MOBSF

ANDROID STATIC ANALYSIS REPORT

Pathway (2.3.119)

File Name:	com.pathwaymedical.pathway_1639118061.apk
Package Name:	com.pathwaymedical.pathway
Scan Date:	Sept. 1, 2025, 7:05 a.m.
App Security Score:	46/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	8/432

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
5	27	3	2	2

FILE INFORMATION

File Name: com.pathwaymedical.pathway_1639118061.apk
Size: 48.67MB
MD5: 80f6d836bdc9baab43f2b870deda4819
SHA1: 84e417f89350ac2fd189c9b3f1b32a167c4ef426
SHA256: 3fc8f5fb08d825a97e93dfb17519a75899a473958bbfe8b2a0ba567368f9f34b

APP INFORMATION

App Name: Pathway
Package Name: com.pathwaymedical.pathway
Main Activity: com.pathwaymedical.pathway.MainActivity
Target SDK: 34
Min SDK: 23
Max SDK:
Android Version Name: 2.3.119

Android Version Code: 1639118061

APP COMPONENTS

Activities: 15
Services: 10
Receivers: 18
Providers: 8
Exported Activities: 4
Exported Services: 1
Exported Receivers: 8
Exported Providers: 0

CERTIFICATE INFORMATION

Binary is signed
v1 signature: True
v2 signature: True
v3 signature: True
v4 signature: False
X.509 Subject: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2021-04-28 15:51:41+00:00
Valid To: 2051-04-28 15:51:41+00:00
Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Serial Number: 0x51ef9ff27a2038a3c9a41c38f384f27eafc65f72
Hash Algorithm: sha256
md5: 558895799eab290475b9d12cad29ab9f
sha1: 8c75a2bc507b36d3ae18dc82b367b2649150f21f
sha256: 095b9e8773ba04e8bdf29e254a6a3d927c71b3b3ff7782d7590d01a5547b3625
sha512: 14e68bf77b6197b13a7e5d6cf7e299f169e52ca0a9b0ba7f755f9678892769b2055742e2b9c972d7a190be327a56dea507b0b93f15fe5d1cea1d2080f8c1214e
PublicKey Algorithm: rsa
Bit Size: 4096
Fingerprint: 29dcc6473f8865d4983f8d95fbb2eae4ec753e26fe86f61b8aaafbf8314ec589
Found 1 unique certificates

APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
com.android.vending.BILLING	normal	application has in-app purchases	Allows an application to make in-app purchases from Google Play.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.ACCESS_WIFI_STATE	normal	view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.
com.google.android.gms.permission.AD_ID	normal	application shows advertisements	This app uses a Google advertising ID and can possibly serve advertisements.
android.permission.READ_MEDIA_IMAGES	dangerous	allows reading image files from external storage.	Allows an application to read image files from external storage.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.DETECT_SCREEN_CAPTURE	normal	notifies when a screen capture of the app's windows is attempted.	Allows an application to get notified when a screen capture of its windows is attempted.
android.permission.USE_BIOMETRIC	normal	allows use of device-supported biometric modalities.	Allows an app to use device supported biometric modalities.
android.permission.USE_FINGERPRINT	normal	allow use of fingerprint	This constant was deprecated in API level 28. Applications should request USE_BIOMETRIC instead.
com.pathwaymedical.pathway.permission.C2D_MESSAGE	unknown	Unknown permission	Unknown permission from android reference
android.permission.POST_NOTIFICATIONS	dangerous	allows an app to post notifications.	Allows an app to post notifications
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
com.google.android.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.
com.sec.android.provider.badge.permission.READ	normal	show notification count on app	Show notification count or badge on application launch icon for samsung phones.
com.sec.android.provider.badge.permission.WRITE	normal	show notification count on app	Show notification count or badge on application launch icon for samsung phones.
com.htc.launcher.permission.READ_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for htc phones.
com.htc.launcher.permission.UPDATE_SHORTCUT	normal	show notification count on app	Show notification count or badge on application launch icon for htc phones.
com.sonyericsson.home.permission.BROADCAST_BADGE	normal	show notification count on app	Show notification count or badge on application launch icon for sony phones.
com.sonymobile.home.permission.PROVIDER_INSERT_BADGE	normal	show notification count on app	Show notification count or badge on application launch icon for sony phones.

PERMISSION	STATUS	INFO	DESCRIPTION
com.anddoes.launcher.permission.UPDATE_COUNT	normal	show notification count on app	Show notification count or badge on application launch icon for apex.
com.majeur.launcher.permission.UPDATE_BADGE	normal	show notification count on app	Show notification count or badge on application launch icon for solid.
com.huawei.android.launcher.permission.CHANGE_BADGE	normal	show notification count on app	Show notification count or badge on application launch icon for huawei phones.
com.huawei.android.launcher.permission.READ_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for huawei phones.
com.huawei.android.launcher.permission.WRITE_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for huawei phones.
android.permission.READ_APP_BADGE	normal	show app notification	Allows an application to show app icon badges.
com.oppo.launcher.permission.READ_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for oppo phones.
com.oppo.launcher.permission.WRITE_SETTINGS	normal	show notification count on app	Show notification count or badge on application launch icon for oppo phones.
me.everything.badger.permission.BADGE_COUNT_READ	unknown	Unknown permission	Unknown permission from android reference

PERMISSION	STATUS	INFO	DESCRIPTION
me.everything.badger.permission.BADGE_COUNT_WRITE	unknown	Unknown permission	Unknown permission from android reference
android.permission.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.
com.pathwaymedical.pathway.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.

APKID ANALYSIS

FILE	DETAILS
80f6d836bdc9baab43f2b870deda4819.apk	<table><tr><th>FINDINGS</th><th>DETAILS</th></tr><tr><td>Anti-VM Code</td><td>possible VM check</td></tr><tr><td>Obfuscator</td><td>Kiwi encrypter</td></tr></table>

<table>
<tr><th>FILE</th><th>DETAILS</th></tr>
<tr><td>classes.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.FINGERPRINT check
Build.MANUFACTURER check</td></tr>
<tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr>
</table>
</td></tr>
<tr><td>classes2.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>FILE</th><th>DETAILS</th></tr>
<tr><td>classes3.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.FINGERPRINT check
Build.MODEL check
Build.MANUFACTURER check
Build.PRODUCT check
Build.BOARD check
possible Build.SERIAL check
Build.TAGS check
SIM operator check
network operator name check
ro.kernel.qemu check
possible VM check</td></tr>
<tr><td>Obfuscator</td><td>Kiwi encrypter</td></tr>
<tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr>
</table>
</td></tr>
</table>

FILE	DETAILS
classes4.dex	<table><tr><th>FINDINGS</th><th>DETAILS</th></tr><tr><td>Anti-VM Code</td><td>Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check Build.BOARD check possible Build.SERIAL check network operator name check possible VM check</td></tr><tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr></table>

<table>
<tr><th>FILE</th><th>DETAILS</th></tr>
<tr><td>classes5.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.FINGERPRINT check
Build.MODEL check
Build.MANUFACTURER check
Build.PRODUCT check
Build.HARDWARE check
Build.BOARD check
Build.TAGS check
possible VM check</td></tr>
<tr><td>Anti Debug Code</td><td>Debug.isDebuggerConnected() check</td></tr>
<tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr>
</table>
</td></tr>
<tr><td>classes6.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Compiler</td><td>unknown (please file detection issue!)</td></tr>
</table>
</td></tr>
</table>

BROWSABLE ACTIVITIES

ACTIVITY	INTENT

ACTIVITY	INTENT
com.pathwaymedical.pathway.MainActivity	Schemes: https://, com.pathwaymedical.pathway://, Hosts: link.pathway.md, www.pathway.md, Paths: /diseases/*, /findings/*, /pathways/*, /protocols/*, /specialties/*, /studies/*, Path Patterns: /en/calculators/*,
com.facebook.CustomTabActivity	Schemes: fbconnect://, Hosts: cct.com.pathwaymedical.pathway,

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

CERTIFICATE ANALYSIS

HIGH: 0 | WARNING: 1 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
Application vulnerable to Janus Vulnerability	warning	Application is signed with v1 signature scheme, making it vulnerable to Janus vulnerability on Android 5.0-8.0, if signed only with v1 signature scheme. Applications running on Android 5.0-7.0 signed with v1, and v2/v3 scheme is also vulnerable.

MANIFEST ANALYSIS

HIGH: 2 | WARNING: 15 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable unpatched Android version Android 6.0-6.0.1, [minSdk=23]	high	This application can be installed on an older version of android that has multiple unfixed vulnerabilities. These devices won't receive reasonable security updates from Google. Support an Android version => 10, API 29 to receive reasonable security updates.
2	Application Data can be Backed up [android:allowBackup=true]	warning	This flag allows anyone to backup your application data via adb. It allows users who have enabled USB debugging to copy application data off of the device.
3	App Link assetlinks.json file not found [android:name=com.pathwaymedical.pathway.MainActivity] [android:host=https://link.pathway.md]	high	App Link asset verification URL (https://link.pathway.md/.well-known/assetlinks.json) not found or configured incorrectly. (Status Code: 404). App Links allow users to redirect from a web URL/email to the mobile app. If this file is missing or incorrectly configured for the App Link host/domain, a malicious app can hijack such URLs. This may lead to phishing attacks, leak sensitive data in the URI, such as PII, OAuth tokens, magic link/password reset tokens and more. You must verify the App Link domain by hosting the assetlinks.json file and enabling verification via [android:autoVerify="true"] in the Activity intent-filter.

NO	ISSUE	SEVERITY	DESCRIPTION
4	Broadcast Receiver (com.amazon.device.iap.ResponseReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.amazon.inapp.purchasing.Permission.NOTIFY [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
5	Activity (com.facebook.CustomTabActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
6	Broadcast Receiver (com.onesignal.notifications.receivers.FCMBroadcastReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.c2dm.permission.SEND [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
7	Activity (com.onesignal.notifications.activities.NotificationOpenedActivityHMS) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

NO	ISSUE	SEVERITY	DESCRIPTION
8	Broadcast Receiver (com.onesignal.notifications.receivers.NotificationDismissReceiver) is not Protected. [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
9	Broadcast Receiver (com.onesignal.notifications.receivers.BootUpReceiver) is not Protected. [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
10	Broadcast Receiver (com.onesignal.notifications.receivers.UpgradeReceiver) is not Protected. [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
11	Activity (com.onesignal.notifications.activities.NotificationOpenedActivity) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
12	Activity (com.onesignal.notifications.activities.NotificationOpenedActivityAndroid22AndOlder) is not Protected. [android:exported=true]	warning	An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
13	Broadcast Receiver (com.google.firebase.iid.FirebaseInstanceIdReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.c2dm.permission.SEND [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

NO	ISSUE	SEVERITY	DESCRIPTION
14	Service (androidx.work.impl.background.systemjob.SystemJobService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_JOB_SERVICE [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
15	Broadcast Receiver (androidx.work.impl.diagnostics.DiagnosticsReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

NO	ISSUE	SEVERITY	DESCRIPTION
16	Broadcast Receiver (androidx.profileinstaller.ProfileInstallReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
17	High Intent Priority (999) - {1} Hit(s) [android:priority]	warning	By setting an intent priority higher than another intent, the app effectively overrides other requests.

</> CODE ANALYSIS

HIGH: **2** | WARNING: **10** | INFO: **3** | SECURE: **2** | SUPPRESSED: **0**

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/airbnb/android/react/lottie/LottieAnimationViewPropertyManager.java com/airbnb/lottie/LottieAnimationView.java com/airbnb/lottie/PerformanceTracker.java com/airbnb/lottie/utils/LogcatLogger.java com/amazon/a/a/g/d.java com/amazon/a/a/o/c.java com/amazon/c/a/a/d.java com/amazon/device/drm/LicensingService.java com/amazon/device/drm/a/d/c.java com/amazon/device/iap/PurchasingService.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/amazon/device/iap/PurchasingService.java com/amazon/device/iap/internal/c/e.java com/amazon/device/simplesignin/BroadcastHandler.java com/amazon/device/simplesignin/SimpleSignInService.java com/amazon/device/simplesignin/a/a/c/b.java com/amazon/device/simplesignin/a/c.java com/amazon/device/simplesignin/a/c/b.java com/appsflyer/AFLogger.java com/appsflyer/internal/AFa1dSDK.java com/appsflyer/internal/AFa1tSDK.java com/appsflyer/internal/AFc1pSDK.java com/appsflyer/internal/AFd1aSDK.java com/appsflyer/internal/AFd1eSDK.java com/appsflyer/internal/AFd1iSDK.java com/appsflyer/internal/AFd1kSDK.java com/appsflyer/internal/AFd1mSDK.java com/appsflyer/internal/AFd1pSDK.java com/appsflyer/internal/AFd1qSDK.java com/appsflyer/internal/AFe1lSDK.java com/appsflyer/internal/AFe1wSDK.java com/appsflyer/internal/AFe1zSDK.java com/appsflyer/reactnative/RNAppsFlyerModule.java com/appsflyer/share/LinkGenerator.java com/brentvatne/common/api/BufferingStrategy.java com/brentvatne/common/api/Source.java com/brentvatne/common/toolbox/DebugLog.java com/brentvatne/exoplayer/CMCDConfig.java com/brentvatne/exoplayer/ExoPlayerView.java com/brentvatne/exoplayer/FullScreenPlayerView.java com/brentvatne/exoplayer/ReactExoplayerView.java com/brentvatne/exoplayer/ReactExoplayerViewManager.java com/brentvatne/exoplayer/VideoPlaybackService.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/brentvatne/react/ReactNativeVideoManager.java com/bumptech/glide/GeneratedAppGlideModuleImpl.java com/bumptech/glide/Glide.java com/bumptech/glide/disklrucache/DiskLruCache.java com/bumptech/glide/gifdecoder/GifHeaderParser.java com/bumptech/glide/gifdecoder/StandardGifDecoder.java com/bumptech/glide/integration/avif/AvifByteBufferBitmapDecoder.java com/bumptech/glide/load/data/AssetPathFetcher.java com/bumptech/glide/load/data/HttpUrlFetcher.java com/bumptech/glide/load/data/LocalUriFetcher.java com/bumptech/glide/load/data/mediastore/ThumbFetcher.java com/bumptech/glide/load/data/mediastore/ThumbnailStreamOpener.java com/bumptech/glide/load/engine/DecodeJob.java com/bumptech/glide/load/engine/DecodePath.java com/bumptech/glide/load/engine/Engine.java com/bumptech/glide/load/engine/GlideException.java com/bumptech/glide/load/engine/SourceGenerator.java com/bumptech/glide/load/engine/bitmap_recycle/LruArrayPool.java com/bumptech/glide/load/engine/bitmap_recycle/LruBitmapPool.java com/bumptech/glide/load/engine/cache/DiskLruCacheWrapper.java com/bumptech/glide/load/engine/cache/MemorySizeCalculator.java com/bumptech/glide/load/engine/executor/Glide

NO	ISSUE	SEVERITY	STANDARDS	FILES
				Executor.java com/bumptech/glide/load/engine/executor/RuntimeCompat.java com/bumptech/glide/load/engine/prefill/BitmapPreFillRunner.java com/bumptech/glide/load/model/ByteBufferEncoder.java com/bumptech/glide/load/model/ByteBufferFileLoader.java com/bumptech/glide/load/model/FileLoader.java com/bumptech/glide/load/model/ResourceLoader.java com/bumptech/glide/load/model/StreamEncoder.java com/bumptech/glide/load/resource/DefaultOnHeaderDecodedListener.java com/bumptech/glide/load/resource/bitmap/BitmapEncoder.java com/bumptech/glide/load/resource/bitmap/BitmapImageDecoderResourceDecoder.java com/bumptech/glide/load/resource/bitmap/DefaultImageHeaderParser.java com/bumptech/glide/load/resource/bitmap/Downsampler.java com/bumptech/glide/load/resource/bitmap/DrawableToBitmapConverter.java com/bumptech/glide/load/resource/bitmap/HardwareConfigState.java com/bumptech/glide/load/resource/bitmap/TransformationUtils.java com/bumptech/glide/load/resource/bitmap/VideoDecoder.java com/bumptech/glide/load/resource/gif/ByteBufferGifDecoder.java com/bumptech/glide/load/resource/gif/GifDrawableEncoder.java com/bumptech/glide/load/resource/gif/StreamGifDecoder.java com/bumptech/glide/manager/DefaultConnectivityMonitorFactory.java com/bumptech/glide/manager/RequestManager

NO	ISSUE	SEVERITY	STANDARDS	FILES
				Fragment.java com/bumptech/glide/manager/RequestManagerRetriever.java com/bumptech/glide/manager/RequestTracker.java com/bumptech/glide/manager/SingletonConnectivityReceiver.java com/bumptech/glide/manager/SupportRequestManagerFragment.java com/bumptech/glide/module/ManifestParser.java com/bumptech/glide/request/SingleRequest.java com/bumptech/glide/request/target/CustomViewTarget.java com/bumptech/glide/request/target/ViewTarget.java com/bumptech/glide/signature/ApplicationVersionSignature.java com/bumptech/glide/util/ContentLengthInputStream.java com/bumptech/glide/util/pool/FactoryPools.java com/caverock/androidsvg/CSSParser.java com/caverock/androidsvg/SVG.java com/caverock/androidsvg/SVGAndroidRenderer.java com/caverock/androidsvg/SVGImageView.java com/caverock/androidsvg/SVGParser.java com/caverock/androidsvg/SimpleAssetResolver.java com/github/penfeizhou/animation/FrameAnimationDrawable.java com/github/penfeizhou/animation/apng/decode/APNGDecoder.java com/github/penfeizhou/animation/decode/FrameSeqDecoder.java com/horcrux/svg/Brush.java com/horcrux/svg/ClipPathView.java com/horcrux/svg/ImageView.java com/horcrux/svg/LinearGradientView.java com/horcrux/svg/PatternView.java com/horcrux/svg/RadialGradientView.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	The App logs information. Sensitive information should never be logged.	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/horcrux/svg/UseView.java com/horcrux/svg/VirtualView.java com/ibits/react_native_in_app_review/AppReviewModule.java com/learnium/RNDeviceInfo/RNDeviceModule.java com/learnium/RNDeviceInfo/RNInstallReferrerClient.java com/learnium/RNDeviceInfo/resolver/DeviceIdResolver.java com/microsoft/codepush/react/CodePushUtils.java com/mixpanel/android/mpmetrics/AnalyticsMessages.java com/mixpanel/android/mpmetrics/ConfigurationChecker.java com/mixpanel/android/mpmetrics/MPConfig.java com/mixpanel/android/mpmetrics/MPDbAdapter.java com/mixpanel/android/mpmetrics/MixpanelAPI.java com/mixpanel/android/mpmetrics/PersistentIdentity.java com/mixpanel/android/mpmetrics/ResourceReader.java com/mixpanel/android/mpmetrics/SessionMetadata.java com/mixpanel/android/mpmetrics/SystemInformation.java com/mixpanel/android/util/HttpService.java com/mixpanel/android/util/MPLog.java com/onesignal/debug/internal/logging/Logging.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/ShortcutBadger.java com/onesignal/rnonesignalandroid/RNOneSignal.java com/op/sqlite/OPSQLiteModule.java com/proyecto26/inappbrowser/RNInAppBrowser.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/reactnativecommunity/asyncstorage/AsyncLocalStorageUtil.java com/reactnativecommunity/asyncstorage/AsyncStorageExpoMigration.java com/reactnativecommunity/asyncstorage/AsyncStorageModule.java com/reactnativecommunity/asyncstorage/ReactDatabaseSupplier.java com/reactnativecommunity/webview/RNCWebView.java com/reactnativecommunity/webview/RNCWebViewClient.java com/reactnativecommunity/webview/RNCWebViewManagerImpl.java com/revenuecat/purchases/common/DefaultLogHandler.java com/revenuecat/purchases/hybridcommon/CommonKt.java com/revenuecat/purchases/hybridcommon/mappers/PurchasesPeriod.java com/revenuecat/purchases/react/RNPurchasesModule.java com/swmansion/gesturehandler/react/RNGestureHandlerModule.java com/swmansion/gesturehandler/react/RNGestureHandlerRootHelper.java com/swmansion/gesturehandler/react/RNGestureHandlerRootView.java com/swmansion/reanimated/NativeMethodsHelper.java com/swmansion/reanimated/ReanimatedModule.java com/swmansion/reanimated/ReanimatedUIManagerFactory.java com/swmansion/reanimated/keyboard/WindowsInsetsManager.java com/swmansion/reanimated/layoutReanimation/AnimationsManager.java com/swmansion/reanimated/layoutReanimation/ReanimatedNativeHierarchyManager.java com/swmansion/reanimated/layoutReanimation

NO	ISSUE	SEVERITY	STANDARDS	FILES
				/ScreensHelper.java com/swmansion/reanimated/layoutReanimation/SharedTransitionManager.java com/swmansion/reanimated/layoutReanimation/TabNavigatorObserver.java com/swmansion/reanimated/nativeProxy/NativeProxyCommon.java com/swmansion/reanimated/sensor/ReanimatedSensorContainer.java com/swmansion/rnscreens/ScreenStackHeaderConfigViewManager.java com/swmansion/rnscreens/ScreensModule.java com/swmansion/rnscreens/SearchBarManager.java com/swmansion/rnscreens/utils/ScreenDummyLayoutHelper.java com/th3rdwave/safeareacontext/SafeAreaView.java expo/modules/ExpoModulesPackage.java expo/modules/adapters/react/services/UIManagerModuleWrapper.java expo/modules/apploader/AppLoaderProvider.java expo/modules/constants/ConstantsService.java expo/modules/core/logging/OSLogHandler.java expo/modules/devlauncher/helpers/DevLauncherInstallationIDHelper.java expo/modules/devlauncher/launcher/configurators/DevLauncherExpoActivityConfigurator.java expo/modules/devmenu/devtools/DevMenuDevToolsDelegate$openJSInspector$1$1.java expo/modules/devmenu/extensions/DevMenuExtension.java expo/modules/devmenu/react/DevMenuPackagerCommandHandlersSwapper$swapCurrentCommandHandlers$1.java expo/modules/devmenu/react/DevMenuPackagerCommandHandlersSwapper.java expo/modules/devmenu/react/DevMenuShakeDetectorListenerSwapper.java expo/modules/devmenu/websockets/DevMenuC

NO	ISSUE	SEVERITY	STANDARDS	FILES
				ommandHandlersProvider.java expo/modules/filesystem/FileSystemModule$downloadResumableTask$2.java expo/modules/filesystem/FileSystemModule.java expo/modules/image/ExpoImageView.java expo/modules/image/ImageViewWrapperTarget.java expo/modules/image/ThumbnailRequestCoordinatorExtensionKt.java expo/modules/image/events/GlideRequestListener.java expo/modules/screencapture/ScreenshotEventEmitter.java expo/modules/securestore/SecureStoreModule.java expo/modules/updates/DisabledUpdatesController.java expo/modules/updates/EnabledUpdatesController.java expo/modules/updates/UpdatesDevLauncherController.java expo/modules/updates/UpdatesModule$definition$1$7$1.java expo/modules/updates/UpdatesUtils.java expo/modules/updates/codesigning/CodeSigningConfiguration.java expo/modules/updates/db/Converters.java expo/modules/updates/db/DatabaseHolder.java expo/modules/updates/db/Reaper.java expo/modules/updates/errorrecovery/ErrorRecovery.java expo/modules/updates/launcher/NoDatabaseLauncher.java expo/modules/updates/loader/FileDownloader.java expo/modules/updates/loader/Loader.java expo/modules/updates/loader/LoaderFiles.java expo/modules/updates/loader/LoaderTask$launchRemoteUpdateInBackground$1$1.java expo/modules/updates/loader/LoaderTask.java expo/modules/updates/loader/RemoteLoader.ja

NO	ISSUE	SEVERITY	STANDARDS	FILES
				va expo/modules/updates/manifest/EmbeddedManifestUtils.java expo/modules/updates/manifest/EmbeddedUpdate.java expo/modules/updates/manifest/ExpoUpdatesUpdate.java expo/modules/updates/manifest/ManifestMetadata.java expo/modules/updates/manifest/ResponseHeaderData.java expo/modules/updates/procedures/RelaunchProcedurerun1.java expo/modules/updates/selectionpolicy/SelectionPolicies.java io/sentry/SystemOutLogger.java io/sentry/android/core/AndroidLogger.java io/sentry/android/core/SentryLogcatAdapter.java io/sentry/android/replay/WindowManagerSpy.java io/sentry/android/replay/WindowSpy.java io/sentry/transport/StdoutTransport.java org/greenrobot/eventbus/Logger.java org/greenrobot/eventbus/util/ErrorDialogConfig.java org/greenrobot/eventbus/util/ErrorDialogManager.java org/greenrobot/eventbus/util/ExceptionToResourceMapping.java
				com/appsflyer/reactnative/RNAppsFlyerConstants.java com/brentvatne/common/api/DRMProps.java com/bumptech/glide/load/Option.java com/bumptech/glide/load/engine/DataCacheKey.java com/bumptech/glide/load/engine/EngineResource.java com/bumptech/glide/load/engine/ResourceCacheKey.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/bumptech/glide/manager/RequestManagerRetriever.java com/microsoft/codepush/react/CodePushConstants.java com/microsoft/codepush/react/CodePushTelemetryManager.java com/nimbusds/jose/HeaderParameterNames.java com/nimbusds/jose/jwk/JWKParameterNames.java com/onesignal/inAppMessages/internal/display/impl/WebViewManager.java com/onesignal/inAppMessages/internal/prompt/InAppMessagePromptTypes.java com/onesignal/inAppMessages/internal/prompt/impl/InAppMessagePrompt.java com/onesignal/notifications/bridges/OneSignalHmsEventBridge.java com/onesignal/notifications/internal/Notification.java com/onesignal/notifications/internal/bundle/impl/NotificationBundleProcessor.java com/onesignal/notifications/internal/common/NotificationConstants.java com/onesignal/notifications/internal/common/NotificationHelper.java com/onesignal/notifications/receivers/FCMBroadcastReceiver.java com/revenuecat/purchases/amazon/AmazonBillingKt.java com/revenuecat/purchases/amazon/AmazonCacheKt.java com/revenuecat/purchases/common/BackendKt.java com/revenuecat/purchases/common/BackgroundAwareCallbackCacheKey.java com/revenuecat/purchases/common/caching/DeviceCache.java com/revenuecat/purchases/common/diagnostics/DiagnosticsEntry.java
2	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/revenuecat/purchases/common/diagnostics/DiagnosticsHelper.java com/revenuecat/purchases/common/diagnostics/DiagnosticsTracker.java com/revenuecat/purchases/common/offlineentitlements/ProductEntitlementMapping.java com/revenuecat/purchases/common/verification/DefaultSignatureVerifier.java com/revenuecat/purchases/common/verification/Signature.java com/revenuecat/purchases/common/verification/SigningManager.java com/revenuecat/purchases/strings/ConfigureStrings.java com/revenuecat/purchases/subscriberattributes/SubscriberAttribute.java com/revenuecat/purchases/subscriberattributes/SubscriberAttributeKt.java expo/modules/adapters/react/NativeModulesProxy.java expo/modules/easclient/EASClientIDKt.java expo/modules/image/records/SourceMap.java expo/modules/interfaces/permissions/PermissionsResponse.java expo/modules/updates/UpdatesConfiguration.java expo/modules/updates/UpdatesModule.java expo/modules/updates/codesigning/CodeSigningAlgorithmKt.java expo/modules/updates/codesigning/ExpoProjectInformation.java expo/modules/updates/db/BuildData.java expo/modules/updates/loader/SigningInfo.java expo/modules/updates/manifest/ManifestMetadata.java io/sentry/Baggage.java io/sentry/SpanDataConvention.java io/sentry/TraceContext.java io/sentry/protocol/User.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
3	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	com/amazon/device/drm/LicensingService.java com/amazon/device/iap/PurchasingService.java com/nimbusds/jose/jwk/Curve.java expo/modules/updates/codesigning/CertificateChain.java expo/modules/updates/codesigning/CertificateChainKt.java
4	The App uses an insecure Random Number Generator.	warning	CWE: CWE-330: Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	com/amazon/a/a/b/b.java com/amazon/a/a/i/b.java com/amazon/a/a/l/c.java com/appsflyer/internal/AFa1vSDK.java com/appsflyer/internal/AFb1kSDK.java com/onesignal/common/AndroidUtils.java expo/modules/updates/UpdatesUtils.java
5	MD5 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/airbnb/lottie/network/NetworkCache.java com/appsflyer/internal/AFb1ySDK.java expo/modules/asset/AssetModule.java expo/modules/filesystem/FileSystemModule.java
6	SHA-1 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/amazon/a/a/o/b/a.java com/appsflyer/internal/AFb1ySDK.java com/revenuecat/purchases/common/UtilsKt.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
7	App can read/write to External Storage. Any App can read data written to External Storage.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/alpha0010/fs/FileAccessModule$cpExternal$1.java com/alpha0010/fs/FileAccessModuledf1.java com/learnium/RNDeviceInfo/RNDeviceModule.java com/op/sqlite/OPSQLiteModule.java com/reactnativecommunity/webview/RNCWebViewModuleImpl.java io/sentry/android/core/DeviceInfoUtil.java
8	Insecure WebView Implementation. Execution of user controlled code in WebView is a critical Security Hole.	warning	CWE: CWE-749: Exposed Dangerous Method or Function OWASP Top 10: M1: Improper Platform Usage OWASP MASVS: MSTG-PLATFORM-7	com/onesignal/inAppMessages/internal/display/impl/WebViewManager.java
9	Remote WebView debugging is enabled.	high	CWE: CWE-919: Weaknesses in Mobile Applications OWASP Top 10: M1: Improper Platform Usage OWASP MASVS: MSTG-RESILIENCE-2	com/onesignal/inAppMessages/internal/display/impl/WebViewManager.java
10	App uses SQLite Database and execute raw SQL query. Untrusted user input in raw SQL queries can cause SQL Injection. Also sensitive information should be encrypted and written to the database.	warning	CWE: CWE-89: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	com/mixpanel/android/mpmetrics/MPDbAdapter.java com/onesignal/core/internal/database/impl/OSDatabase.java com/onesignal/session/internal/outcomes/impl/OutcomeTableProvider.java com/reactnativecommunity/asyncstorage/AsyncLocalStorageUtil.java com/reactnativecommunity/asyncstorage/ReactDatabaseSupplier.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
11	The App uses the encryption mode CBC with PKCS5/PKCS7 padding. This configuration is vulnerable to padding oracle attacks.	high	CWE: CWE-649: Reliance on Obfuscation or Encryption of Security-Relevant Inputs without Integrity Checking OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-3	com/nimbusds/jose/crypto/impl/AESCBC.java com/nimbusds/jose/jca/JCASupport.java
12	App creates temp file. Sensitive information should never be written into a temp file.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/reactnativecommunity/webview/RNCWebViewModuleImpl.java io/sentry/react/RNSentryModuleImpl.java
13	This App may have root detection capabilities.	secure	OWASP MASVS: MSTG-RESILIENCE-1	io/sentry/android/core/DeviceInfoUtil.java io/sentry/android/core/internal/util/RootChecker.java
14	This App copies data to clipboard. Sensitive data should not be copied to clipboard as other applications can access it.	info	OWASP MASVS: MSTG-STORAGE-10	com/reactnativecommunity/clipboard/ClipboardModule.java expo/modules/devmenu/modules/DevMenuInternalModule.java
15	This app listens to Clipboard changes. Some malware also listen to Clipboard changes.	info	OWASP MASVS: MSTG-PLATFORM-4	com/reactnativecommunity/clipboard/ClipboardModule.java
16	This App may request root (Super User) privileges.	warning	CWE: CWE-250: Execution with Unnecessary Privileges OWASP MASVS: MSTG-RESILIENCE-1	io/sentry/android/core/internal/util/RootChecker.java
17	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	com/amazon/a/a/o/b/a.java

NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
00096	Connect to a URL and set request method	command network	com/airbnb/lottie/network/DefaultLottieNetworkFetcher.java com/appsflyer/internal/AFa1rSDK.java com/appsflyer/internal/AFc1gSDK.java com/appsflyer/internal/AFc1jSDK.java com/mixpanel/android/util/HttpService.java com/revenuecat/purchases/common/HTTPClient.java io/sentry/transport/HttpConnection.java
00030	Connect to the remote server through the given URL	network	com/airbnb/lottie/network/DefaultLottieNetworkFetcher.java com/appsflyer/internal/AFa1rSDK.java com/bumptech/glide/load/data/HttpUrlFetcher.java io/sentry/transport/HttpConnection.java
00109	Connect to a URL and get the response code	network command	com/appsflyer/internal/AFa1rSDK.java com/appsflyer/internal/AFc1gSDK.java com/appsflyer/internal/AFc1jSDK.java com/appsflyer/internal/AFd1fSDK.java com/bumptech/glide/load/data/HttpUrlFetcher.java com/mixpanel/android/util/HttpService.java com/nimbusds/jose/util/DefaultResourceRetriever.java com/revenuecat/purchases/common/HTTPClient.java io/sentry/transport/HttpConnection.java

RULE ID	BEHAVIOUR	LABEL	FILES
00078	Get the network operator name	collection telephony	com/appsflyer/internal/AFa1hSDK.java com/learnium/RNDeviceInfo/RNDeviceModule.java com/mixpanel/android/mpmetrics/SystemInformation.java com/onesignal/common/DeviceUtils.java

RULE ID	BEHAVIOUR	LABEL	FILES
00013	Read file and put it into a stream	file	com/airbnb/android/react/lottie/LottieAnimationViewPropertyManager.java com/airbnb/lottie/network/NetworkCache.java com/airbnb/lottie/network/NetworkFetcher.java com/alpha0010/fs/FileAccessModule.java com/amazon/c/a/a/c.java com/bumptech/glide/disklrucache/DiskLruCache.java com/bumptech/glide/load/ImageHeaderParserUtils.java com/bumptech/glide/load/model/FileLoader.java com/bumptech/glide/load/resource/bitmap/ImageReader.java com/github/penfeizhou/animation/apng/decode/APNGParser.java com/github/penfeizhou/animation/avif/decode/AVIFParser.java com/github/penfeizhou/animation/gif/decode/GifParser.java com/github/penfeizhou/animation/io/FileReader.java com/github/penfeizhou/animation/webp/decode/WebPParser.java com/microsoft/codepush/react/CodePushUpdateUtils.java com/microsoft/codepush/react/FileUtils.java com/nimbusds/jose/util/IOUtils.java com/reactnativecommunity/asyncstorage/AsyncStorageExpoMigration.java com/revenuecat/purchases/common/FileHelper.java expo/modules/asset/AssetModule.java expo/modules/core/logging/PersistentFileLog.java expo/modules/filesystem/FileSystemModule.java expo/modules/updates/UpdatesUtils.java io/sentry/EnvelopeSender.java io/sentry/OutboxSender.java io/sentry/PreviousSessionFinalizer.java io/sentry/android/core/SentryPerformanceProvider.java io/sentry/android/replay/ReplayCache.java io/sentry/cache/CacheStrategy.java io/sentry/cache/CacheUtils.java io/sentry/cache/EnvelopeCache.java io/sentry/config/FilesystemPropertiesLoader.java io/sentry/instrumentation/file/FileInputStreamInitData.java io/sentry/instrumentation/file/SentryFileInputStream.java io/sentry/util/FileUtils.java javax/el/FactoryFinder.java

			okio/Okio__JvmOkioKt.java
RULE ID	BEHAVIOUR	LABEL	FILES
			com/amazon/a/a/i/a.java com/amazon/a/a/i/g.java
00063	Implicit intent(view a web page, make a phone call, etc.)	control	com/amazon/device/iap/internal/a/a.java com/appsflyer/internal/AFa1tSDK.java com/appsflyer/internal/AFb1xSDK.java com/appsflyer/internal/AFd1jSDK.java com/onesignal/common/AndroidUtils.java com/onesignal/location/internal/permissions/NavigateToAndroidSettingsForLocation.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/OPPOHomeBader.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SonyHomeBadger.java com/proyecto26/inappbrowser/RNInAppBrowser.java expo/modules/adapters/react/permissions/PermissionsService.java expo/modules/devmenu/devtools/DevMenuDevToolsDelegate.java expo/modules/filesystem/FileSystemModule.java

RULE ID	BEHAVIOUR	LABEL	FILES
00036	Get resource file from res/raw directory	reflection	com/amazon/a/a/i/g.java com/appsflyer/internal/AFb1qSDK.java com/appsflyer/internal/AFb1xSDK.java com/appsflyer/internal/AFf1lSDK.java com/appsflyer/internal/AFf1nSDK.java com/brentvatne/common/api/Source.java com/onesignal/common/AndroidUtils.java com/onesignal/location/internal/permissions/NavigateToAndroidSettingsForLocation.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/EverythingMeHomeBadger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/HuaweiHomeBadger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/NovaHomeBadger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/OPPOHomeBader.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SonyHomeBadger.java com/onesignal/notifications/internal/common/NotificationHelper.java com/proyecto26/inappbrowser/RNInAppBrowser.java expo/modules/adapters/react/permissions/PermissionsService.java expo/modules/devmenu/devtools/DevMenuDevToolsDelegate.java expo/modules/filesystem/FileSystemModule.java expo/modules/image/records/SourceMap.java expo/modules/updates/UpdatesConfiguration.java

RULE ID	BEHAVIOUR	LABEL	FILES
00022	Open a file from given absolute path of the file	file	com/airbnb/lottie/LottieCompositionFactory.java com/airbnb/lottie/network/NetworkCache.java com/airbnb/lottie/network/NetworkFetcher.java com/alpha0010/fs/FileAccessModule$cpExternal$1.java com/alpha0010/fs/FileAccessModuledf1.java com/alpha0010/fs/FileAccessModule$unzip$1.java com/alpha0010/fs/FileAccessModule.java com/amazon/a/a/b/b.java com/appsflyer/internal/AFb1xSDK.java com/microsoft/codepush/react/CodePush.java com/microsoft/codepush/react/CodePushUpdateUtils.java com/microsoft/codepush/react/CodePushUtils.java com/microsoft/codepush/react/FileUtils.java com/op/sqlite/OPSQLiteModule.java expo/modules/filesystem/FileSystemModule.java expo/modules/image/ExpoImageModule.java expo/modules/updates/UpdatesUtils.java io/sentry/DirectoryProcessor.java io/sentry/EnvelopeSender.java io/sentry/OutboxSender.java io/sentry/PreviousSessionFinalizer.java io/sentry/SentryOptions.java io/sentry/android/core/AndroidOptionsInitializer.java io/sentry/android/core/DeviceInfoUtil.java io/sentry/android/core/cache/AndroidEnvelopeCache.java io/sentry/android/replay/ReplayCache.java io/sentry/android/replay/capture/BufferCaptureStrategy.java io/sentry/cache/CacheStrategy.java io/sentry/cache/CacheUtils.java io/sentry/cache/EnvelopeCache.java io/sentry/instrumentation/file/FileIOSpanManager.java io/sentry/react/RNSentryModuleImpl.java

RULE ID	BEHAVIOUR	LABEL	FILES
00012	Read data and put it into a buffer stream	file	com/amazon/c/a/a/c.java com/microsoft/codepush/react/FileUtils.java io/sentry/EnvelopeSender.java io/sentry/OutboxSender.java io/sentry/cache/CacheStrategy.java io/sentry/cache/EnvelopeCache.java io/sentry/config/FilesystemPropertiesLoader.java io/sentry/util/FileUtils.java
00091	Retrieve data from broadcast	collection	com/amazon/device/drm/a/d/c.java com/amazon/device/iap/internal/c/e.java com/amazon/device/simplesignin/a/c/b.java com/appsflyer/internal/AFa1tSDK.java com/appsflyer/internal/AFb1xSDK.java com/onesignal/core/activities/PermissionsActivity.java com/onesignal/notifications/internal/common/NotificationFormatHelper.java com/onesignal/notifications/receivers/FCMBroadcastReceiver.java
00089	Connect to a URL and receive input stream from the server	command network	com/appsflyer/internal/AFc1gSDK.java com/appsflyer/internal/AFc1jSDK.java com/bumptech/glide/load/data/HttpUrlFetcher.java com/microsoft/codepush/react/CodePushUpdateManager.java com/mixpanel/android/util/HttpService.java com/nimbusds/jose/util/DefaultResourceRetriever.java com/revenuecat/purchases/common/HTTPClient.java io/sentry/transport/HttpConnection.java
00192	Get messages in the SMS inbox	sms	com/appsflyer/internal/AFa1aSDK.java

RULE ID	BEHAVIOUR	LABEL	FILES
00011	Query data from URI (SMS, CALLLOGS)	sms calllog collection	com/appsflyer/internal/AFa1aSDK.java com/appsflyer/internal/AFf1iSDK.java com/appsflyer/internal/AFf1nSDK.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	com/appsflyer/internal/AFa1aSDK.java com/appsflyer/internal/AFf1iSDK.java com/appsflyer/internal/AFf1nSDK.java com/bumptech/glide/load/data/mediastore/ThumbFetcher.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java
00009	Put data in cursor to JSON object	file	com/mixpanel/android/mpmetrics/MPDbAdapter.java com/reactnativecommunity/asyncstorage/AsyncLocalStorageUtil.java
00189	Get the content of a SMS message	sms	com/appsflyer/internal/AFf1iSDK.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java
00188	Get the address of a SMS message	sms	com/appsflyer/internal/AFf1iSDK.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java
00191	Get messages in the SMS inbox	sms	com/appsflyer/internal/AFf1iSDK.java com/appsflyer/internal/AFf1lSDK.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java
00200	Query data from the contact list	collection contact	com/appsflyer/internal/AFf1iSDK.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java

RULE ID	BEHAVIOUR	LABEL	FILES
00201	Query data from the call log	collection calllog	com/appsflyer/internal/AFf1iSDK.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java
00004	Get filename and put it to JSON object	file collection	com/airbnb/lottie/LottieCompositionFactory.java com/appsflyer/internal/AFb1xSDK.java com/mixpanel/android/mpmetrics/MPDbAdapter.java
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	com/onesignal/common/AndroidUtils.java com/onesignal/location/internal/permissions/NavigateToAndroidSettingsForLocation.java com/proyecto26/inappbrowser/RNInAppBrowser.java expo/modules/adapters/react/permissions/PermissionsService.java
00028	Read file from assets directory	file	com/caverock/androidsvg/SimpleAssetResolver.java com/op/sqlite/OPSQLiteModule.java
00094	Connect to a URL and read data from it	command network	com/mixpanel/android/util/HttpService.java
00108	Read the input stream from given URL	network command	com/mixpanel/android/util/HttpService.java
00005	Get absolute path of file and put it to JSON object	file	com/airbnb/lottie/LottieCompositionFactory.java com/appsflyer/internal/AFb1xSDK.java com/microsoft/codepush/react/CodePushUtils.java expo/modules/updates/UpdatesUtils.java
00100	Check the network capabilities	collection network	com/appsflyer/internal/AFb1xSDK.java
00125	Check if the given file path exist	file	com/appsflyer/internal/AFb1xSDK.java expo/modules/filesystem/FileSystemModule.java

RULE ID	BEHAVIOUR	LABEL	FILES
00062	Query WiFi information and WiFi Mac Address	wifi collection	com/learnium/RNDeviceInfo/RNDeviceModule.java
00130	Get the current WIFI information	wifi collection	com/learnium/RNDeviceInfo/RNDeviceModule.java
00134	Get the current WiFi IP address	wifi collection	com/learnium/RNDeviceInfo/RNDeviceModule.java
00082	Get the current WiFi MAC address	collection wifi	com/learnium/RNDeviceInfo/RNDeviceModule.java
00072	Write HTTP input stream into a file	command network file	com/microsoft/codepush/react/CodePushUpdateManager.java
00014	Read file into a stream and put it into a JSON object	file	expo/modules/updates/UpdatesUtils.java
00024	Write file after Base64 decoding	reflection file	com/airbnb/lottie/LottieCompositionFactory.java expo/modules/filesystem/FileSystemModule.java
00121	Create a directory	file command	expo/modules/filesystem/FileSystemModule.java
00104	Check if the given path is directory	file	expo/modules/filesystem/FileSystemModule.java
00187	Query a URI and check the result	collection sms calllog calendar	com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungHomeBadger.java
00043	Calculate WiFi signal strength	collection wifi	com/reactnativecommunity/netinfo/ConnectivityReceiver.java

ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	8/25	android.permission.INTERNET, android.permission.READ_EXTERNAL_STORAGE, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.ACCESS_NETWORK_STATE, android.permission.ACCESS_WIFI_STATE, android.permission.WAKE_LOCK, android.permission.VIBRATE, android.permission.RECEIVE_BOOT_COMPLETED
Other Common Permissions	4/44	com.google.android.gms.permission.AD_ID, com.google.android.c2dm.permission.RECEIVE, android.permission.FOREGROUND_SERVICE, com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE

Malware Permissions:
Top permissions that are widely abused by known malware.
Other Common Permissions:
Permissions that are commonly abused by known malware.

! OFAC SANCTIONED COUNTRIES

This app may communicate with the following OFAC sanctioned list of countries.

DOMAIN	COUNTRY/REGION

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
www.risktabsprev10pxrise25pxblueding300ballfordearnwildbox.fairlackverspairjunetechifpickevil	ok	No Geolocation information available.
www.wencodeuricomponent	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
www.css	ok	No Geolocation information available.
www.interpretation	ok	No Geolocation information available.
codepush.appcenter.ms	ok	No Geolocation information available.
sinapps.s	ok	No Geolocation information available.
xml.org	ok	**IP:** 104.239.142.8 **Country:** United States of America **Region:** Texas **City:** Windcrest **Latitude:** 29.499678 **Longitude:** -98.399246 **View:** Google Map
play.google.com	ok	**IP:** 142.250.74.142 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
www.world	ok	**IP:** 99.83.155.228 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.606209 **Longitude:** -122.332069 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
www.w3.org	ok	**IP:** 104.18.23.19 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
github.com	ok	**IP:** 140.82.112.3 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
sdlsdk.s	ok	No Geolocation information available.
www.years	ok	No Geolocation information available.
.css	ok	No Geolocation information available.
sconversions.s	ok	No Geolocation information available.
simpression.s	ok	No Geolocation information available.
smonitorsdk.s	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
10.0.2.2	ok	**IP:** 10.0.2.2 **Country:** - **Region:** - **City:** - **Latitude:** 0.000000 **Longitude:** 0.000000 **View:** Google Map
sgcdsdk.s	ok	No Geolocation information available.
sattr.s	ok	No Geolocation information available.
docs.swmansion.com	ok	**IP:** 104.21.27.136 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
ssdk-services.s	ok	No Geolocation information available.
sadrevenue.s	ok	No Geolocation information available.
www.hortcut	ok	No Geolocation information available.
www.a	ok	No Geolocation information available.
sars.s	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
rev.cat	ok	**IP:** 52.72.49.79 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
api.mixpanel.com	ok	**IP:** 130.211.34.183 **Country:** United States of America **Region:** Missouri **City:** Kansas City **Latitude:** 39.099731 **Longitude:** -94.578568 **View:** Google Map
www.manifestations	ok	No Geolocation information available.
sregister.s	ok	No Geolocation information available.
scdn-ssettings.s	ok	No Geolocation information available.
www.googleorganizationautocompleterequirementsconservative	ok	No Geolocation information available.
www.in	ok	No Geolocation information available.
www.language	ok	No Geolocation information available.
scdn-stestsettings.s	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
api-diagnostics.revenuecat.com	ok	**IP:** 34.196.55.80 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
www.recent	ok	No Geolocation information available.
api.onesignal.com	ok	**IP:** 104.16.160.145 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
api-paywalls.revenuecat.com	ok	**IP:** 13.223.22.191 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
sstats.s	ok	No Geolocation information available.
sonelink.s	ok	No Geolocation information available.
slaunches.s	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
sapp.s	ok	No Geolocation information available.
www.icon	ok	No Geolocation information available.
www.c	ok	No Geolocation information available.
errors.rev.cat	ok	**IP:** 67.199.248.13 **Country:** United States of America **Region:** New York **City:** New York City **Latitude:** 40.739288 **Longitude:** -73.984955 **View:** Google Map
docs.revenuecat.com	ok	**IP:** 18.238.109.64 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
sviap.s	ok	No Geolocation information available.
www.style	ok	**IP:** 99.83.155.228 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.606209 **Longitude:** -122.332069 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
.jpg	ok	No Geolocation information available.
xmlpull.org	ok	**IP:** 185.199.108.153 **Country:** United States of America **Region:** Pennsylvania **City:** California **Latitude:** 40.065632 **Longitude:** -79.891708 **View:** Google Map
www.amazon.com	ok	**IP:** 18.238.90.46 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
svalidate.s	ok	No Geolocation information available.
api.revenuecat.com	ok	**IP:** 35.171.209.0 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
www.text-decoration	ok	No Geolocation information available.

TRACKERS

TRACKER	CATEGORIES	URL
AppsFlyer	Analytics	https://reports.exodus-privacy.eu.org/trackers/12
Facebook Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/66
Facebook Login	Identification	https://reports.exodus-privacy.eu.org/trackers/67
Facebook Share		https://reports.exodus-privacy.eu.org/trackers/70
Google AdMob	Advertisement	https://reports.exodus-privacy.eu.org/trackers/312
MixPanel	Analytics	https://reports.exodus-privacy.eu.org/trackers/118
OneSignal		https://reports.exodus-privacy.eu.org/trackers/193
Sentry	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/447

🔑 HARDCODED SECRETS

POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
FFFFFFFFFFFFFFFFC90FDAA22168C234C4C6628B80DC1CD129024E088A67CC74020BBEA63B139B22514A08798E3404DDEF9519B3CD3A431B302B0A6DF25F14374FE1356D6D51C245E485B576625E7EC6F44C42E9A637ED6B0BFF5CB6F406B7EDEE386BFB5A899FA5AE9F24117C4B1FE649286651ECE45B3DC2007CB8A163BF0598DA48361C55D39A69163FA8FD24CF5F83655D23DCA3AD961C62F356208552BB9ED529077096966D670C354E4ABC9804F1746C08CA18217C32905E462E36CE3BE39E772C180E86039B2783A2EC07A28FB5C55DF06F4C52C9DE2BCBF6955817183995497CEA956AE515D2261898FA051015728E5A8AAAC42DAD33170D04507A33A85521ABDF1CBA64ECFB850458DBEF0A8AEA71575D060C7DB3970F85A6E1E4C7ABF5AE8CDB0933D71E8C94E04A25619DCEE3D2261AD2EE6BF12FFA06D98A0864D87602733EC86A64521F2B18177B200CBBE117577A615D6C770988C0BAD946E208E24FA074E5AB3143DB5BFCE0FD108E4B82D120A92108011A723C12A787E6D788719A10BDBA5B2699C327186AF4E23C1A946834B6150BDA2583E9CA2AD44CE8DBBBC2DB04DE8EF92E8EFC141FBECAA6287C59474E6BC05D99B2964FA090C3A2233BA186515BE7ED1F612970CEE2D7AFB81BDD762170481CD0069127D5B05AA993B4EA988D8FDDC186FFB7DC90A6C08F4DF435C93402849236C3FAB4D27C7026C1D4DCB2602646DEC9751E763DBA37BDF8FF9406AD9E530EE5DB382F413001AEB06A53ED9027D831179727B0865A8918DA3EDBEBCF9B14ED44CE6CBACED4BB1BDB7F1447E6CC254B332051512BD7AF426FB8F401378CD2BF5983CA01C64B92ECF032EA15D1721D03F482D7CE6E74FEF6D55E702F46980C82B5A84031900B1C9E59E7C97FBEC7E8F323A97A7E36CC88BE0F1D45B7FF585AC54BD407B22B4154AACC8F6D7EBF48E1D814CC5ED20F8037E0A79715EEF29BE32806A1D58BB7C5DA76F550AA3D8A1FBFF0EB19CCB1A313D55CDA56C9EC2EF29632387FE8D76E3C0468043E8F663F4860EE12BF2D5B0B7474D6E694F91E6DBE115974A3926F12FEE5E438777CB6A932DF8CD8BEC4D073B931BA3BC832B68D9DD300741FA7BF8AFC47ED2576F6936BA424663AAB639C5AE4F5683423B4742BF1C978238F16CBE39D652DE3FDB8BEFC848AD922222E04A4037C0713EB57A81A23F0C73473FC646CEA306B4BCBC8862F8385DDFA9D4B7FA2C087E879683303ED5BDD3A062B3CF5B3A278A66D2A13F83F44F82DDF310EE074AB6A364597E899A0255DC164F31CC50846851DF9AB48195DED7EA1B1D510BD7EE74D73FAF36BC31ECFA268359046F4EB879F924009438B481C6CD7889A002ED5EE382BC9190DA6FC026E479558E4475677E9AA9E3050E2765694DFC81F56E880B96E7160C980DD98EDD3DFFFFFFFFFFFFFFFFF
8CB91E82A3386D280F5D6F7E50E641DF152F7109ED5456B412B1DA197FB71123ACD3A729901D1A71874700133107EC53
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040356DCD8F2F95031AD652D23951BB366A80648F06D867940A5366D9E265DE9EB240F

PLAYSTORE INFORMATION

Title: Pathway – Medical Knowledge

Score: 4.38 **Installs:** 100,000+ **Price:** 0 **Android Version Support:** **Category:** Medical **Play Store URL:** com.pathwaymedical.pathway

Developer Details: Pathway Medical Inc, 6943811198650706962, None, https://pathway.md, contact@pathway.md,

Release Date: Sep 12, 2022 **Privacy Policy:** Privacy link

Description:

Pathway is the #1 AI-powered medical knowledge platform, trusted by over 1M clinicians in 10,000+ leading care centers. Built specifically for healthcare professionals, it delivers fast, evidence-based answers to clinical questions, all backed by physician-vetted knowledge and referenced to the latest peer-reviewed literature. WHY PATHWAY? • Find fast, evidence-based answers with AI. • Covers 1M+ clinical topics, 40+ specialties, and 1,000+ diseases. • Earn CME credits with every question asked and article reviewed. • Access drug information, dosing, studies, and guidelines instantly. EVIDENCE-BASED, AI-POWERED ANSWERS Pathway's AI provides concise, evidence-based answers designed to save time and support confident clinical decisions. • Quickly navigate the latest evidence and stay up-to-date. • Save time with AI-assisted reasoning tailored to patient care. • Evaluate evidence quality at a glance. AS SEEN IN • MobiHealthNews: "A well-designed decision support technology adapted to the realities of 21st-century medicine." • Physicians Practice: "Provides easier access to important clinical information." WHAT USERS SAY "Pathway replaced UpToDate for me. It's faster, easier, and more intuitive." – Dr. M. Taylor, Cardiologist "None of the clinical reference tools available are as simple, efficient and to-the-point. This is the only medical app I use on a daily basis." - Jane R., General Practitioner "The AI understands complex questions and gives answers I can trust. It's like ChatGPT for medicine, but better." – Dr. S. Green, Emergency Medicine "I earn CME credits while solving real clinical challenges. It's seamless and so valuable." – Dr. L. Chen, Family Medicine STAY CONNECTED • Website: https://pathway.md • Email: contact@pathway.md • Facebook: https://www.facebook.com/pathwaymedical/ • Twitter: https://www.twitter.com/pathwaymedical/ • Instagram: https://www.instagram.com/pathwaymedical/ LEARN MORE • Frequently Asked Questions: http://www.pathway.md/faq/ • Terms of Use: https://www.pathway.md/terms-of-use/ • Privacy Policy: https://www.pathway.md/privacy-policy/ *Pathway is intended for physicians, medical residents, medical students, registered nurses, and other licensed health professionals only.*

SCAN LOGS

Timestamp	Event	Error
2025-09-01 07:05:26	Generating Hashes	OK
2025-09-01 07:05:26	Extracting APK	OK
2025-09-01 07:05:26	Unzipping	OK
2025-09-01 07:05:26	Parsing APK with androguard	OK

2025-09-01 07:05:26	Extracting APK features using aapt/aapt2	OK
2025-09-01 07:05:27	Getting Hardcoded Certificates/Keystores	OK
2025-09-01 07:05:28	Parsing AndroidManifest.xml	OK
2025-09-01 07:05:28	Extracting Manifest Data	OK
2025-09-01 07:05:28	Manifest Analysis Started	OK
2025-09-01 07:05:29	Performing Static Analysis on: Pathway (com.pathwaymedical.pathway)	OK
2025-09-01 07:05:30	Fetching Details from Play Store: com.pathwaymedical.pathway	OK
2025-09-01 07:05:32	Checking for Malware Permissions	OK
2025-09-01 07:05:32	Fetching icon path	OK
2025-09-01 07:05:32	Library Binary Analysis Started	OK
2025-09-01 07:05:32	Reading Code Signing Certificate	OK

2025-09-01 07:05:33	Running APKiD 2.1.5	OK
2025-09-01 07:05:40	Detecting Trackers	OK
2025-09-01 07:05:45	Decompiling APK to Java with JADX	OK
2025-09-01 07:06:17	Decompiling with JADX failed, attempting on all DEX files	OK
2025-09-01 07:06:17	Decompiling classes6.dex with JADX	OK
2025-09-01 07:06:18	Decompiling classes2.dex with JADX	OK
2025-09-01 07:06:24	Decompiling classes4.dex with JADX	OK
2025-09-01 07:06:31	Decompiling classes.dex with JADX	OK
2025-09-01 07:06:39	Decompiling classes3.dex with JADX	OK
2025-09-01 07:06:47	Decompiling classes5.dex with JADX	OK
2025-09-01 07:06:57	Decompiling classes6.dex with JADX	OK

2025-09-01 07:06:58	Decompiling classes2.dex with JADX	OK
2025-09-01 07:07:03	Decompiling classes4.dex with JADX	OK
2025-09-01 07:07:11	Decompiling classes.dex with JADX	OK
2025-09-01 07:07:19	Decompiling classes3.dex with JADX	OK
2025-09-01 07:07:28	Decompiling classes5.dex with JADX	OK
2025-09-01 07:07:38	Converting DEX to Smali	OK
2025-09-01 07:07:38	Code Analysis Started on - java_source	OK
2025-09-01 07:07:43	Android SBOM Analysis Completed	OK
2025-09-01 07:07:51	Android SAST Completed	OK
2025-09-01 07:07:51	Android API Analysis Started	OK
2025-09-01 07:07:58	Android API Analysis Completed	OK

2025-09-01 07:07:58	Android Permission Mapping Started	OK
2025-09-01 07:08:04	Android Permission Mapping Completed	OK
2025-09-01 07:08:05	Android Behaviour Analysis Started	OK
2025-09-01 07:08:13	Android Behaviour Analysis Completed	OK
2025-09-01 07:08:13	Extracting Emails and URLs from Source Code	OK
2025-09-01 07:08:17	Email and URL Extraction Completed	OK
2025-09-01 07:08:17	Extracting String data from APK	OK
2025-09-01 07:08:17	Extracting String data from Code	OK
2025-09-01 07:08:17	Extracting String values and entropies from Code	OK
2025-09-01 07:08:22	Performing Malware check on extracted domains	OK
2025-09-01 07:08:28	Saving to Database	OK

Report Generated by - MobSF v4.4.0

Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.