

Magnet CTF:

Question 2 Solution Walk-Through

Challenge 2 (OCT 12-18) PIP Install: What domain was most recently viewed via an app that has picture-in-picture capability?



For the week 2 challenge, we're using the same Android image we examined last week. From the question there's two factors involved, application capability and application usage.

The first thing to understand is what applications on the device have PIP (Picture in Picture) capability.

Magnet AXIOM Examine v4.5.0.21589 - MagnetCTF

File Tools Process Help

MUSAndroid_folder Artifacts Content types Date and time Tags and comments Profiles Partial results Keyword lists CLEAR FILTERS Type a search term... GO ADVANCED

FILTERS Skin tone Similar pictures

SOCIAL NETWORKING 1,801

MEDIA 34,083

EMAIL 87

DOCUMENTS 633

MOBILE 357

- Accounts Information 6
- Android Contacts 2
- Android Device Information 1
- Android Sim Card Information 1
- Android Wi-Fi Profiles 10
- Google Play Application Details 82
- Google Play Installed Applications 72
- Google Play Searches 4
- Installed Applications 179

OPERATING SYSTEM 12,449

- Android KeyStore 52
- Android Usage History 3,885
- Application Activity - Android 4

MATCHING RESULTS (179 of 358)

Package Name	Insta...	Plat...	Inter...	Displ...
com.google.android.googlequicksearch		Android	301074143	Google
com.google.android.trichromelibrary		Android	398709933	Trichrom
com.google.android.trichromelibrary		Android	398711733	Trichrom
com.google.android.trichromelibrary		Android	398711933	Trichrom
com.google.android.trichromelibrary		Android	398713233	Trichrom
com.google.android.trichromelibrary		Android	398714933	Trichrom
com.google.android.tts		Android	210315904	Google
com.google.android.webview		Android	398714933	Android
com.google.android.videos		Android	41800375	Google
com.google.android.youtube		Android	1511640512	YouTube
com.google.android.youtube		Android	1511640512	YouTube
com.google.ar.core		Android	200302046	
com.google.intelligence.sense		Android	1183	Pixel Art
com.google.ar.core		Android	200302046	Google
com.google.audio.hearing.visualization...		Android	17829	Live Trac
com.google.vr.ocore		Android	1607363513	Google
com.gulshan Singh.hackerrivallpaper		Android	13	Hacker I
com.google.vr.apps.onemont		Android	200109006	Playgro
com.hecorat.screenrecorder.free		Android	50205	AZ Screenshot
com.joeykrim.rootcheck		Android	192	Root Ch
com.quzup.core		Android	1581930761	QuizUp

com.hecorat.screenrecorder.free

Some information about this item cannot be displayed.

DETAILS

ARTIFACT INFORMATION

Package Name: com.hecorat.screenrecorder.free

Platform: Android

Internal Version: 50205

Display Name: AZ Screen Recorder

Display Version: 5.6.4

EVIDENCE INFORMATION

Source: PhysicalDrive2 - Partition 1 (Microsoft NTFS, 953.87 GB) Labs (E:\) - (ROOT) \MagnetCTF \MUS_Android\data \vapp \com.hecorat.screenrecorder.free.apk \GoogleHu84c5E8K E3_Q==\base.apk

Recovery Method: Parsing

Deleted source

TAGS AND COMMENTS

TAGS (1)

- Of interest

ADD NEW TAG

Select an existing tag:

- ☐ Bookmark
- ☐ Evidence
- ☐ Exceptions
- ☐ Flag
- ☐ PIP Apps

COMMENTS (0)

No comments have been added yet

ADD COMMENT

MANAGE TAGS

Time zone: UTC+000

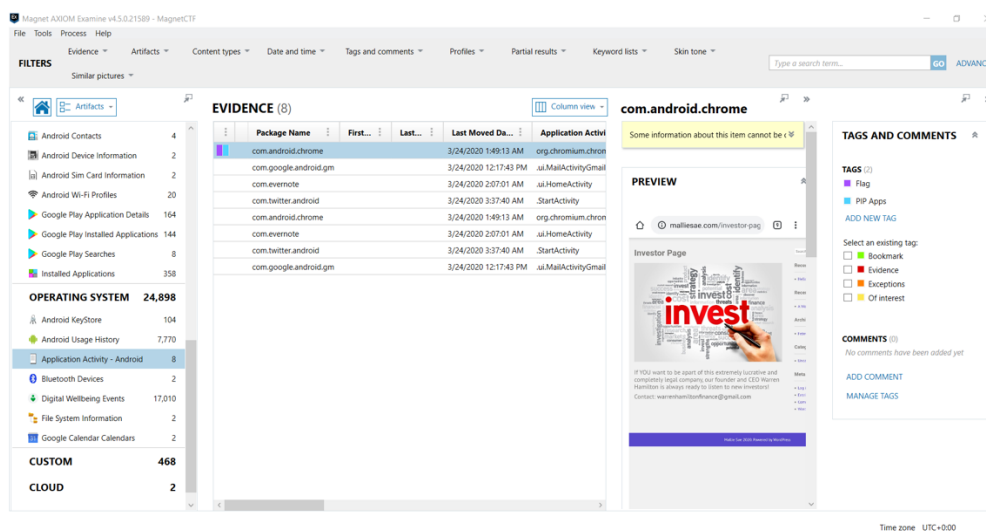
I reviewed the installed applications on the device looking for anything that could be PIP related. A screen recording application caught my attention (googled to understand capability), [but this was not the 'Droid \(app\) we're looking for](#).

One of the Discord users shared this helpful link describing the capability and what applications featured PIP support.

<https://nokiapoweruser.com/list-apps-support-oreo-picture-picture-mode-enable/>

Back to the applications I tagged anything listed that showed up in the PIP article.

From here I proceeded to look at the **Application Activity – Android**. One of the applications we can see recent activity for is Google Chrome. From the previously referenced article we know this app supports PIP.



In the preview card we can see that it was captured that Chrome was used to visit a URL beginning with [MallieSae.com](#).

The artifact for this can be found at [MUS_Android.tar\data\system_ce\0\snapshots\320.jpg](#)

Answer: Google Chrome, an app that supports PIP, was recently used visit the domain **malliesae.com**