

ANDROID STATIC ANALYSIS REPORT



UMR (2.13.0)

File Name:	com.bob.umr_51.apk
Package Name:	com.bob.umr
Scan Date:	Aug. 29, 2025, 8:27 p.m.
App Security Score:	57/100 (MEDIUM RISK)
Grade:	
Trackers Detection:	3/432

FINDINGS SEVERITY

≟ HIGH	▲ MEDIUM	i INFO	✓ SECURE	◎ HOTSPOT
1	16	2	3	1

FILE INFORMATION

File Name: com.bob.umr_51.apk

Size: 15.18MB

MD5: 6501d6e8634b665e737cb2a0cbfc5e63

SHA1: 428716aa7690bf1ca9bb9d2186d8e24822cb2eb5

SHA256: 06f572d4b06a131d0daf7c3832d8ffccb7b580131a9634bfda06acbc436bb522

i APP INFORMATION

App Name: UMR

Package Name: com.bob.umr

Main Activity: com.apmobileapp.MainActivity

Target SDK: 34 Min SDK: 28 Max SDK:

Android Version Name: 2.13.0

APP COMPONENTS

Activities: 8
Services: 8
Receivers: 4
Providers: 10
Exported Activities: 1

Exported Services: 1
Exported Receivers: 1
Exported Providers: 0



Binary is signed v1 signature: False v2 signature: False 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: 2022-11-18 11:45:13+00:00 Valid To: 2052-11-18 11:45:13+00:00

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

Serial Number: 0x48d44e7fe1dd2e74b2fbadd98541ee51ed2564cf

Hash Algorithm: sha256

md5: a05458d5a2a88bd4e8c0969a5f72b533

sha1: ab5a9c123d41d03e082627f268a2faf56992820d

sha256: 06ae7c264aaefbad9f761e514b4d46386d824952ba0aa01f34366014bf6b16d4

sha512: 7b5d3008576234349a8777f2a29ec7d1dd4bdd21daa61141672860dc2f33c811face77c28352fc9821fbd1102bb3526e00c8562a2611f93b504e2a6995cbbce0

PublicKey Algorithm: rsa

Bit Size: 4096

Fingerprint: deb434398d1bfa254b024c4fc06b795bea4b83a501e8fdbcece1710c9eaf4233

Found 1 unique certificates

E APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET		full Internet access	Allows an application to create network sockets.
android.permission.USE_BIOMETRIC		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.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.CAMERA		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.ACCESS_WIFI_STATE		view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.
android.permission.WAKE_LOCK		prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.WRITE_EXTERNAL_STORAGE		read/modify/delete external storage contents	Allows an application to write to external storage.

PERMISSION		INFO	DESCRIPTION
android.permission.READ_EXTERNAL_STORAGE		read external storage contents	Allows an application to read from external storage.
android.permission.DOWNLOAD_WITHOUT_NOTIFICATION	unknown	Unknown permission	Unknown permission from android reference
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.READ_MEDIA_VIDEO	dangerous	allows reading video files from external storage.	Allows an application to read video files from external storage.
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		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.c2dm.permission.RECEIVE	normal	recieve push notifications	Allows an application to receive push notifications from cloud.

PERMISSION	STATUS	INFO	DESCRIPTION
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.
com.bob.umr.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

命 APKID ANALYSIS

FILE	DETAILS		
6501d6e8634b665e737cb2a0cbfc5e63.apk	FINDINGS DETAILS		
0301d0e8034b003e737cb2a0cb1c3e03.apk	Anti-VM Code	possible VM check	

FILE	DETAILS		
	FINDINGS	DETAILS	
	yara_issue	yara issue - dex file recognized by apkid but not yara module	
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check Build.BOARD check possible Build.SERIAL check Build.TAGS check SIM operator check network operator name check possible VM check	
	Anti Debug Code	Debug.isDebuggerConnected() check	
	Compiler	unknown (please file detection issue!)	

FILE	DETAILS		
	FINDINGS	DETAILS	
	yara_issue	yara issue - dex file recognized by apkid but not yara module	
classes2.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.HARDWARE check Build.BOARD check	
	Compiler	unknown (please file detection issue!)	

BROWSABLE ACTIVITIES

ACTIVITY	INTENT
com.apmobileapp.MainActivity	Schemes: http://, @string/hsidPrefix://, Hosts: umr.app,



NO	SCOPE	SEVERITY	DESCRIPTION
1	umr.com	secure	Domain config is securely configured to disallow clear text traffic to these domains in scope.

CERTIFICATE ANALYSIS

HIGH: 0 | WARNING: 0 | INFO: 1

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

Q MANIFEST ANALYSIS

HIGH: 1 | WARNING: 4 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable Android version Android 9, minSdk=28]	warning	This application can be installed on an older version of android that has multiple vulnerabilities. Support an Android version => 10, API 29 to receive reasonable security updates.
2	App has a Network Security Configuration [android:networkSecurityConfig=@xml/network_security_config]	info	The Network Security Configuration feature lets apps customize their network security settings in a safe, declarative configuration file without modifying app code. These settings can be configured for specific domains and for a specific app.

NO	ISSUE	SEVERITY	DESCRIPTION
3	App Link assetlinks.json file not found [android:name=com.apmobileapp.MainActivity] [android:host=http://umr.app]	high	App Link asset verification URL (http://umr.app/.well-known/assetlinks.json) not found or configured incorrectly. (Status Code: 301). 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.
4	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.
5	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.

NO	ISSUE	SEVERITY	DESCRIPTION
6	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.

</> CODE ANALYSIS

HIGH: 0 | WARNING: 9 | INFO: 2 | SECURE: 2 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	STANDARDS	FILES
				a3/c.java a3/d.java a3/g.java a3/s.java a3/s.java a3/t.java a3/u.java ab/i.java b0/c.java b1/a.java c1/l0.java c3/a.java c8/a.java cg/i.java com/adobe/marketing/mobile/AbstractHitsDat abase.java com/adobe/marketing/mobile/Analytics.java

NO	ISSUE	SEVERITY	STANDARDS	com/adobe/marketing/mobile/AnalyticsDispat
				cherAnalyticsResponseldentity.java com/adobe/marketing/mobile/AnalyticsExtens ion.java com/adobe/marketing/mobile/AnalyticsHitsDa tabase.java com/adobe/marketing/mobile/AnalyticsListen erAcquisitionResponseContent.java com/adobe/marketing/mobile/AnalyticsListen erAnalyticsRequestContent.java com/adobe/marketing/mobile/AnalyticsListen erAnalyticsRequestIdentity.java com/adobe/marketing/mobile/AnalyticsListen erConfigurationResponseContent.java com/adobe/marketing/mobile/AnalyticsListen erGenericRequestReset.java com/adobe/marketing/mobile/AnalyticsListen erGenericTrackRequestContent.java com/adobe/marketing/mobile/AnalyticsListen erHubBooted.java com/adobe/marketing/mobile/AnalyticsListen erHubSharedState.java com/adobe/marketing/mobile/AnalyticsListen erLifecycleRequestContent.java com/adobe/marketing/mobile/AnalyticsListen erLifecycleResponseContent.java com/adobe/marketing/mobile/AnalyticsListen erRulesEngineResponseContent.java com/adobe/marketing/mobile/AnalyticsState.j ava com/adobe/marketing/mobile/AndroidCompr essedFileService.java com/adobe/marketing/mobile/AndroidDataba se.java com/adobe/marketing/mobile/AndroidEventH istoryDatabase.java com/adobe/marketing/mobile/AndroidEventH istoryDatabase.java com/adobe/marketing/mobile/AndroidLoggin
				gService.java com/adobe/marketing/mobile/AndroidNetwor

NO	ISSUE	SEVERITY	STANDARDS	kServiceOverrider.java FUFFAdobe/marketing/mobile/AssuranceConn ectionStatusUI.java
				com/adobe/marketing/mobile/AssuranceExte nsion.java com/adobe/marketing/mobile/AssuranceFloat ingButton.java com/adobe/marketing/mobile/AssuranceFullS creenTakeover.java com/adobe/marketing/mobile/AssurancePinC odeEntryURLProvider.java com/adobe/marketing/mobile/AssuranceSessi on.java com/adobe/marketing/mobile/AssuranceWeb ViewSocket.java com/adobe/marketing/mobile/CacheManager. java com/adobe/marketing/mobile/ConfigurationD ownloader.java com/adobe/marketing/mobile/ConfigurationE xtension.java com/adobe/marketing/mobile/Core.java com/adobe/marketing/mobile/DispatcherAnal yticsRequestContentIdentity.java com/adobe/marketing/mobile/DispatcherConf igurationRequestContentIdentity.java com/adobe/marketing/mobile/DispatcherIden tityResponseIdentityIdentity.java com/adobe/marketing/mobile/EventBus.java com/adobe/marketing/mobile/EventHub.java com/adobe/marketing/mobile/EventHub.java com/adobe/marketing/mobile/EventHub.java com/adobe/marketing/mobile/Identity.java com/adobe/marketing/mobile/IdentityExtensi on.java com/adobe/marketing/mobile/IdentityExtensi on.java com/adobe/marketing/mobile/IdentityUtitsChe

NO	ISSUE	SEVERITY	STANDARDS	ma.java FILES Contradobe/marketing/mobile/IdentityHitsDat
				abase.java com/adobe/marketing/mobile/LifecycleCore.ja va com/adobe/marketing/mobile/LifecycleExtens ion.java com/adobe/marketing/mobile/LifecycleMetric sBuilder.java com/adobe/marketing/mobile/LifecycleSessio n.java com/adobe/marketing/mobile/LifecycleV2Dat aStoreCache.java com/adobe/marketing/mobile/LifecycleV2Dis patcherApplicationState.java com/adobe/marketing/mobile/LifecycleV2Stat eManager.java com/adobe/marketing/mobile/Matcher.java com/adobe/marketing/mobile/MobileCore.jav a com/adobe/marketing/mobile/PersistentProfil eData.java com/adobe/marketing/mobile/PersistentProfil eData.java com/adobe/marketing/mobile/RuleSEngine.jav a com/adobe/marketing/mobile/RulesRemoteD ownloader.java com/adobe/marketing/mobile/SignalCore.java com/adobe/marketing/mobile/SignalExtensio n.java com/adobe/marketing/mobile/StringEncoder.j ava com/adobe/marketing/mobile/StringEncoder.j ava com/adobe/marketing/mobile/TargetCore.java com/adobe/marketing/mobile/TargetCore.java com/adobe/marketing/mobile/TargetCore.java
				com/adobe/marketing/mobile/TargetExtensio n.java com/adobe/marketing/mobile/TargetListenerR

NO	ISSUE	SEVERITY	STANDARDS	equestContent.java FILES com/adobe/marketing/mobile/TargetListenerR
				equestIdentity.java com/adobe/marketing/mobile/TimerState.java com/adobe/marketing/mobile/UserProfileCor e.java com/adobe/marketing/mobile/ZipBundleHan dler.java com/adobe/marketing/mobile/reactnative/tar get/RCTACPTargetModule.java com/apmobileapp/MainApplication.java com/appmattus/certificatetransparency/intern al/loglist/model/v3/Log\$\$serializer.java com/bumptech/glide/GeneratedAppGlideMod uleImpl.java com/bumptech/glide/load/data/b.java com/bumptech/glide/load/data/j.java com/bumptech/glide/load/data/l.java com/bumptech/glide/manager/e.java com/bumptech/glide/manager/p.java com/bumptech/glide/manager/q.java com/canhub/cropper/CropImageActivity.java com/canhub/cropper/CropOverlayView.java com/github/barteksc/pdfviewer/e.java com/github/barteksc/pdfviewer/h.java com/github/penfeizhou/animation/decode/b.j ava
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/learnium/RNDeviceInfo/RNDeviceModule .java com/learnium/RNDeviceInfo/d.java com/lugg/RNCConfig/RNCConfigModule.java com/reactcommunity/rndatetimepicker/d.java com/reactnativecommunity/asyncstorage/c.ja va com/reactnativecommunity/cookies/CookieM anagerModule.java com/reactnativecommunity/webview/e.java com/reactnativecommunity/webview/i.java com/reactnativecommunity/webview/k.java

NO	ISSUE	SEVERITY	STANDARDS	com/swmansion/gesturehandler/react/RNGest FILES ureHandlerModule.java
				com/swmansion/gesturehandler/react/i.java com/swmansion/gesturehandler/react/j.java com/swmansion/reanimated/NativeMethodsH elper.java com/swmansion/reanimated/ReanimatedMod ule.java com/swmansion/reanimated/ReanimatedUIM anagerFactory.java com/swmansion/reanimated/layoutReanimati on/AnimationsManager.java com/swmansion/reanimated/layoutReanimati on/ReanimatedNativeHierarchyManager.java com/swmansion/reanimated/layoutReanimati on/SharedTransitionManager.java com/swmansion/reanimated/nativeProxy/Nati veProxyCommon.java com/swmansion/reanimated/sensor/Reanima tedSensorContainer.java com/swmansion/rnscreens/ScreenStackHeade rConfigViewManager.java com/swmansion/rnscreens/ScreenStackHeade rConfigViewManager.java com/swmansion/rnscreens/ScreenSModule.ja va com/th3rdwave/safeareacontext/k.java d3/c.java d3/d.java d3/h.java d3/h.java d3/h.java d3/h.java e5/d.java e8/b.java ee/e.java ff/e.java fr/greweb/reactnativeviewshot/RNViewShotM odule.java
				fr/greweb/reactnativeviewshot/a.java

NO	ISSUE	SEVERITY	STANDARDS	g9/a.java g9/d-ja va gb/f.java
				h0/b.java
				h0/d.java
				h3/a.java
				h3/d.java
				h3/j.java
				hf/i.java
				i1/a.java
				i1/d.java
				ia/a.java
				io/invertase/firebase/app/ReactNativeFirebase
				App.java
				io/invertase/firebase/app/ReactNativeFirebase
				AppModule.java
				io/invertase/firebase/common/RCTConvertFir
				ebase.java
				io/invertase/firebase/common/ReactNativeFir
				ebaseEventEmitter.java
				io/invertase/firebase/common/SharedUtils.jav
				a
				io/invertase/firebase/crashlytics/ReactNativeFi
				rebaseCrashlyticsInitProvider.java
				io/invertase/firebase/crashlytics/ReactNativeFi
				rebaseCrashlyticsModule.java
				io/invertase/firebase/utils/ReactNativeFirebas
				eUtilsModule.java
				io/legere/pdfiumandroid/DefaultLogger.java
				io/legere/pdfiumandroid/PdfiumCore.java
				j1/h.java
				j3/c.java
				k9/g.java
				ke/m.java
				l3/h.java
				la/c.java
				lb/f.java
				lb/n.java
				lc/b.java
				m9/e.java
				m9/e0.java

				m9/I.java
NO	ISSUE	SEVERITY	STANDARDS	፟ጠ <mark>ሃ/Eig</mark> va m9/j0.java
				m9/m.java
				m9/v.java
				m9/z.java
				mc/c.java
				me/f.java
				me/t.java
				me/z.java
				mk/e.java
				n0/c.java
				o3/a.java
				o9/x.java
				ob/g.java
				org/wonday/pdf/a.java
				p0/a.java
				p9/a.java
				p9/a0.java
				p9/a1.java
				p9/b1.java
				p9/c.java
				p9/c1.java
				p9/d0.java
				p9/e1.java
				p9/k1.java
				p9/o1.java
				p9/x0.java
				q2/a.java
				q3/a.java
				r/f.java
				r2/d.java
				r2/e.java
				r3/c.java
				rb/s.java
				rc/a.java
				rc/e.java
				re/a.java
				s0/d.java
				s2/a.java
				s9/a.java

				t2/a.java
NO	ISSUE	SEVERITY	STANDARDS	P/besva
				u3/a.java
				u9/g.java
				u9/n.java
				ua/d.java
				uc/b0.java
				uc/d0.java
				uc/g.java
				uc/g0.java
				uc/k.java
				uc/x.java
				ud/b.java
				v2/c.java
				v2/e.java
				v3/b.java
				v3/h.java
				v3/k.java
				v4/f.java
				v5/a.java
				v5/g.java
				v8/k.java
				vc/a.java
				w0/n.java
				w2/h.java
				w2/i.java
				w2/k.java
				w2/q.java
				w2/z.java
				w7/a.java
				wc/c.java
				wc/f.java
				we/l.java
				wk/e.java
				x2/i.java
				x2/j.java
				x9/b.java
				xa/g.java
				y/c.java
				y2/e.java
				y2/i.java

NO	ISSUE	SEVERITY	STANDARDS	y8/a.java MUES va z1/a.java z2/a.java
2	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	com/appmattus/certificatetransparency/intern al/verifier/CertificateTransparencyTrustManag er.java h2/d.java h2/j.java h2/m.java n2/j.java y6/a.java
3	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/ReactNativeBlobUtil/i.java xd/a.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	ah/a.java ah/b.java bh/a.java hf/i.java lk/z.java zk/d.java
5	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/ReactNativeBlobUtil/c.java com/learnium/RNDeviceInfo/RNDeviceModule .java com/reactnativecommunity/webview/k.java com/rnfs/RNFSManager.java i4/a.java io/invertase/firebase/utils/ReactNativeFirebas eUtilsModule.java m1/c.java r3/c.java y3/a.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
6	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	c9/m0.java c9/v0.java com/adobe/marketing/mobile/AndroidDataba se.java com/adobe/marketing/mobile/AndroidEventH istoryDatabase.java com/reactnativecommunity/asyncstorage/f.jav a
7	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/ReactNativeBlobUtil/a.java com/canhub/cropper/CropImageActivity.java com/reactnativecommunity/webview/k.java fr/greweb/reactnativeviewshot/RNViewShotM odule.java lc/c.java r3/c.java y3/a.java
8	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	l4/c.java lc/b.java yf/b.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
9	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	com/adobe/marketing/mobile/reactnative/tar get/RCTACPTargetModule.java com/apmobileapp/BuildConfig.java com/appmattus/certificatetransparency/intern al/loglist/model/v3/Log.java expo/modules/adapters/react/NativeModules Proxy.java expo/modules/image/records/SourceMap.java expo/modules/webbrowser/OpenBrowserOpt ions.java io/invertase/firebase/common/TaskExecutorS ervice.java l5/g.java p2/e.java sb/b.java tb/e.java tb/e.java u2/g.java w2/d.java w2/d.java w2/d.java w2/r.java
10	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	d2/l.java n2/d.java vk/c.java vk/d.java vk/i.java vk/j.java
11	This App may have root detection capabilities.	secure	OWASP MASVS: MSTG-RESILIENCE-1	ab/w.java rb/i.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
12	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/adobe/marketing/mobile/AssuranceWeb ViewSocket.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	ie/a.java

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
----	------------	-------------	---------	-------------

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
00089	Connect to a URL and receive input stream from the server	command network	com/adobe/marketing/mobile/AssuranceBlob.java com/bumptech/glide/load/data/j.java com/rnfs/c.java mc/c.java
00030	Connect to the remote server through the given URL	network	com/bumptech/glide/load/data/j.java com/rnfs/c.java

RULE ID	BEHAVIOUR	LABEL	FILES
00109	Connect to a URL and get the response code	network command	com/adobe/marketing/mobile/AssuranceBlob.java com/bumptech/glide/load/data/j.java com/rnfs/c.java g9/d.java k9/f.java mc/c.java
00078	Get the network operator name	collection telephony	com/adobe/marketing/mobile/AssuranceClientInfo.java com/learnium/RNDeviceInfo/RNDeviceModule.java u1/c.java
00022	Open a file from given absolute path of the file	file	c4/c.java com/ReactNativeBlobUtil/c.java com/ReactNativeBlobUtil/g.java com/ReactNativeBlobUtil/g.java com/adobe/marketing/mobile/AbstractHitsDatabase.java com/adobe/marketing/mobile/CacheManager.java com/adobe/marketing/mobile/ConfigurationExtension.java com/adobe/marketing/mobile/RemoteDownloader.java com/adobe/marketing/mobile/RemoteDownloader.java com/rnfs/RNFSManager.java d0/m.java fr/greweb/reactnativeviewshot/RNViewShotModule.java i1/d.java i1/d.java i1/f.java i4/a.java io/invertase/firebase/utils/ReactNativeFirebaseUtilsModule.java ke/m.java m1/c.java me/e.java sb/f.java u3/a.java uf/c0.java y3/f.java ye/d.java

RULE ID	BEHAVIOUR	LABEL	FILES
00013	Read file and put it into a stream	file	a3/g.java al/q.java com/ReactNativeBlobUtil/c.java com/ReactNativeBlobUtil/c.java com/ReactNativeBlobUtil/e.java com/ReactNativeBlobUtil/h.java com/ReactNativeBlobUtil/h.java com/adobe/marketing/mobile/AndroidCompressedFileService.java com/adobe/marketing/mobile/ConfigurationExtension.java com/adobe/marketing/mobile/FileUtil.java com/adobe/marketing/mobile/FileUtil.java com/bumptech/glide/load/a.java com/christopherdro/RNPrint/RNPrintModule.java com/reactnativecommunity/asyncstorage/c.java com/rnfs/RNFSManager.java com/rnfs/i.java d0/m.java fl/b.java ke/m.java lc/c.java q2/a.java rb/b0.java sb/f.java tg/f.java u3/a.java w3/b.java wb/e.java xd/a.java yb/a.java

RULE ID	BEHAVIOUR	LABEL	FILES
00063	Implicit intent(view a web page, make a phone call, etc.)	control	com/ReactNativeBlobUtil/d.java com/ReactNativeBlobUtil/g.java com/adobe/marketing/mobile/AssuranceSession.java com/adobe/marketing/mobile/LocalNotificationHandler.java com/adobe/marketing/mobile/services/ui/a.java com/canhub/cropper/CropImageActivity.java fg/b.java fg/k.java i1/a.java j1/h.java j1/o.java ke/m.java m9/f.java vd/e.java w7/a.java xe/a.java xe/c.java
00162	Create InetSocketAddress object and connecting to it	socket	vk/b.java vk/j.java
00163	Create new Socket and connecting to it	socket	u1/g.java vk/b.java vk/j.java
00189	Get the content of a SMS message	sms	l4/f.java m1/c.java we/m.java
00188	Get the address of a SMS message	sms	l4/f.java m1/c.java we/m.java

RULE ID	BEHAVIOUR	LABEL	FILES
00200	Query data from the contact list	collection contact	l4/f.java m1/c.java we/m.java
00201	Query data from the call log	collection calllog	l4/f.java m1/c.java we/m.java
00014	Read file into a stream and put it into a JSON object	file	lc/c.java sb/f.java yb/a.java
00005	Get absolute path of file and put it to JSON object	file	sb/f.java
00114	Create a secure socket connection to the proxy address	network command	qk/f.java
00091	Retrieve data from broadcast	collection	com/ReactNativeBlobUtil/g.java com/adobe/marketing/mobile/LocalNotificationHandler.java
00024	Write file after Base64 decoding	reflection file	com/ReactNativeBlobUtil/a.java com/ReactNativeBlobUtil/g.java i1/e.java i1/f.java ke/m.java

RULE ID	BEHAVIOUR	LABEL	FILES
00051	Implicit intent(view a web page, make a phone call, etc.) via setData	control	com/ReactNativeBlobUtil/g.java com/adobe/marketing/mobile/LocalNotificationHandler.java com/adobe/marketing/mobile/services/ui/a.java fg/b.java fg/k.java j1/h.java m9/f.java vd/e.java
00125	Check if the given file path exist	file	com/ReactNativeBlobUtil/g.java ke/m.java
00191	Get messages in the SMS inbox	sms	com/ReactNativeBlobUtil/g.java m1/c.java
00009	Put data in cursor to JSON object	file	com/reactnativecommunity/asyncstorage/a.java
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms calllog calendar	h0/b.java h0/d.java m1/c.java v2/c.java we/m.java
00026	Method reflection	reflection	sh/a.java sh/b.java
00036	Get resource file from res/raw directory	reflection	expo/modules/image/records/SourceMap.java i1/d.java io/invertase/firebase/common/SharedUtils.java ke/m.java m9/f.java u3/a.java vd/e.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
00096	Connect to a URL and set request method	command network	com/adobe/marketing/mobile/AssuranceBlob.java mc/c.java
00153	Send binary data over HTTP	http	com/adobe/marketing/mobile/AssuranceBlob.java
00192	Get messages in the SMS inbox	sms	com/rnfs/RNFSManager.java i1/d.java m1/c.java
00028	Read file from assets directory	file	com/rnfs/RNFSManager.java
00043	Calculate WiFi signal strength	collection wifi	hd/e.java
00072	Write HTTP input stream into a file	command network file	com/rnfs/c.java
00121	Create a directory	file command	ke/m.java
00012	Read data and put it into a buffer stream	file	com/rnfs/i.java ke/m.java
00104	Check if the given path is directory	file	ke/m.java

RULE ID	BEHAVIOUR	LABEL	FILES
00187	Query a URI and check the result	collection sms calllog calendar	h0/d.java
00094	Connect to a URL and read data from it	command network	vb/a.java
00011	Query data from URI (SMS, CALLLOGS)	sms calllog collection	m1/c.java

FIREBASE DATABASES ANALYSIS

TITLE	SEVERITY	DESCRIPTION
Firebase Remote Config enabled	warning	The Firebase Remote Config at https://firebaseremoteconfig.googleapis.com/v1/projects/106305343195/namespaces/firebase:fetch? key=AlzaSyAeUin3SL-s-0e-Oh3tkt45fZa4lq1gEsk is enabled. Ensure that the configurations are not sensitive. This is indicated by the response: {'entries': {'config': '{}', 'minAppVersion': '1.0.0'}, 'state': 'UPDATE', 'templateVersion': '23'}

***: ::** ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	7/25	android.permission.INTERNET, android.permission.ACCESS_NETWORK_STATE, android.permission.CAMERA, android.permission.ACCESS_WIFI_STATE, android.permission.WAKE_LOCK, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.READ_EXTERNAL_STORAGE

TYPE	MATCHES	PERMISSIONS
Other Common Permissions	3/44	com.google.android.gms.permission.AD_ID, com.google.android.c2dm.permission.RECEIVE, 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
--------	----------------

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
pinterest.com	ok	IP: 151.101.192.84 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map

DOMAIN	STATUS	GEOLOCATION
expo.dev	ok	IP: 104.18.4.104 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
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
plus.google.com	ok	IP: 64.233.185.113 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
issuetracker.google.com	ok	IP: 64.233.177.139 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
blobs.griffon.adobe.com	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
play.google.com	ok	IP: 172.253.124.113 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
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: 140.82.113.4 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
firebase.google.com	ok	IP: 74.125.136.113 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
twitter.com	ok	IP: 162.159.140.229 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
developer.android.com	ok	IP: 64.233.176.138 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
docs.swmansion.com	ok	IP: 172.67.142.188 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
pagead2.googlesyndication.com	ok	IP: 142.250.9.155 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
aep-sdks.gitbook.io	ok	IP: 104.18.40.47 Country: United States of America Region: Texas City: Dallas Latitude: 32.783058 Longitude: -96.806671 View: Google Map
accounts.google.com	ok	IP: 172.217.215.84 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
www.gstatic.com	ok	IP: 142.250.72.227 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map
firebase-settings.crashlytics.com	ok	IP: 142.250.9.94 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map

DOMAIN	STATUS	GEOLOCATION
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
assets.adobedtm.com	ok	IP: 23.3.85.32 Country: United States of America Region: California City: Los Angeles Latitude: 34.052231 Longitude: -118.243683 View: Google Map
www.facebook.com	ok	IP: 31.13.70.36 Country: United States of America Region: California City: Los Angeles Latitude: 34.052231 Longitude: -118.243683 View: Google Map
shopify.github.io	ok	IP: 185.199.108.153 Country: United States of America Region: Pennsylvania City: California Latitude: 40.065632 Longitude: -79.891708 View: Google Map



EMAIL	FILE
u0013android@android.com0 u0013android@android.com	m9/u.java

A TRACKERS

TRACKER	CATEGORIES	URL
Adobe Experience Cloud		https://reports.exodus-privacy.eu.org/trackers/229
Google CrashLytics	Crash reporting	https://reports.exodus-privacy.eu.org/trackers/27
Google Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49

HARDCODED SECRETS

POSSIBLE SECRETS "ADOBE_ANALYTICS_KEY": "512027f42d3c/586706ea2f1d/launch-2ecb2e206b77" "ANDROID_FIREBASE_APP_ID": "1:106305343195:android:b4d412aa0fc210af2c06fe" "FIREBASE_PROJECT_ID": "ymstqpgx-movf-f364-pbog-dz539v"

POSSIBLE SECRETS

"IOS FIREBASE APP ID": "1:106305343195:ios:542c4a88088637a52c06fe"

"IOS_FIREBASE_APP_ID_INTERNAL": "1:106305343195:ios:f3475a8dc1a8f3082c06fe"

"com.google.firebase.crashlytics.mapping_file_id": "658d33e5413d414c8622ded8d6481a50"

"google_api_key": "AlzaSyAeUin3SL-s-0e-Oh3tkt45fZa4lq1gEsk"

"google_crash_reporting_api_key": "AlzaSyAeUin3SL-s-0e-Oh3tkt45fZa4lq1gEsk"

b4d412aa0fc210af2c06fe

542c4a88088637a52c06fe

000102030405060708090A0B0C0D0E0F101112131415161718191A1B1C1D1E1F20212232425262728292A2B2C2D2E2F303132333435363738393A3B3C3D3E3F4041 42434445464748494A4B4C4D4E4F505152535455565758595A5B5C5D5E5F606162636465666768696A6B6C6D6E6F707172737475767778797A7B7C7D7E7F80818283 8485868788898A8B8C8D8E8F909192939495969798999A9B9C9D9E9FA0A1A2A3A4A5A6A7A8A9AAABACADAEAFB0B1B2B3B4B5B6B7B8B9BABBBCBDBEBFC0C1C2C3 C4C5C6C7C8C9CACBCCCDCECFD0D1D2D3D4D5D6D7D8D9DADBDCDDDEDFE0E1E2E3E4E5E6E7E8E9EAEBECEDEEEFF0F1F2F3F4F5F6F7F8F9FAFBFCFDFEFF

f3475a8dc1a8f3082c06fe

258EAFA5-E914-47DA-95CA-C5AB0DC85B11

470fa2b4ae81cd56ecbcda9735803434cec591fa



> PLAYSTORE INFORMATION

Title: UMR | Health

Score: 4.242604 Installs: 100,000+ Price: 0 Android Version Support: Category: Medical Play Store URL: com.bob.umr

Developer Details: UNITED HEALTHCARE SERVICES, INC., UNITED+HEALTHCARE+SERVICES,+INC., None, https://www.umr.com/tpa-ap-web/? navDeepDive=publicContactUmrRoot, umrdigitalsol@umr.com,

Release Date: Dec 1, 2022 Privacy Policy: Privacy link

Description:

The UMR app makes it easy to access important details about your health care benefits. Sign in anytime to: • Find costs and care – Search for in-network health care providers, hospitals, and clinics – and see what you can expect to pay. • Access your digital ID card – Quickly share your coverage information with your providers, order a new ID card or add it to your digital wallet. • View your plan details – Find up-to-date plan balances, including any deductibles and out-of-pocket amounts. • Check your claims: Review claim information for recent services and receive paperless copies of your EOBs. • See timely "Things to do" – Get personalized alerts about steps for managing your health and benefits. • Contact us – Reach out for assistance by chat, call or secure messaging.

∷ SCAN LOGS

Timestamp	Event	Error
2025-08-29 20:27:33	Generating Hashes	ОК
2025-08-29 20:27:33	Extracting APK	OK
2025-08-29 20:27:33	Unzipping	OK
2025-08-29 20:27:34	Parsing APK with androguard	OK
2025-08-29 20:27:34	Extracting APK features using aapt/aapt2	OK

2025-08-29 20:27:34	Getting Hardcoded Certificates/Keystores	ОК
2025-08-29 20:27:35	Parsing AndroidManifest.xml	ОК
2025-08-29 20:27:35	Extracting Manifest Data	ОК
2025-08-29 20:27:35	Manifest Analysis Started	ОК
2025-08-29 20:27:36	Reading Network Security config from network_security_config.xml	ОК
2025-08-29 20:27:36	Parsing Network Security config	ОК
2025-08-29 20:27:36	Performing Static Analysis on: UMR (com.bob.umr)	ОК
2025-08-29 20:27:36	Fetching Details from Play Store: com.bob.umr	OK
2025-08-29 20:27:37	Checking for Malware Permissions	OK
2025-08-29 20:27:37	Fetching icon path	OK
2025-08-29 20:27:37	Library Binary Analysis Started	ОК

2025-08-29 20:27:37	Reading Code Signing Certificate	ОК
2025-08-29 20:27:37	Running APKiD 2.1.5	ОК
2025-08-29 20:27:39	Detecting Trackers	ОК
2025-08-29 20:27:40	Decompiling APK to Java with JADX	ОК
2025-08-29 20:27:51	Converting DEX to Smali	ОК
2025-08-29 20:27:51	Code Analysis Started on - java_source	ОК
2025-08-29 20:27:54	Android SBOM Analysis Completed	ОК
2025-08-29 20:28:00	Android SAST Completed	ОК
2025-08-29 20:28:00	Android API Analysis Started	ОК
2025-08-29 20:28:07	Android API Analysis Completed	ОК
2025-08-29 20:28:07	Android Permission Mapping Started	OK

2025-08-29 20:28:13	Android Permission Mapping Completed	ОК
2025-08-29 20:28:13	Android Behaviour Analysis Started	ОК
2025-08-29 20:28:21	Android Behaviour Analysis Completed	OK
2025-08-29 20:28:21	Extracting Emails and URLs from Source Code	OK
2025-08-29 20:28:23	Email and URL Extraction Completed	OK
2025-08-29 20:28:23	Extracting String data from APK	OK
2025-08-29 20:28:23	Extracting String data from Code	OK
2025-08-29 20:28:23	Extracting String values and entropies from Code	OK
2025-08-29 20:28:25	Performing Malware check on extracted domains	OK
2025-08-29 20:28:27	Saving to Database	OK

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.

© 2025 Mobile Security Framework - MobSF | Ajin Abraham | OpenSecurity.