

### ANDROID STATIC ANALYSIS REPORT

app\_icon

GPSMapApp (1.0)

File Name:	app-debug.apk
Package Name:	com.example.gpsmapapp
Scan Date:	Oct. 25, 2025, 7:06 p.m.
App Security Score:	46/100 (MEDIUM RISK)
Grade:	

### FINDINGS SEVERITY

<del>派</del> HIGH	▲ MEDIUM	<b>i</b> INFO	✓ SECURE	<b>◎</b> HOTSPOT
2	5	0	1	1

#### FILE INFORMATION

File Name: app-debug.apk

**Size:** 6.72MB

MD5: 338a6ad8557784da3c67cc3d466129b1

**SHA1:** 4e419ef1b3f6e12716aa2563f6fe244c375214c5

**SHA256**: 9d562de4b8390e79e1ff5465c85e799a49c2f1f2b7ec14ebfbdc189fba1f51e5

## **i** APP INFORMATION

**App Name:** GPSMapApp

**Package Name:** com.example.gpsmapapp

Main Activity: com.example.gpsmapapp.MainActivity

Target SDK: 36 Min SDK: 26 Max SDK:

**Android Version Name:** 1.0 **Android Version Code:** 1

#### **B** APP COMPONENTS

Activities: 4 Services: 0 Receivers: 1 Providers: 1

Exported Activities: 2 Exported Services: 0 Exported Receivers: 1 Exported Providers: 0



Binary is signed v1 signature: False v2 signature: True v3 signature: False v4 signature: False

X.509 Subject: CN=Android Debug, O=Android, C=US

Signature Algorithm: rsassa\_pkcs1v15 Valid From: 2025-09-02 23:10:52+00:00 Valid To: 2055-08-26 23:10:52+00:00

Issuer: CN=Android Debug, O=Android, C=US

Serial Number: 0x1 Hash Algorithm: sha256

md5: bbbf9f6096b6543578a1754347056eb8

sha1: ca00c1d92a1db8ae0f01d30ae3b3c726c358c432

sha256: 23b843457944882b3cbde583d0c59eadeb780661755626256df943a7271b4041

sha512: 58 fbba3 f76 fd6 a 7c0288029 d9c842 b7a37 f7 fc891 ba7 f7 fbbde57 fb007 f4a5c5eb6 db93 ea616106 b14c8 ba826 c3e11207488769 e390399 f408 fa6e7 e23 ec6658 b12c126 b12

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: 45 ad 9b 105 1bbbf 5f 5ac 61e 49fbcf 64059262bad 380b0c425 abdd 92a 223f 64a 50

Found 1 unique certificates

### **⋮** APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_FINE_LOCATION	dangerous	fine (GPS) location	Access fine location sources, such as the Global Positioning System on the phone, where available.  Malicious applications can use this to determine where you are and may consume additional battery power.
android.permission.ACCESS_COARSE_LOCATION	dangerous	coarse (network- based) location	Access coarse location sources, such as the mobile network database, to determine an approximate phone location, where available. Malicious applications can use this to determine approximately where you are.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
com.example.gpsmapapp.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference



FILE	DETAILS		
1	FINDINGS		DETAILS
classes3.dex	Compiler		r8
classes2.dex	FINDINGS DETAILS		
classesz.acx	Compiler	unknown (please file detect	ion issue!)
classes4.dex	FINDINGS	DETAILS	
Clusses+, dex	Compiler r8 without marker (sur		spicious)
	FINDINGS	DETAILS	
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.BRAND check	
	Compiler	r8	



NO	SCOPE	SEVERITY	DESCRIPTION

#### **CERTIFICATE ANALYSIS**

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

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
Application signed with debug certificate	high	Application signed with a debug certificate. Production application must not be shipped with a debug certificate.

# **Q** MANIFEST ANALYSIS

#### HIGH: 1 | WARNING: 5 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable Android version Android 8.0, minSdk=26]	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	Debug Enabled For App [android:debuggable=true]	high	Debugging was enabled on the app which makes it easier for reverse engineers to hook a debugger to it. This allows dumping a stack trace and accessing debugging helper classes.
3	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.

NO	ISSUE	SEVERITY	DESCRIPTION
4	Activity (com.example.gpsmapapp.MapaLugar) 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	Activity (com.example.gpsmapapp.map) 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 (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

NO ISSUE SEVERITY STANDARDS FILES
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## ■ NIAP ANALYSIS v1.3

NO IDENTIFIER REQUIREMENT	FEATURE DESCRIPTION	
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#### **\*: \*:** ABUSED PERMISSIONS

ТҮРЕ	MATCHES	PERMISSIONS
Malware Permissions	4/25	android.permission.ACCESS_FINE_LOCATION, android.permission.ACCESS_COARSE_LOCATION, android.permission.INTERNET, android.permission.ACCESS_NETWORK_STATE
Other Common Permissions	0/44	

#### **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.

DOWN III COONTRINCEGION	DOMAIN	COUNTRY/REGION
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### **Q** DOMAIN MALWARE CHECK

DOMAIN STATUS	GEOLOCATION
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DOMAIN	STATUS	GEOLOCATION
i.imgur.com	ok	IP: 151.101.52.193 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map

# HARDCODED SECRETS

#### **POSSIBLE SECRETS**

"google\_maps\_key": "AlzaSyCLHZsXTzy6kqldSKtD-8xwT6fTT174KII"

### **⋮**≡ SCAN LOGS

Timestamp	Event	Error
2025-10-25 19:06:18	Generating Hashes	OK
2025-10-25 19:06:18	Extracting APK	ОК

2025-10-25 19:06:18	Unzipping	ОК
2025-10-25 19:06:19	Parsing APK with androguard	OK
2025-10-25 19:06:19	Extracting APK features using aapt/aapt2	ОК
2025-10-25 19:06:19	Getting Hardcoded Certificates/Keystores	ОК
2025-10-25 19:06:21	Parsing AndroidManifest.xml	ОК
2025-10-25 19:06:21	Extracting Manifest Data	ОК
2025-10-25 19:06:21	Manifest Analysis Started	ОК
2025-10-25 19:06:21	Performing Static Analysis on: GPSMapApp (com.example.gpsmapapp)	ОК
2025-10-25 19:06:21	Fetching Details from Play Store: com.example.gpsmapapp	ОК
2025-10-25 19:06:22	Checking for Malware Permissions	ОК
2025-10-25 19:06:22	Fetching icon path	ОК

2025-10-25 19:06:22	Library Binary Analysis Started	ОК
2025-10-25 19:06:22	Reading Code Signing Certificate	OK
2025-10-25 19:06:22	Running APKiD 3.0.0	ок
2025-10-25 19:06:25	Detecting Trackers	ок
2025-10-25 19:06:26	Decompiling APK to Java with JADX	ОК
2025-10-25 19:06:44	Converting DEX to Smali	ок
2025-10-25 19:06:44	Code Analysis Started on - java_source	ок
2025-10-25 19:06:45	Android SBOM Analysis Completed	ок
2025-10-25 19:06:50	Android SAST Completed	ок
2025-10-25 19:06:50	Android API Analysis Started	ОК
2025-10-25 19:06:53	Android API Analysis Completed	ОК

2025-10-25 19:06:53	Android Permission Mapping Started	ОК
2025-10-25 19:06:57	Android Permission Mapping Completed	ОК
2025-10-25 19:06:57	Android Behaviour Analysis Started	ОК
2025-10-25 19:07:01	Android Behaviour Analysis Completed	ОК
2025-10-25 19:07:01	Extracting Emails and URLs from Source Code	ОК
2025-10-25 19:07:01	Email and URL Extraction Completed	ОК
2025-10-25 19:07:01	Extracting String data from APK	ОК
2025-10-25 19:07:01	Extracting String data from Code	ОК
2025-10-25 19:07:01	Extracting String values and entropies from Code	ОК
2025-10-25 19:07:02	Performing Malware check on extracted domains	ОК
2025-10-25 19:07:03	Saving to Database	ОК

#### Report Generated by - MobSF v4.4.3

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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