

#### ANDROID STATIC ANALYSIS REPORT



**†** Trash Panda (1.0.165)

File Name:	com.slytrunk.trashpanda_420.apk
Package Name:	com.slytrunk.trashpanda
Scan Date:	Sept. 1, 2025, 9:08 a.m.
App Security Score:	49/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	7/432

#### FINDINGS SEVERITY

兼 HIGH	▲ MEDIUM	i INFO	✓ SECURE	<b>◎</b> HOTSPOT
3	30	4	2	2

#### FILE INFORMATION

**File Name:** com.slytrunk.trashpanda\_420.apk

**Size:** 69.01MB

MD5: 499a4d093e9869ab7b8596ae246de240

**SHA1**: 0839df6cc829e51a6390217dbe1c29cdef5bbf2b

**SHA256**: 00b771d414e186b78f88c3a0bbadb455be66348a8879421285430fc873a81899

#### **i** APP INFORMATION

App Name: Trash Panda

Package Name: com.slytrunk.trashpanda

Main Activity: com.slytrunk.trashpanda.MainActivity

Target SDK: 34 Min SDK: 23 Max SDK:

**Android Version Name:** 1.0.165

#### **EE** APP COMPONENTS

Activities: 23 Services: 18 Receivers: 18 Providers: 11

Exported Activities: 8
Exported Services: 2
Exported Receivers: 7
Exported Providers: 0



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: 2021-01-14 19:01:51+00:00 Valid To: 2051-01-14 19:01:51+00:00

Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android

Serial Number: 0xd7f893d2e07abea3e114d8b726d9d7cc80fee6eb

Hash Algorithm: sha256

md5: 7efd230514940717605f21b7b7c3d58a

sha1: a6912bbaa240b5f55da1cbcf9b1c63fb6cd9102f

sha256: 21c6344b0c2694879595157a3cefefd716c57c213d3949ece2bb82b6a8d64f36

sha512: 766cf58c1184ceec2fe15655738111dc15482eb501b369d849ab427446058778a8e7d8eb63a89343b2a358456102d894d68fd1285964caf06195ae0852fca5dc

PublicKey Algorithm: rsa

Bit Size: 4096

Fingerprint: 66551b0a0968e53715051b04be21e23f4529ca0790b983b52232eaabb781259c

Found 1 unique certificates

### **⋮** APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.CAMERA	dangerous	take pictures and videos	Allows application to take pictures and videos with the camera. This allows the application to collect images that the camera is seeing at any time.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.MODIFY_AUDIO_SETTINGS	normal	change your audio settings	Allows application to modify global audio settings, such as volume and routing.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
android.permission.READ_MEDIA_IMAGES	dangerous	allows reading image files from external storage.	Allows an application to read image files from external storage.
android.permission.RECORD_AUDIO	dangerous	record audio	Allows application to access the audio record path.
android.permission.SYSTEM_ALERT_WINDOW	dangerous	display system-level alerts	Allows an application to show system- alert windows. Malicious applications can take over the entire screen of the phone.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.

PERMISSION	STATUS	INFO	DESCRIPTION
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android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
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.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.READ_MEDIA_VIDEO	dangerous	allows reading video files from external storage.	Allows an application to read video files from external storage.
com.slytrunk.trashpanda.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
com.google.android.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.

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.
com.anddoes.launcher.permission.UPDATE_COUNT	normal	show notification count on app	Show notification count or badge on application launch icon for apex.

PERMISSION	STATUS	INFO	DESCRIPTION
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
me.everything.badger.permission.BADGE_COUNT_WRITE	unknown	Unknown permission	Unknown permission from android reference

PERMISSION	STATUS	INFO	DESCRIPTION
com.android.vending.BILLING	normal	application has in-app purchases	Allows an application to make in-app purchases from Google Play.
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.ACCESS_ADSERVICES_ATTRIBUTION	normal	allow applications to access advertising service attribution	This enables the app to retrieve information related to advertising attribution, which can be used for targeted advertising purposes. App can gather data about how users interact with ads, such as clicks or impressions, to measure the effectiveness of advertising campaigns.
android.permission.ACCESS_ADSERVICES_AD_ID	normal	allow app to access the device's advertising ID.	This ID is a unique, user-resettable identifier provided by Google's advertising services, allowing apps to track user behavior for advertising purposes while maintaining user privacy.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.
com.google.android.providers.gsf.permission.READ_GSERVICES	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.

PERMISSION	STATUS	INFO	DESCRIPTION
com.slytrunk.trashpanda.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

# **M** APKID ANALYSIS

FILE	DETAILS		
499a4d093e9869ab7b8596ae246de240.apk	FINDINGS		DETAILS
	Anti-VM Code		possible VM check
	FINDINGS	DETA	ILS
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.BRAND check Build.DEVICE check Build.PRODUCT check Build.HARDWARE check possible VM check	
	Compiler	r8 with	out marker (suspicious)

FILE	DETAILS		
	FINDINGS	DETAILS	
classes2.dex	Compiler	r8 without marker (suspicious)	
	FINDINGS	DETAILS	
classes3.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check Build.BOARD check Build.TAGS check network operator name check possible VM check	
	Anti Debug Code	Debug.isDebuggerConnected() check	
	Compiler	r8 without marker (suspicious)	

FILE	DETAILS		
	FINDINGS	DETAILS	
classes4.dex	Anti-VM Code	Build.MODEL check Build.MANUFACTURER check network operator name check	
	Compiler	r8 without marker (suspicious)	
	FINDINGS	DETAILS	
classes5.dex	Anti-VM Code	Build.FINGERPRINT check Build.MANUFACTURER check Build.HARDWARE check Build.BOARD check Build.TAGS check	
	Compiler	r8 without marker (suspicious)	

FILE	DETAILS				
	FINDINGS	DETAILS			
classes6.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check possible Build.SERIAL check possible VM check			
	Compiler	r8 without marker (suspicious)			
classes7.dex	FINDINGS	DETAILS			
	Compiler	unknown (please file detection issue!)			

# **BROWSABLE ACTIVITIES**

ACTIVITY	INTENT
com.slytrunk.trashpanda.MainActivity	Schemes: trash://, com.slytrunk.trashpanda://, exp+trashpanda://, https://, Hosts: www.trashpandaapp.com,
com.facebook.CustomTabActivity	Schemes: @string/fb_login_protocol_scheme://, fbconnect://, Hosts: cct.com.slytrunk.trashpanda,

ACTIVITY	INTENT
com.auth0.react.RedirectActivity	Schemes: com.slytrunk.trashpanda://, Hosts: trashpandaapp.us.auth0.com, Path Prefixes: /android/com.slytrunk.trashpanda/callback,
com.google.firebase.auth.internal.GenericIdpActivity	Schemes: genericidp://, Hosts: firebase.auth, Paths: /,
com.google.firebase.auth.internal.RecaptchaActivity	Schemes: recaptcha://, Hosts: firebase.auth, Paths: /,

### **△** NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION
NO	SCOPE	SEVERIT	DESCRIPTION

#### **CERTIFICATE ANALYSIS**

#### HIGH: 0 | WARNING: 1 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate

TITLE	SEVERITY	DESCRIPTION
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.

# **Q** MANIFEST ANALYSIS

HIGH: 1 | WARNING: 19 | 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	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.
4	Activity (com.auth0.react.RedirectActivity) 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
5	Activity (com.canhub.cropper.CropImageActivity) 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.
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.

NO	ISSUE	SEVERITY	DESCRIPTION
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	Activity (com.google.firebase.auth.internal.GenericIdpActivity) 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.
14	Activity (com.google.firebase.auth.internal.RecaptchaActivity) 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.
15	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
16	Service (com.google.android.gms.auth.api.signin.RevocationBoundService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.auth.api.signin.permission.REVOCATION_NOTIFICATION [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.
17	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.

NO	ISSUE	SEVERITY	DESCRIPTION
18	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.
19	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.
20	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

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/auth0/android/authentication/Authentication Exception.java com/auth0/android/authentication/storage/Crypto Util.java com/auth0/android/authentication/storage/Secure CredentialsManager.java com/auth0/android/provider/AlgorithmHelper.jav a com/auth0/android/provider/AuthProvider.java com/auth0/android/provider/AuthProvider.java com/auth0/android/provider/CallbackHelper.java com/auth0/android/provider/CustomTabsControll er.java com/auth0/android/provider/LogoutManager.java com/auth0/android/provider/DauthManager.java com/auth0/android/provider/PermissionHandler.java com/auth0/android/provider/PermissionHandler.java com/auth0/android/provider/WebAuthProvider.ja va com/auth0/android/request/internal/BaseAuthenti cationRequest.java com/auth0/android/request/internal/JwksDeseriali zer.java com/bumptech/glide/Glide.java com/bumptech/glide/Glide.java com/bumptech/glide/gifdecoder/GifHeaderParser.java com/bumptech/glide/gifdecoder/StandardGifDecoder.java com/bumptech/glide/load/data/AssetPathFetcher.java com/bumptech/glide/load/data/HttpUrlFetcher.java com/bumptech/glide/load/data/HttpUrlFetcher.yava com

NO	ISSUE	SEVERITY	STANDARDS	bFetcher.java  Fdht Sumptech/glide/load/data/mediastore/Thum bnailStreamOpener.java
				com/bumptech/glide/load/engine/DecodeJob.java com/bumptech/glide/load/engine/DecodePath.jav
				a
				com/bumptech/glide/load/engine/Engine.java
				com/bumptech/glide/load/engine/GlideException.j
				ava
				com/bumptech/glide/load/engine/SourceGenerato
				r.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/DiskLruC
				acheWrapper.java
				com/bumptech/glide/load/engine/cache/MemoryS
				izeCalculator.java
				com/bumptech/glide/load/engine/executor/GlideE
				xecutor.java
				com/bumptech/glide/load/engine/executor/Runti
				meCompat.java
				com/bumptech/glide/load/engine/prefill/BitmapPr
				eFillRunner.java
				com/bumptech/glide/load/model/ByteBufferEnco
				der.java
				com/bumptech/glide/load/model/ByteBufferFileLo
				ader.java
				com/bumptech/glide/load/model/FileLoader.java
				com/bumptech/glide/load/model/ResourceLoader.
				java
				com/bumptech/glide/load/model/ResourceUriLoa
				der.java
				com/bumptech/glide/load/model/StreamEncoder.j
				ava
				com/bumptech/glide/load/resource/DefaultOnHea
				derDecodedListener.java
				com/bumptech/glide/load/resource/bitmap/Bitma
				pEncoder.java

NO	ISSUE	SEVERITY	STANDARDS	com/bumptech/glide/load/resource/bitmap/Bitma
				com/bumptech/glide/load/resource/bitmap/Defau
				ltlmageHeaderParser.java
				com/bumptech/glide/load/resource/bitmap/Down
				sampler.java
				com/bumptech/glide/load/resource/bitmap/Draw
				ableToBitmapConverter.java
				com/bumptech/glide/load/resource/bitmap/Hard wareConfigState.java
				com/bumptech/glide/load/resource/bitmap/Transf
				ormationUtils.java
				com/bumptech/glide/load/resource/bitmap/Video Decoder.java
				com/bumptech/glide/load/resource/gif/ByteBuffer GifDecoder.java
				com/bumptech/glide/load/resource/gif/GifDrawab leEncoder.java
				com/bumptech/glide/load/resource/gif/StreamGif Decoder.java
				com/bumptech/glide/manager/DefaultConnectivit
				yMonitorFactory.java
				com/bumptech/glide/manager/RequestTracker.jav
				com/bumptech/glide/manager/SingletonConnectiv ityReceiver.java
				com/bumptech/glide/module/ManifestParser.java
				com/bumptech/glide/request/SingleRequest.java
				com/bumptech/glide/request/target/CustomViewT arget.java
				com/bumptech/glide/request/target/ViewTarget.ja
				Va
				com/bumptech/glide/signature/ApplicationVersion Signature.java
				com/bumptech/glide/util/ContentLengthInputStrea m.java
				com/bumptech/glide/util/pool/FactoryPools.java
				com/canhub/cropper/BitmapUtils.java com/canhub/cropper/CropImageActivity.java
				com/canhub/cropper/CropOverlayView.java

NO	ISSUE	SEVERITY	STANDARDS	com/canhub/cropper/utils/GetUriForFileKt.java
				com/dooboolab/rniap/PromiseUtlisKt.java
				com/dooboolab/rniap/RNIapModule\$getPurchase
				HistoryByType\$1.java
				com/dooboolab/rniap/RNIapModule.java
				com/horcrux/svg/Brush.java
				com/horcrux/svg/ClipPathView.java
				com/horcrux/svg/lmageView.java
				com/horcrux/svg/LinearGradientView.java
				com/horcrux/svg/PatternView.java
				com/horcrux/svg/RadialGradientView.java
				com/horcrux/svg/UseView.java
				com/horcrux/svg/VirtualView.java
				com/onesignal/debug/internal/logging/Logging.jav a
				com/onesignal/notifications/internal/badges/impl/
				shortcutbadger/ShortcutBadger.java
				com/onesignal/rnonesignalandroid/RNOneSignal.j
				ava
				com/qonversion/android/sdk/Qonversion.java
				com/qonversion/android/sdk/QonversionConfig.ja
				com/qonversion/android/sdk/internal/logger/Exce
				ptionHandler.java
				com/qonversion/android/sdk/internal/logger/QEx
				ceptionManager.java
				com/reactnative/ivpusic/imagepicker/Compressio
				n.java
				com/reactnative/ivpusic/imagepicker/PickerModul
				e.java
				com/reactnative/ivpusic/imagepicker/ResultCollect or.java
				com/reactnativecommunity/asyncstorage/AsyncLo
				calStorageUtil.java
				com/reactnativecommunity/asyncstorage/AsyncSt
			CIME CIME FOR Local Control	orageExpoMigration.java
1	The App logs information. Sensitive	: 6-	CWE: CWE-532: Insertion of Sensitive	com/reactnativecommunity/asyncstorage/AsyncSt
1	information should never be logged.	info	Information into Log File OWASP MASVS: MSTG-STORAGE-3	orageModule.java
			2	com/reactnativecommunity/asyncstorage/ReactDa

NO	ISSUE	SEVERITY	STANDARDS	tabaseSupplier.java ស្រីក្រីស្និactnativecommunity/webview/RNCWebVie
				w.java
				com/reactnativecommunity/webview/RNCWebVie
				wClient.java
				com/reactnativecommunity/webview/RNCWebVie
				wManagerImpl.java
				com/reactnativecommunity/webview/RNCWebVie
				wModuleImpl.java
				com/swmansion/gesturehandler/react/RNGesture
				HandlerModule.java
				com/swmansion/gesturehandler/react/RNGesture
				HandlerRootHelper.java
				com/swmansion/gesturehandler/react/RNGesture
				HandlerRootView.java
				com/swmansion/reanimated/NativeMethodsHelpe
				r.java
				com/swmansion/reanimated/ReanimatedModule.j
				ava
				com/swmansion/reanimated/ReanimatedUIManag
				erFactory.java
				com/swmansion/reanimated/layoutReanimation/A
				nimationsManager.java
				com/swmansion/reanimated/layoutReanimation/R
				eanimatedNativeHierarchyManager.java
				com/swmansion/reanimated/layoutReanimation/S
				haredTransitionManager.java
				com/swmansion/reanimated/nativeProxy/NativeP
				roxyCommon.java
				com/swmansion/reanimated/sensor/ReanimatedS
				ensorContainer.java
				com/swmansion/rnscreens/ScreenStackHeaderCo
				nfigViewManager.java
				com/swmansion/rnscreens/ScreensModule.java
				com/th3rdwave/safeareacontext/SafeAreaView.jav
				a
				com/yalantis/ucrop/UCropActivity.java
				com/yalantis/ucrop/task/BitmapCropTask.java
				com/yalantis/ucrop/task/BitmapLoadTask.java
				com/yalantis/ucrop/task/bitmapLoad/task.java
				com/yalantis/ucrop/util/bitinaptoauotils.java

NO	ISSUE	SEVERITY	STANDARDS	com/yalantis/ucrop/util/EglUtils.java
				com/yalantis/ucrop/util/ImageHeaderParser.java
				com/yalantis/ucrop/view/TransformImageView.jav
				a
				expo/modules/ExpoModulesPackage.java
				expo/modules/adapters/react/services/UIManager
				ModuleWrapper.java
				expo/modules/apploader/AppLoaderProvider.java
				expo/modules/av/player/PlayerData.java
				expo/modules/av/player/SimpleExoPlayerData.jav
				a
				expo/modules/av/video/MediaController.java
				expo/modules/camera/CameraViewModule.java
				expo/modules/camera/ExpoCameraView.java
				expo/modules/camera/analyzers/BarcodeAnalyzer
				.java
				expo/modules/camera/analyzers/MLKitBarCodeSc
				anner\$scan\$2.java
				expo/modules/constants/ConstantsService.java
				expo/modules/core/logging/OSLogHandler.java
				expo/modules/devlauncher/helpers/DevLauncherl
				nstallationIDHelper.java
				expo/modules/devlauncher/launcher/configurator
				s/DevLauncherExpoActivityConfigurator.java
				expo/modules/devmenu/devtools/DevMenuDevT
				oolsDelegate\$openJSInspector\$1\$1.java
				expo/modules/devmenu/extensions/DevMenuExt
				ension.java
				expo/modules/devmenu/react/DevMenuPackager
				CommandHandlersSwapper\$swapCurrentComma
				ndHandlers\$1.java
				expo/modules/devmenu/react/DevMenuPackager
				CommandHandlersSwapper.java
				expo/modules/devmenu/react/DevMenuShakeDet
				ectorListenerSwapper.java
				expo/modules/devmenu/websockets/DevMenuCo
				mmandHandlersProvider.java
				expo/modules/filesystem/FileSystemModule\$dow
				nloadResumableTask\$2.java

NO	ISSUE	SEVERITY	STANDARDS	expo/modules/filesystem/FileSystemModule.java
				expo/modules/mailchimpmodule/MailchimpModu le.java expo/modules/splashscreen/singletons/SplashScre en.java expo/modules/updates/DisabledUpdatesControlle r.java expo/modules/updates/EnabledUpdatesController.java expo/modules/updates/UpdatesDevLauncherCont roller.java expo/modules/updates/UpdatesModule\$definition \$1\$7\$1.java expo/modules/updates/UpdatesUtils.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/launcher/NoDatabaseLaun cher.java expo/modules/updates/launcher/NoDatabaseLaun cher.java expo/modules/updates/loader/FileDownloader.java expo/modules/updates/loader/LoaderFiles.java expo/modules/updates/loader/LoaderTask\$launch RemoteUpdateInBackground\$1\$1.java expo/modules/updates/loader/LoaderTask.java expo/modules/updates/loader/LoaderTask.java expo/modules/updates/loader/RemoteLoader.java expo/modules/updates/manifest/EmbeddedManif estUtils.java expo/modules/updates/manifest/EmbeddedUpdat e.java expo/modules/updates/manifest/ExpoUpdatesUpdate.java

NO	ISSUE	SEVERITY	STANDARDS	a.java  Experimental and the second of the s
				Data.java
				expo/modules/updates/procedures/RelaunchProc edure\$run\$1.java
				expo/modules/updates/selectionpolicy/SelectionP
				olicies.java
				io/branch/referral/BranchJsonConfig.java
				io/branch/referral/BranchLogger.java
				io/branch/referral/validators/IntegrationValidator.j ava
				io/branch/rnbranch/RNBranchModule.java
				io/grpc/android/AndroidChannelBuilder.java
				io/grpc/okhttp/internal/Platform.java
				io/invertase/firebase/app/ReactNativeFirebaseApp.
				java
				io/invertase/firebase/app/ReactNativeFirebaseApp
				Module.java
				io/invertase/firebase/auth/ReactNativeFirebaseAut
				hModule.java
				io/invertase/firebase/common/RCTConvertFirebas
				e.java
				io/invertase/firebase/common/ReactNativeFirebas
				eEventEmitter.java
				io/invertase/firebase/common/SharedUtils.java
				io/invertase/firebase/crashlytics/ReactNativeFireba
				seCrashlyticsInitProvider.java
				io/invertase/firebase/crashlytics/ReactNativeFireba
				seCrashlyticsModule.java
				io/invertase/firebase/firestore/ReactNativeFirebase
				FirestoreSerialize.java
				io/invertase/firebase/perf/ScreenTrace.java
				io/invertase/firebase/utils/ReactNativeFirebaseUtil com/auth0/android/authentication/Authentication sModule.java APIClient.java io/qonversion/sandwich/QonversionSandwich.jav com/auth0/android/authentication/Authentication
				io/qonversion/sandwich/QonversionSandwich.jav com/auth0/android/authentication/Authentication
				Exception.java timber/log/Timber.java com/auth0/android/authentication/ParameterBuil
				der.java
				com/auth0/android/management/ManagementEx
				ception.java

NO	ISSUE	SEVERITY	STANDARDS	com/auth0/android/management/UsersAPIClient.j
				com/auth0/android/util/Auth0UserAgent.java
				com/auth0/react/CredentialsParser.java
				com/bumptech/glide/load/Option.java
				com/bumptech/glide/load/engine/DataCacheKey.j
				ava
				com/bumptech/glide/load/engine/EngineResource.
				java
				com/bumptech/glide/load/engine/ResourceCacheK
				ey.java
				com/mailchimp/sdk/api/ApiAuthInterceptor.java
				com/mailchimp/sdk/api/model/mergefields/Merg
				eField.java
				com/onesignal/core/internal/http/impl/OptionalH
				eaders.java
				com/onesignal/inAppMessages/internal/display/i
				mpl/WebViewManager.java
				com/onesignal/inAppMessages/internal/prompt/ln
				AppMessagePromptTypes.java
				com/onesignal/inAppMessages/internal/prompt/i
				mpl/lnAppMessagePrompt.java
				com/onesignal/notifications/bridges/OneSignalHm
				sEventBridge.java
				com/onesignal/notifications/internal/Notification.j
				ava
				com/onesignal/notifications/internal/bundle/impl/
				NotificationBundleProcessor.java
				com/onesignal/notifications/internal/common/Not
				ificationConstants.java
				com/onesignal/notifications/internal/common/Not
				ificationHelper.java
				com/onesignal/notifications/receivers/FCMBroadc
				astReceiver.java
				com/qonversion/android/sdk/automations/interna
				l/macros/ScreenProcessor.java
				com/qonversion/android/sdk/automations/mvp/S
				creenFragment.java
				com/qonversion/android/sdk/dto/properties/QUs
				erProperty.java

NO	Files may contain hardcoded	SEVERITY	<b>S</b> ₩፟ <b>Ā:ᠺ</b> ႞ፇ፟፝፞ቚ፞ <b>ቖ</b> ነĝ <b>:</b> Cleartext Storage of Sensitive Information	com/qonversion/android/sdk/internal/Constants.j <b>EV</b> LES
2	sensitive information like username	<u>s, warning</u>	OWASP Top 10: M9: Reverse Engineering	com/qonversion/android/sdk/internal/api/ApiHea
	passwords, keys etc.		OWASP MASVS: MSTG-STORAGE-14	dersProvider.java
			OWN ST WING VS. WIST OF STORY OF THE	com/qonversion/android/sdk/internal/dto/SendPr
				opertiesResult.java
				com/qonversion/android/sdk/internal/dto/config/
				PrimaryConfig.java
				com/qonversion/android/sdk/internal/dto/request /CrashRequest.java
				com/qonversion/android/sdk/internal/dto/request /data/UserPropertyRequestData.java
				com/qonversion/android/sdk/internal/storage/Lau
				nchResultCacheWrapperKt.java
				com/qonversion/android/sdk/internal/storage/Pur
				chasesCache.java
				com/qonversion/android/sdk/internal/storage/Tok
				enStorage.java
				com/reactnative/ivpusic/imagepicker/PickerModul
				e.java
				expo/modules/adapters/react/NativeModulesProx
				y.java
				expo/modules/av/AVManager.java
				expo/modules/camera/legacy/tasks/ResolveTaken
				PictureAsyncTaskKt.java
				expo/modules/camera/tasks/ResolveTakenPicture Kt.java
				expo/modules/easclient/EASClientIDKt.java
				expo/modules/imagepicker/ImagePickerModuleKt. java
				expo/modules/interfaces/permissions/Permission
				sResponse.java
				expo/modules/updates/UpdatesConfiguration.java expo/modules/updates/UpdatesModule.java
				expo/modules/updates/codesigning/CodeSigningA
				lgorithmKt.java
				expo/modules/updates/codesigning/ExpoProjectIn
				formation.java
				expo/modules/updates/db/BuildData.java
				expo/modules/updates/loader/SigningInfo.java

NO	ISSUE	SEVERITY	STANDARDS	expo/modules/updates/manifest/ManifestMetadat  FJLES  io/branch/referral/Branch.java
				io/branch/referral/BranchPreinstall.java io/branch/referral/PrefHelper.java io/branch/referral/ServerRequest.java io/branch/referral/ServerRequestQueue.java io/branch/referral/UniversalResourceAnalyser.java io/branch/referral/validators/DeepLinkRoutingVali dator.java io/grpc/internal/DnsNameResolver.java io/grpc/internal/PickFirstLoadBalancerProvider.jav a io/grpc/internal/TransportFrameUtil.java io/invertase/firebase/common/TaskExecutorServic
3	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	exigo/modules/updates/codesigning/CertificateCha in.java expo/modules/updates/codesigning/CertificateCha inKt.java io/grpc/okhttp/OkHttpClientTransport.java io/grpc/okhttp/OkHttpServerTransport.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/onesignal/common/AndroidUtils.java com/qonversion/android/sdk/internal/Incremental DelayCalculator.java com/qonversion/android/sdk/internal/di/module/ ManagersModule.java expo/modules/updates/UpdatesUtils.java io/grpc/internal/DnsNameResolver.java io/grpc/internal/ExponentialBackoffPolicy.java io/grpc/internal/PickFirstLeafLoadBalancer.java io/grpc/internal/PickFirstLoadBalancer.java io/grpc/internal/RetriableStream.java io/grpc/okhttp/OkHttpClientTransport.java io/grpc/util/OutlierDetectionLoadBalancer.java io/grpc/util/RoundRobinLoadBalancer.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
5	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/i mpl/WebViewManager.java
6	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/i mpl/WebViewManager.java
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/canhub/cropper/BitmapUtils.java com/canhub/cropper/CropImage.java com/reactnative/ivpusic/imagepicker/Compressio n.java com/reactnative/ivpusic/imagepicker/PickerModul e.java com/reactnativecommunity/webview/RNCWebVie wModuleImpl.java com/yalantis/ucrop/util/FileUtils.java io/invertase/firebase/utils/ReactNativeFirebaseUtil sModule.java
8	This App may have root detection capabilities.	secure	OWASP MASVS: MSTG-RESILIENCE-1	expo/modules/device/DeviceModule.java
9	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/onesignal/core/internal/database/impl/OSDat abase.java com/onesignal/session/internal/outcomes/impl/O utcomeTableProvider.java com/reactnativecommunity/asyncstorage/AsyncLo calStorageUtil.java com/reactnativecommunity/asyncstorage/ReactDa tabaseSupplier.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
10	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/canhub/cropper/BitmapUtils.java com/canhub/cropper/CropImageActivity.java com/reactnative/ivpusic/imagepicker/PickerModul e.java com/reactnativecommunity/webview/RNCWebVie wModuleImpl.java
11	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	com/mailchimp/sdk/api/RetrofitBuilder.java com/qonversion/android/sdk/internal/di/module/ NetworkModule.java io/grpc/okhttp/OkHttpChannelBuilder.java io/grpc/okhttp/OkHttpServerBuilder.java io/grpc/util/AdvancedTlsX509TrustManager.java
12	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	expo/modules/asset/AssetModule.java expo/modules/filesystem/FileSystemModule.java
13	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/ClipboardM odule.java expo/modules/devmenu/modules/DevMenuIntern alModule.java io/branch/referral/ShareLinkManager.java
14	App can write to App Directory. Sensitive Information should be encrypted.	info	CWE: CWE-276: Incorrect Default Permissions OWASP MASVS: MSTG-STORAGE-14	com/auth0/android/authentication/storage/Shared PreferencesStorage.java
15	This app listens to Clipboard changes. Some malware also listen to Clipboard changes.	info	OWASP MASVS: MSTG-PLATFORM-4	com/reactnativecommunity/clipboard/ClipboardM odule.java

## ■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

# **BEHAVIOUR ANALYSIS**

RULE ID	BEHAVIOUR	LABEL	FILES
00013	Read file and put it into a stream	file	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/canhub/cropper/utils/GetUriForFileKt.java com/reactnative/ivpusic/imagepicker/PickerModule.java com/reactnativecommunity/asyncstorage/AsyncStorageExpoMigration.java com/yalantis/ucrop/util/FileUtils.java expo/modules/asset/AssetModule.java expo/modules/core/logging/PersistentFileLog.java expo/modules/filesystem/FileSystemModule.java expo/modules/updates/UpdatesUtils.java io/grpc/TlsChannelCredentials.java io/grpc/TlsServerCredentials.java io/grpc/util/AdvancedTlsX509KeyManager.java javax/el/FactoryFinder.java okio/Okio_JvmOkioKt.java

RULE ID	BEHAVIOUR	LABEL	FILES
00022	Open a file from given absolute path of the file	file	com/canhub/cropper/utils/GetUriForFileKt.java com/reactnative/ivpusic/imagepicker/Compression.java com/reactnative/ivpusic/imagepicker/PickerModule.java com/reactnative/ivpusic/imagepicker/RealPathUtil.java expo/modules/filesystem/FileSystemModule.java expo/modules/imagepicker/exporters/RawImageExporter.java expo/modules/updates/UpdatesUtils.java io/invertase/firebase/utils/ReactNativeFirebaseUtilsModule.java
00189	Get the content of a SMS message	sms	com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java com/qonversion/android/sdk/internal/FacebookAttribution.java expo/modules/imagepicker/MediaHandler.java
00188	Get the address of a SMS message	sms	com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java com/qonversion/android/sdk/internal/FacebookAttribution.java expo/modules/imagepicker/MediaHandler.java
00011	Query data from URI (SMS, CALLLOGS)	sms calllog collection	com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java com/qonversion/android/sdk/internal/FacebookAttribution.java
00191	Get messages in the SMS inbox	sms	com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java com/qonversion/android/sdk/internal/FacebookAttribution.java io/branch/coroutines/InstallReferrersKt.java
00200	Query data from the contact list	collection contact	com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java com/qonversion/android/sdk/internal/FacebookAttribution.java expo/modules/imagepicker/MediaHandler.java

RULE ID	BEHAVIOUR	LABEL	FILES
00201	Query data from the call log	collection calllog	com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java com/qonversion/android/sdk/internal/FacebookAttribution.java expo/modules/imagepicker/MediaHandler.java
00063	Implicit intent(view a web page, make a phone call, etc.)	control	com/auth0/android/provider/BrowserPicker.java com/auth0/android/provider/WebAuthProvider.java com/auth0/react/A0Auth0Module.java com/levelasquez/androidopensettings/AndroidOpenSettings.java com/onesignal/common/AndroidUtils.java com/onesignal/location/internal/permissions/NavigateToAndroidSettingsForLocatio n.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/OPPOHom eBader.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SonyHome Badger.java com/qonversion/android/sdk/automations/mvp/ScreenFragment.java com/reactnative/ivpusic/imagepicker/PickerModule.java expo/modules/adapters/react/permissions/PermissionsService.java expo/modules/devmenu/devtools/DevMenuDevToolsDelegate.java expo/modules/filesystem/FileSystemModule.java expo/modules/imagepicker/contracts/CameraContract.java expo/modules/imagepicker/contracts/CropImageContract.java io/branch/referral/Branch.java io/branch/referral/Validators/DeepLinkRoutingValidator.java io/branch/rnbranch/RNBranchModule.java

RULE ID	BEHAVIOUR	LABEL	FILES
00036	Get resource file from res/raw directory	reflection	com/auth0/android/provider/WebAuthProvider.java com/canhub/cropper/utils/GetUriForFileKt.java com/onesignal/common/AndroidUtils.java com/onesignal/location/internal/permissions/NavigateToAndroidSettingsForLocatio n.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/Everything MeHomeBadger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/HuaweiHo meBadger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/NovaHome Badger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/OPPOHom eBader.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SonyHome Badger.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SonyHome Badger.java com/onesignal/notifications/internal/common/NotificationHelper.java com/onesignal/notifications/internal/common/NotificationHelper.java expo/modules/adapters/react/permissions/PermissionsService.java expo/modules/adapters/react/permissions/PermissionsService.java expo/modules/av/player/MediaPlayerData.java expo/modules/devmenu/devtools/DevMenuDevToolsDelegate.java expo/modules/filesystem/FileSystemModule.java expo/modules/filesystem/FileSystemModule.java io/branch/referral/Branch.java io/branch/referral/Branch.java
00014	Read file into a stream and put it into a JSON object	file	expo/modules/updates/UpdatesUtils.java
00005	Get absolute path of file and put it to JSON object	file	expo/modules/updates/UpdatesUtils.java

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RULE ID	BEHAVIOUR	LABEL	FILES	
00001	Initialize bitmap object and compress data (e.g. JPEG) into bitmap object	camera	expo/modules/camera/legacy/tasks/ResolveTakenPictureAsyncTask.java expo/modules/camera/tasks/ResolveTakenPicture.java	
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	com/levelasquez/androidopensettings/AndroidOpenSettings.java com/onesignal/common/AndroidUtils.java com/onesignal/location/internal/permissions/NavigateToAndroidSettingsForLoc n.java expo/modules/adapters/react/permissions/PermissionsService.java io/branch/referral/Branch.java io/branch/rnbranch/RNBranchModule.java	
08000	Save recorded audio/video to a file	record file	expo/modules/av/AVManager.java	
00101	Initialize recorder	record	expo/modules/av/AVManager.java	
00121	Create a directory	file command	expo/modules/av/AVManager.java expo/modules/filesystem/FileSystemModule.java	
00199	Stop recording and release recording resources	record	expo/modules/av/AVManager.java	
00198	Initialize the recorder and start recording	record	expo/modules/av/AVManager.java	
00136	Stop recording	record command	expo/modules/av/AVManager.java	
00194	Set the audio source (MIC) and recorded file format	record	expo/modules/av/AVManager.java	
00090	Set recroded audio/video file format	record	expo/modules/av/AVManager.java	

RULE ID	BEHAVIOUR	LABEL	FILES	
00197	Set the audio encoder and initialize the recorder	record	expo/modules/av/AVManager.java	
00102	Set the phone speaker on	command	expo/modules/av/AVManager.java	
00138	Set the audio source (MIC)	record	expo/modules/av/AVManager.java	
00196	Set the recorded file format and output path	record file	expo/modules/av/AVManager.java	
00133	Start recording	record command	expo/modules/av/AVManager.java	
00104	Check if the given path is directory	file	expo/modules/av/AVManager.java expo/modules/filesystem/FileSystemModule.java	
00041	Save recorded audio/video to file	record	expo/modules/av/AVManager.java	
00163	Create new Socket and connecting to it	socket	io/grpc/android/UdsSocket.java io/grpc/android/UdsSocketFactory.java io/grpc/okhttp/internal/Platform.java	
00004	Get filename and put it to JSON object	file collection	com/qonversion/android/sdk/internal/logger/ExceptionHandler.java	
00162	Create InetSocketAddress object and connecting to it	socket	io/grpc/android/UdsSocketFactory.java io/grpc/okhttp/internal/Platform.java	
00091	Retrieve data from broadcast	collection	com/onesignal/core/activities/PermissionsActivity.java com/onesignal/notifications/internal/common/NotificationFormatHelper.java com/onesignal/notifications/receivers/FCMBroadcastReceiver.java io/branch/referral/Branch.java	

RULE ID	BEHAVIOUR	LABEL	FILES	
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	com/bumptech/glide/load/data/mediastore/ThumbFetcher.java com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java expo/modules/imagepicker/MediaHandler.java	
00078	Get the network operator name	collection telephony	com/onesignal/common/DeviceUtils.java com/qonversion/android/sdk/internal/EnvironmentProvider.java io/branch/referral/SystemObserver.java	
00089	Connect to a URL and receive input stream from the server	command network	com/bumptech/glide/load/data/HttpUrlFetcher.java	
00030	Connect to the remote server through the given URL	network	com/bumptech/glide/load/data/HttpUrlFetcher.java	
00109	Connect to a URL and get the response code	network command	com/bumptech/glide/load/data/HttpUrlFetcher.java	
00092	Send broadcast	command	io/branch/rnbranch/RNBranchModule.java	
00024	Write file after Base64 decoding	reflection file	expo/modules/filesystem/FileSystemModule.java	
00125	Check if the given file path exist	file	expo/modules/filesystem/FileSystemModule.java	
00192	Get messages in the SMS inbox	sms	com/yalantis/ucrop/util/FileUtils.java	
00009	Put data in cursor to JSON object	file	com/reactnativecommunity/asyncstorage/AsyncLocalStorageUtil.java	
00043	Calculate WiFi signal strength	collection wifi	com/reactnativecommunity/netinfo/ConnectivityReceiver.java	

RULE ID	E BEHAVIOUR LABEL		FILES		
00003	Put the compressed bitmap data into JSON object camera		io/branch/referral/network/BranchRemoteInterfaceUrlConnection.java		
00187	Query a URI and check the result collection sms calllog calendar		com/onesignal/notifications/internal/badges/impl/shortcutbadger/impl/SamsungH omeBadger.java		

## FIREBASE DATABASES ANALYSIS

TITLE	SEVERITY	DESCRIPTION
Firebase Remote Config enabled	warning	The Firebase Remote Config at https://firebaseremoteconfig.googleapis.com/v1/projects/719158949865/namespaces/firebase:fetch? key=AlzaSyD8PKF21uH9_5Tn-v6QZVSQ5YJklbCbtxs is enabled. Ensure that the configurations are not sensitive. This is indicated by the response: {'entries': {'force_min_version_android': '1.0.206', 'force_min_version_ios': '1.0.206', 'premium_content_access': 'false', 'referrals_enabled': 'true'}, 'state': 'UPDATE', 'templateVersion': '28'}

### **SECOND SECOND PERMISSIONS**

TYPE	MATCHES	PERMISSIONS
Malware Permissions	11/25	android.permission.CAMERA, android.permission.INTERNET, android.permission.READ_EXTERNAL_STORAGE, android.permission.RECORD_AUDIO, android.permission.SYSTEM_ALERT_WINDOW, android.permission.VIBRATE, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.ACCESS_NETWORK_STATE, android.permission.ACCESS_WIFI_STATE, android.permission.WAKE_LOCK, android.permission.RECEIVE_BOOT_COMPLETED

TYPE	MATCHES	PERMISSIONS
Other Common Permissions	5/44	android.permission.MODIFY_AUDIO_SETTINGS, com.google.android.c2dm.permission.RECEIVE, com.google.android.gms.permission.AD_ID, com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE, android.permission.FOREGROUND_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
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## **Q DOMAIN MALWARE CHECK**

DOMAIN	STATUS	GEOLOCATION
help.branch.io	ok	IP: 104.18.20.218 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map

DOMAIN	STATUS	GEOLOCATION
www.risktabsprev10pxrise25pxblueding300ballfordearnwildbox.fairlackverspairjunetechifpickevil	ok	No Geolocation information available.
www.wencodeuricomponent	ok	No Geolocation information available.
www.css	ok	No Geolocation information available.
www.interpretation	ok	No Geolocation information available.
www.world	ok	IP: 75.2.38.108 Country: United States of America Region: Washington City: Seattle Latitude: 47.606209 Longitude: -122.332069 View: Google Map
www.years	ok	No Geolocation information available.
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

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
.css	ok	No Geolocation information available.
auth0.com	ok	IP: 172.64.150.238  Country: United States of America Region: Texas City: Dallas Latitude: 32.783058 Longitude: -96.806671 View: Google Map
documentation.qonversion.io	ok	IP: 172.66.145.141 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
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

DOMAIN	STATUS	GEOLOCATION
www.hortcut	ok	No Geolocation information available.
www.a	ok	No Geolocation information available.
api.qonversion.io	ok	IP: 172.66.145.141 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.manifestations	ok	No Geolocation information available.
branch.app.link	ok	IP: 18.238.109.28 Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
www.example.com	ok	IP: 23.220.73.58 Country: Colombia Region: Antioquia City: Medellin Latitude: 6.251840 Longitude: -75.563591 View: Google Map
www.googleorganizationautocompleterequirementsconservative	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
api3-eu.branch.io	ok	IP: 18.155.173.118  Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
www.in	ok	No Geolocation information available.
manage.auth0.com	ok	IP: 104.18.39.72 Country: United States of America Region: Texas City: Dallas Latitude: 32.783058 Longitude: -96.806671 View: Google Map
api.branch.io	ok	IP: 18.238.109.42 Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
bnc.lt	ok	IP: 18.238.109.120 Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map

DOMAIN	STATUS	GEOLOCATION
www.language	ok	No Geolocation information available.
www.recent	ok	No Geolocation information available.
cdn.branch.io	ok	IP: 13.224.53.120 Country: United States of America Region: Arizona City: Phoenix Latitude: 33.448380 Longitude: -112.074043 View: Google Map
api.onesignal.com	ok	IP: 104.17.111.223 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
sdk-logs.qonversion.io	ok	IP: 172.66.145.141 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.icon	ok	No Geolocation information available.
www.c	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
www.style	ok	IP: 75.2.38.108 Country: United States of America Region: Washington City: Seattle Latitude: 47.606209 Longitude: -122.332069 View: Google Map
.jpg	ok	No Geolocation information available.
api2.branch.io	ok	IP: 18.238.96.89 Country: United States of America Region: Washington City: Seattle Latitude: 47.627499 Longitude: -122.346199 View: Google Map
s.api.mailchimp.com	ok	No Geolocation information available.
www.text-decoration	ok	No Geolocation information available.

# \*\* TRACKERS

TRACKER	CATEGORIES	URL
Branch	Analytics	https://reports.exodus-privacy.eu.org/trackers/167
Facebook Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/66

TRACKER	CATEGORIES	URL
Facebook Login	Identification	https://reports.exodus-privacy.eu.org/trackers/67
Facebook Share		https://reports.exodus-privacy.eu.org/trackers/70
Google CrashLytics	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/27
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49
OneSignal		https://reports.exodus-privacy.eu.org/trackers/193

## HARDCODED SECRETS

POSSIBLE SECRETS
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"com.google.firebase.crashlytics.mapping_file_id" : "0000000000000000000000000000000000
"facebook_client_token" : "8f7569461930f264af28601b60ca1b6b"
"google_api_key" : "AlzaSyD8PKF21uH9_5Tn-v6QZVSQ5YJklbCbtxs"
"google_crash_reporting_api_key" : "AlzaSyD8PKF21uH9_5Tn-v6QZVSQ5YJklbCbtxs"

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POSSIBLE SECRETS
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8D91E471E0989CDA27DF505A453F2B7635294F2DDF23E3B122ACC99C9E9F1E14

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60dcd2104c4cbc0be6eeefc2bdd610739ec34e317f9b33046c9e4788

2472E2D0197C49363F1FE7F5B6DB075D52B6947D135D8CA445805D39BC345626089687742B6329E70680231988

#### POSSIBLE SECRETS

E95E4A5F737059DC60DFC7AD95B3D8139515620C

617fab6832576cbbfed50d99f0249c3fee58b94ba0038c7ae84c8c832f2c

0100FAF51354E0E39E4892DF6E319C72C8161603FA45AA7B998A167B8F1E629521

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040356DCD8F2F95031AD652D23951BB366A80648F06D867940A5366D9E265DE9EB240F

# > PLAYSTORE INFORMATION

**Title:** Trash Panda Grocery Scanner

Score: 3.73 Installs: 50,000+ Price: 0 Android Version Support: Category: Health & Fitness Play Store URL: com.slytrunk.trashpanda

Developer Details: Slytrunk, 8809101280837063766, None, http://trashpandaapp.com, trashpanda@slytrunk.com,

Release Date: Apr 29, 2021 Privacy Policy: Privacy link

#### Description:

"LOVE this app! It makes grocery shopping so fast and easy! I love the accuracy and all the great recommendations!" - Kacey Trash Panda is a food scanner app that makes understanding ingredient labels easy. Find your good while grocery shopping just by scanning a barcode to see if foods have potentially harmful ingredients. Are you shopping gluten-free, dairy-free, low sugar, organic, Keto or Whole30? Let Trash Panda decode ingredient labels for you. HOW IT WORKS Trash Panda helps you identify potentially harmful ingredients so you can find good stuff for you and your fam. Scan 5 products a month for free, or start a free trial to our Membership for unlimited scanning and additional features. It's super easy, just: - Scan any food barcode to see the list of potentially harmful, questionable, added sugar or bioengineered ingredients. - Tap on each ingredient to understand its health impact, backed by scientific studies. - No barcode? No problem. Just snap a pic of the ingredients list and Trash Panda can gather insights, instantly. - Search by product to see top-rated products based on keywords. - Find clean-ingredient alternatives from high-quality brands. - Create custom shopping lists for you and your family Trash Panda is free to use for scanning up to 5 products per month for checking ingredient labels. If you're interested in supporting Trash Panda's mission to increase access to healthy food, we offer a yearly subscription called the Trash Panda Membership. Upgrade to get additional features: - Get unlimited scanning of products (5 scans / month included for free) - Flag additional ingredients for dietary restrictions like gluten, dairy, soy and egg - Access unlimited #trashpandapproved shopping lists to find healthier grocery options INGREDIENTS WE FLAG Currently, we flag over hundreds of ingredients in our database as potentially harmful or questionable. All of these flagged ingredients are backed by scientific studies and include all names for added sugar, natural flavors, artificial flavors, food dyes

## **⋮**≡ SCAN LOGS

Timestamp	Event	Error
2025-09-01 09:08:19	Generating Hashes	OK

2025-09-01 09:08:20	Extracting APK	ОК
2025-09-01 09:08:20	Unzipping	ОК
2025-09-01 09:08:20	Parsing APK with androguard	ОК
2025-09-01 09:08:20	Extracting APK features using aapt/aapt2	ОК
2025-09-01 09:08:20	Getting Hardcoded Certificates/Keystores	ОК
2025-09-01 09:08:22	Parsing AndroidManifest.xml	ОК
2025-09-01 09:08:22	Extracting Manifest Data	ОК
2025-09-01 09:08:22	Manifest Analysis Started	ОК
2025-09-01 09:08:23	Performing Static Analysis on: Trash Panda (com.slytrunk.trashpanda)	ОК
2025-09-01 09:08:24	Fetching Details from Play Store: com.slytrunk.trashpanda	ОК

2025-09-01 09:08:26	Checking for Malware Permissions	ОК
2025-09-01 09:08:26	Fetching icon path	OK
2025-09-01 09:08:26	Library Binary Analysis Started	ОК
2025-09-01 09:08:26	Reading Code Signing Certificate	ОК
2025-09-01 09:08:27	Running APKiD 2.1.5	ОК
2025-09-01 09:08:35	Detecting Trackers	ОК
2025-09-01 09:08:42	Decompiling APK to Java with JADX	ОК
2025-09-01 09:09:14	Decompiling with JADX failed, attempting on all DEX files	ОК
2025-09-01 09:09:14	Decompiling classes6.dex with JADX	ОК
2025-09-01 09:09:23	Decompiling classes2.dex with JADX	ОК
2025-09-01 09:09:28	Decompiling classes4.dex with JADX	ОК

2025-09-01 09:09:39	Decompiling classes.dex with JADX	ОК
2025-09-01 09:09:47	Decompiling classes3.dex with JADX	ОК
2025-09-01 09:09:55	Decompiling classes5.dex with JADX	ОК
2025-09-01 09:10:03	Decompiling classes7.dex with JADX	ОК
2025-09-01 09:10:04	Decompiling classes6.dex with JADX	ОК
2025-09-01 09:10:13	Decompiling classes2.dex with JADX	ОК
2025-09-01 09:10:19	Decompiling classes4.dex with JADX	ок
2025-09-01 09:10:30	Decompiling classes.dex with JADX	ОК
2025-09-01 09:10:38	Decompiling classes3.dex with JADX	ОК
2025-09-01 09:10:46	Decompiling classes5.dex with JADX	ОК
2025-09-01 09:10:54	Decompiling classes7.dex with JADX	ОК

2025-09-01 09:10:55	Converting DEX to Smali	ОК
2025-09-01 09:10:55	Code Analysis Started on - java_source	ОК
2025-09-01 09:11:03	Android SBOM Analysis Completed	ОК
2025-09-01 09:11:07	Android SAST Completed	OK
2025-09-01 09:11:07	Android API Analysis Started	ОК
2025-09-01 09:11:11	Android API Analysis Completed	OK
2025-09-01 09:11:11	Android Permission Mapping Started	OK
2025-09-01 09:11:15	Android Permission Mapping Completed	ОК
2025-09-01 09:11:16	Android Behaviour Analysis Started	OK
2025-09-01 09:11:21	Android Behaviour Analysis Completed	OK
2025-09-01 09:11:21	Extracting Emails and URLs from Source Code	ОК

2025-09-01 09:11:25	Email and URL Extraction Completed	ОК
2025-09-01 09:11:25	Extracting String data from APK	ОК
2025-09-01 09:11:25	Extracting String data from Code	ОК
2025-09-01 09:11:25	Extracting String values and entropies from Code	ОК
2025-09-01 09:11:33	Performing Malware check on extracted domains	ОК
2025-09-01 09:11:38	Saving to Database	ОК

### 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.

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