

ANDROID STATIC ANALYSIS REPORT

app_icon

TestMaps (1.0)

File Name:	app-debug.apk
Package Name:	com.vincentaitzz.testmaps
Scan Date:	Oct. 23, 2024, 2:57 a.m.
App Security Score:	31/100 (HIGH RISK)
Grade:	C

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	◎ HOTSPOT
4	2	0	1	1

FILE INFORMATION

File Name: app-debug.apk

Size: 6.18MB

MD5: 22c7e39455c72f1b9a7a132a93876a5a

SHA1: 316269c5db1980e3ee99a2ad79b5805fe23c9865

SHA256: f769d6e3a81994feb32ff8c49597e22c2fac75d95642ac1221c85ca6144dd565

i APP INFORMATION

App Name: TestMaps

Package Name: com.vincentaitzz.testmaps

Main Activity: com.vincentaitzz.testmaps.MainActivity

Target SDK: 34 Min SDK: 24 Max SDK:

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

B APP COMPONENTS

Activities: 3 Services: 0 Receivers: 1 Providers: 1

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

***** CERTIFICATE INFORMATION

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: 2024-08-18 00:29:42+00:00 Valid To: 2054-08-11 00:29:42+00:00

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

Serial Number: 0x1 Hash Algorithm: sha1

md5: 426db2a0df8fe3f09e48758bad407108

sha1: 66c8456f8afb9e106dc4e38a498b87ab3019a275

sha256: 597e17fb6079bf68a332c69a2ee88161c7e13e22f64c9ead3ab42a9d600f805b

sha512: 5eca5 fac5bf 507d 3655dff 6ac72008df 3c5304eccfe 316fb 344ed 1a871133e7dd 9dbbd 1b3825cc 660cb 1a2ee 8081ec7f 978a 2123c7b 235d 625a7776abdb 1aabaar 1a2ee 8081ec7f 978a 2123c7b 235d 625a776abdb 1aabaar 1a2ee 8081ec7f 978a 2125c7b 978a

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: e51136cd8851c8db2844ee39d5fb1c5863245ae995d710440b661bc40530fb27

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.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
com.vincentaitzz.testmaps.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference



FILE	DETAILS			
	FINDINGS		DETAILS	
classes2.dex	Compiler		dx	
		<u> </u>		
classes3.dex	FINDINGS DETAILS			
	Compiler r8 without marker (sus		picious)	
classes4.dex	FINDINGS DETAILS			
Clusses+.ucx	Compiler r8 without marker (sus		picious)	
classes5.dex	FINDINGS DETAILS			
Classessiuck	Compiler r8 without marker (suspicious)		picious)	

FILE	DETAILS		
	FINDINGS	DETAILS	
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.BRAND check	
	Compiler	r8 without marker (suspicious)	

△ NETWORK SECURITY

NO SCOPE SEVERITY DESCRIPTION	
-------------------------------	--

CERTIFICATE ANALYSIS

HIGH: 2 | 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.

TITLE	SEVERITY	DESCRIPTION
Certificate algorithm vulnerable to hash collision	high	Application is signed with SHA1withRSA. SHA1 hash algorithm is known to have collision issues.

Q MANIFEST ANALYSIS

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

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable upatched Android version Android 7.0, [minSdk=24]	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	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.
4	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.



NO ISSUE SEVERITY STANDARDS FILES	
-----------------------------------	--

■ NIAP ANALYSIS v1.3

NO IDENTIFIER REQUIREMENT FEA	EATURE DESCRIPTION
-------------------------------	--------------------

***: ::** ABUSED PERMISSIONS

ТҮРЕ	MATCHES	PERMISSIONS
Malware Permissions	4/24	android.permission.ACCESS_FINE_LOCATION, android.permission.ACCESS_COARSE_LOCATION, android.permission.ACCESS_NETWORK_STATE, android.permission.INTERNET
Other Common Permissions	0/45	

Malware Permissions:

Top permissions that are widely abused by known malware.

Other Common Permissions:

Permissions that are commonly abused by known malware.

⋮≡ SCAN LOGS

Timestamp	Event	Error

2024-10-23 03:07:35	Generating Hashes	ОК
2024-10-23 03:07:35	Extracting APK	ОК
2024-10-23 03:07:35	Unzipping	ОК
2024-10-23 03:07:37	Getting Hardcoded Certificates/Keystores	OK
2024-10-23 03:07:37	Parsing AndroidManifest.xml	OK
2024-10-23 03:07:37	Parsing APK with androguard	ОК
2024-10-23 03:07:42	Extracting Manifest Data	ОК
2024-10-23 03:07:42	Performing Static Analysis on: TestMaps (com.vincentaitzz.testmaps)	ОК
2024-10-23 03:07:42	Fetching Details from Play Store: com.vincentaitzz.testmaps	ОК
2024-10-23 03:07:42	Manifest Analysis Started	ОК
2024-10-23 03:07:42	Checking for Malware Permissions	ОК

2024-10-23 03:07:42	Fetching icon path	ОК
2024-10-23 03:07:42	Library Binary Analysis Started	ОК
2024-10-23 03:07:42	Reading Code Signing Certificate	ОК
2024-10-23 03:07:45	Running APKiD 2.1.5	ОК
2024-10-23 03:07:56	Android SAST Completed	ОК
2024-10-23 03:07:56	Android API Analysis Started	ОК
2024-10-23 03:07:57	Detecting Trackers	ОК
2024-10-23 03:08:15	Decompiling APK to Java with jadx	ОК
2024-10-23 03:08:33	Android Permission Mapping Started	ОК
2024-10-23 03:08:33	Android Permission Mapping Completed	ОК
2024-10-23 03:08:33	Finished Code Analysis, Email and URL Extraction	ОК

2024-10-23 03:08:33	Extracting String data from APK	ОК
2024-10-23 03:08:35	Extracting String data from Code	OK
2024-10-23 03:08:35	Extracting String values and entropies from Code	ок
2024-10-23 03:08:35	Performing Malware check on extracted domains	ок
2024-10-23 03:08:35	Saving to Database	ОК
2024-10-23 03:12:00	Android Permission Mapping Started	ОК
2024-10-23 03:12:10	Android SAST Completed	ОК
2024-10-23 03:12:10	Android API Analysis Started	ОК
2024-10-23 03:12:17	Converting DEX to Smali	ОК
2024-10-23 03:12:17	Code Analysis Started on - java_source	ок
2024-10-23 03:12:42	Android Permission Mapping Completed	ОК

2024-10-23 03:12:43	Finished Code Analysis, Email and URL Extraction	ОК
2024-10-23 03:12:43	Extracting String data from APK	ОК
2024-10-23 03:12:45	Extracting String data from Code	ОК
2024-10-23 03:12:45	Extracting String values and entropies from Code	ОК
2024-10-23 03:12:49	Performing Malware check on extracted domains	ОК
2024-10-23 03:12:49	Saving to Database	ОК
2024-10-23 03:13:28	Android SAST Completed	ОК
2024-10-23 03:13:28	Android API Analysis Started	OK
2024-10-23 03:13:40	Android SAST Completed	OK
2024-10-23 03:13:40	Android API Analysis Started	ОК
2024-10-23 03:14:54	Android SAST Completed	ОК

2024-10-23 03:14:54	Android API Analysis Started	ОК
2024-10-23 03:15:00	Android SAST Completed	ОК
2024-10-23 03:15:00	Android API Analysis Started	ОК
2024-10-23 03:15:23	Android Permission Mapping Started	ОК

Report Generated by - MobSF v4.0.7

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.

© 2024 Mobile Security Framework - MobSF | Ajin Abraham | OpenSecurity.