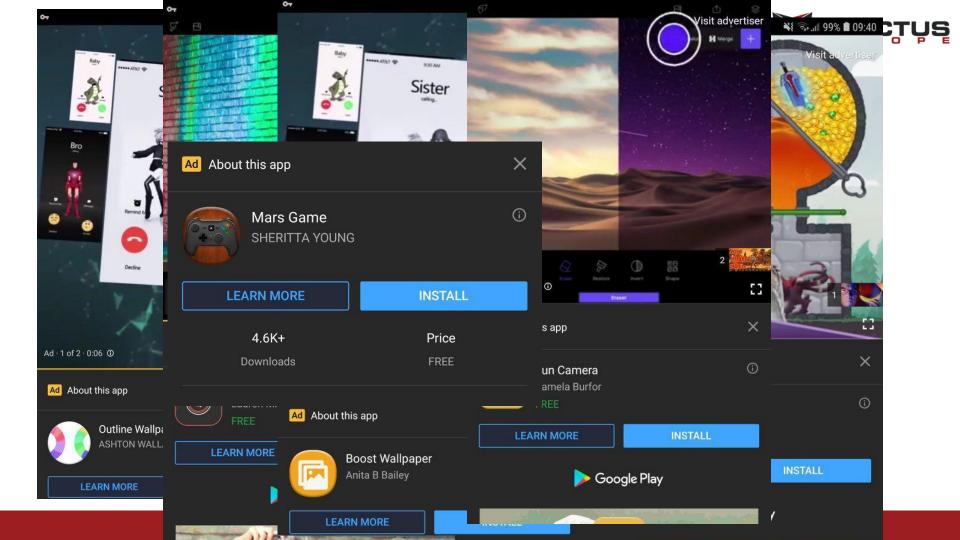


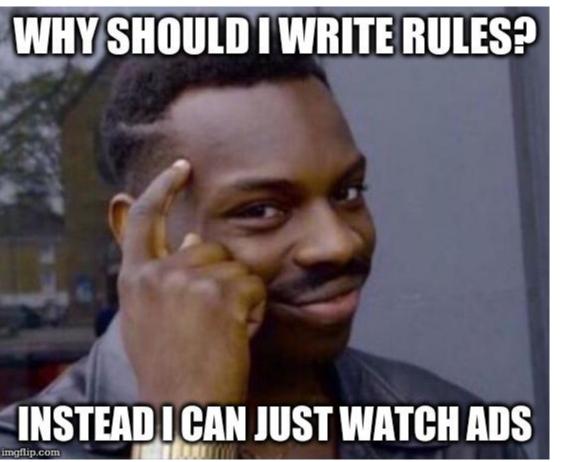
















Distribution of Apps:

- → Saw @sh1shkova's tweet
- → They were definitely using Youtube ads
- → Watching Youtube Ads to get Trojan :D





Different types of Apps:

- → Permissions will differ but my intentions will stay same
- → Same subset of permissions:
 - perm:android.permission.GET_ACCOUNTS AND perm:android.permission.CHANGE_WIFI_STATE AND perm:android.permission.READ_PHONE_STATE





apklab.io comes to help







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Different types of Apps:

- → Permissions will differ but my intentions will be same
- → Same subset of permissions:
- \rightarrow Add malicious code to legitimate apps.
 - ◆ Trace back from legitimate apps ???









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OR AND av: C	<pre>f:CheckForSuperuserBinary AND f:GetDefaultSMSPackage AND perm:android.permission.GET_ACCOUNTS AND perm:android.permission.CHANGE_WIFI_STATE AND perm:android.permission.READ_PHONE_STATE AND f:ExecutesExternalCodeDexClassLoader</pre>		Tools 💌
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In the end lots of people protected. Samples are reported to Google and removed from Google Play Store

Only in November 60 apps with over 1.000.000 installations







Thanks for listening





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