# iOS Third-Party Apps Forensics

REFERENCE GUIDE

The aim of this poster is to provide a list of the most interesting files and folders in the "Data" and "Shared" folders for the most commonly used third-party apps.

DFPS iOS-APPS-v1.2 09-22 This poster was created by Mattia Epifani (@mattiaep) with support of the SANS DFIR Faculty. ©2022 Mattia Epifani. All Rights Reserved. iOS third-party apps can be installed from the Apple App Store, where they are organized based on categories (e.g., Social Networking, Business/Productivity, Navigation & Travel, and so on).

Once an app is installed on an iOS device:

- App Bundle is installed in a subfolder in the /private/var/containers/Bundle folder
- App Data is stored in a subfolder in the /private/var/mobile/Containers/Data/Application/ folder (App Sandbox)

The easiest way to track down an iOS application's Data folder is to analyze the /private/var/mobile/Library/FrontBoard/applicationstate.db database, as described in a blog post by Alexis Brignoni<sup>2</sup>.

Some Apps can also store data in other subfolders like the /private/var/mobile/Containers/Share/AppGroup/ folder. Two good ways to locate the Sandbox folder for the AppGroup are mentioned in blog posts by Scott Vance<sup>3</sup> and Yogesh Khatri<sup>4</sup>.

The internal structure of an App folder can be determined by the developer, but Apple provides some guidelines in its File System Programming Guide<sup>5</sup>.

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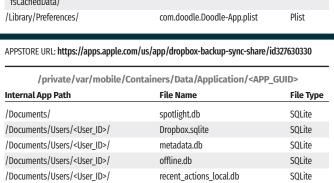
- https://developer.apple.com/library/archive/documentation/FileManagement/Conceptual/FileSystemProgrammingGuide/FileSystemOverview/FileSystemOverview.html
- https://abrignoni.blogspot.com/2018/12/identifying-installed-and-uninstalled.html https://blog.d204n6.com/2020/09/ios-tracking-bundle-ids-for-containers.html
- 4 https://www.swiftforensics.com/2021/01/ios-application-groups-shared-data.html 5 https://developer.apple.com/library/archive/documentation/FileManagement/Conceptual/FileSystemProgrammingGuide/FileSystemOverview/FileSystemOverview.html

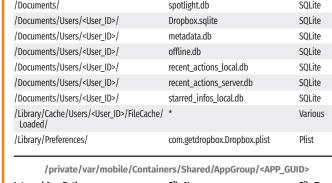
#### **Business/Productivity**

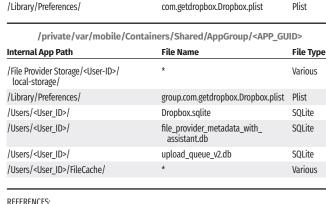
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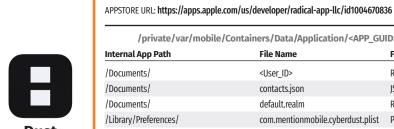
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/Documents/	doodle.yapdb	SQLite	
/Library/Caches/com.doodle.Doodle-App/fsCachedData/	*	Various	
/Library/Preferences/	com.doodle.Doodle-App.plist	Plist	







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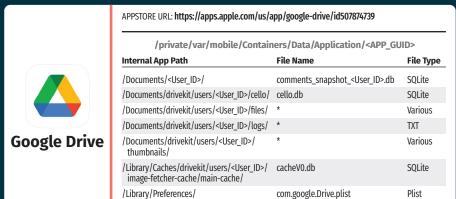


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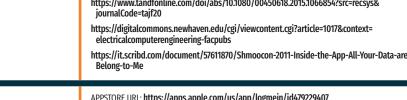


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/Documents/drivekit/users/ <user_id>/ gdx-cello/</user_id>	cello.db	SQLite	
/Library/Application Support/data/ <email_address>/</email_address>	sqlitedb	SQLite	





Internal App Path	File Name	File Ty
/Documents/	Messenger.sqlite	SQLite
/Documents/LIImageCache	*	Various
/Library/Caches/WebKit/NetworkCache/	*	Various
/Library/Preferences/	com.linkedin.LinkedIn.plist	Plist





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/Library/LogMeInConfig/	sessiondata.xml	XML	
/Library/Preferences/	com.logmein.logmein.plist	Plist	



Microsoft

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/SplashBoard/Snapshots/	*	KTX
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APPSTORE URL: https://apps.apple.com/us/app/silent-phone/id554269204

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SDWebImageCache.default/

Library/Preferences/

/SplashBoard/Snapshots/

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/Library/WebKit/WebsiteData/LocalStorage/	file_0.localstorage	SQLite		

https://abrignoni.blogspot.com/2018/10/finding-slack-app-messages-in-ios.html



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https://www.x41-dsec.de/reports/X41-Kudelski-Wire-Security-Review-iOS.pdf

https://wire-docs.wire.com/download/Wire+Security+Whitepaper.pdf

https://blog.oxygen-forensic.com/wire-app-extraction



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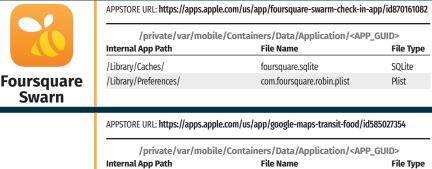




#### Navigation & Travel



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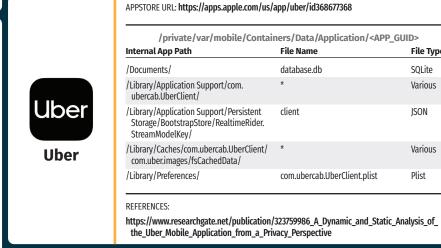
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		/Documents/WatchedFlights/	WatchedFlights.json	JSON
		/Library/Caches/com.hackemist. SDImageCache/default/	*	JPG
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66	/Documents/	logged_in_user_info	Plist
	/Documents/	shortlist	Plist
Tripadvisor	/Documents/	ta-journal.sqlite	SQLite
ina duda au	/Documents/	TripAdvisor-Preferences.plist	Plist
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/Library/Preferences/	com.waze.iphone.plist	Plist

APPSTORE URL: https://apps.apple.com/us/app/waze-navigation-live-traffic/id323229106

#### **Utilities**

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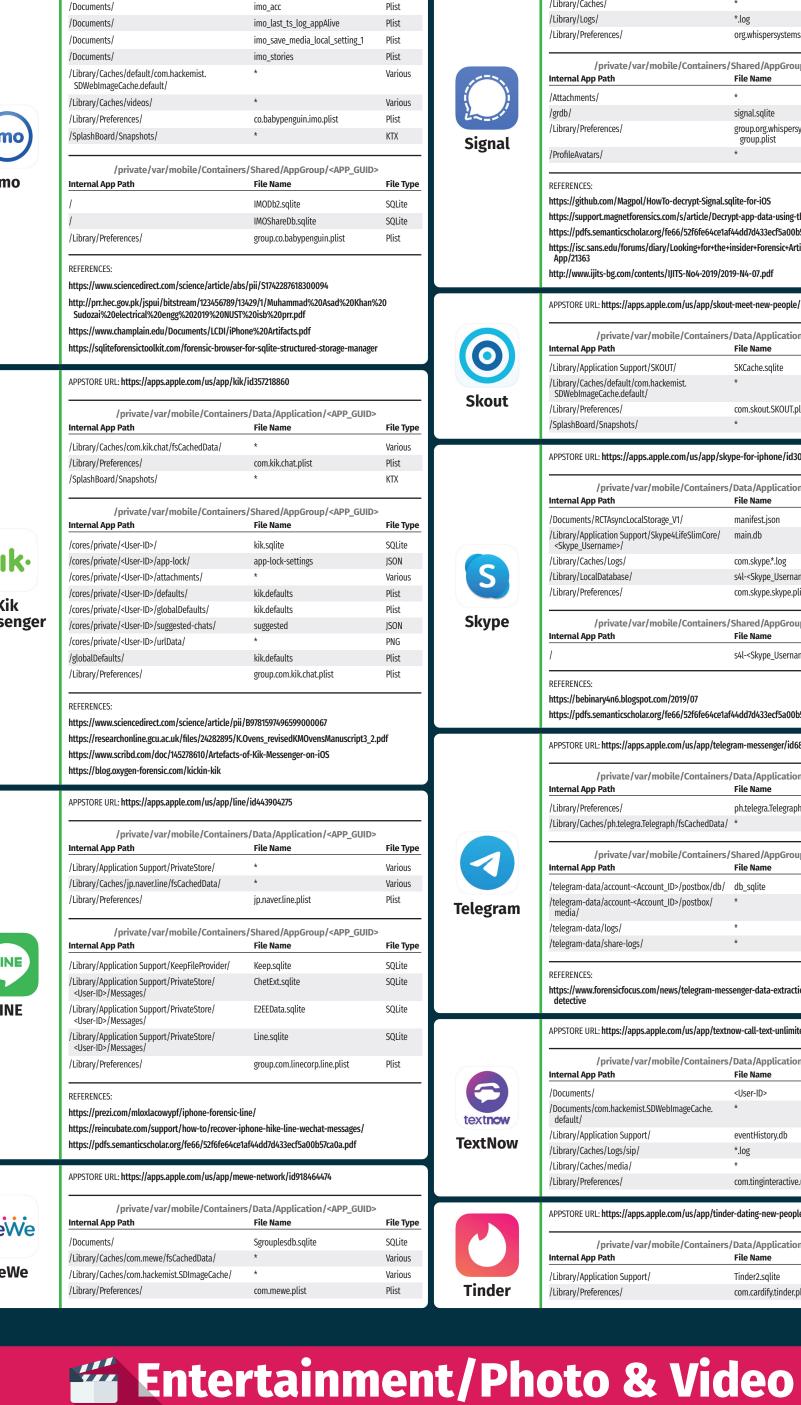
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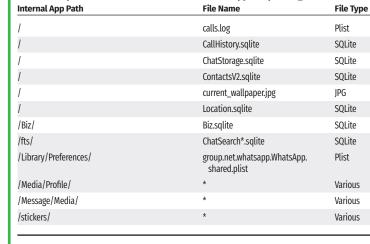
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https://thebinaryhick.blog/2019/08/23/wickr-alright-well-call-it-a-draw

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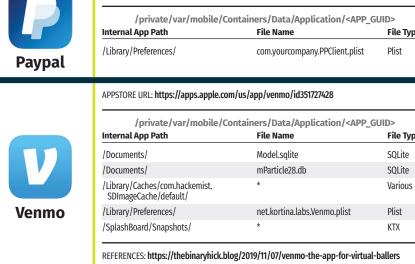
### **Finance**

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## **News**

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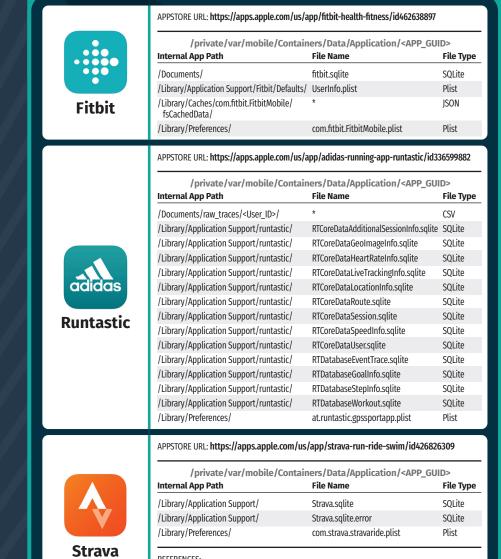
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