

ANDROID STATIC ANALYSIS REPORT



Hypatia (3.14)

File Name:	us.spotco.malwarescanner_314.apk	
Package Name:	us.spotco.malwarescanner	
Scan Date:	Aug. 1, 2025, 1:25 a.m.	
App Security Score:	51/100 (MEDIUM RISK)	
Grade:		

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	® HOTSPOT
1	10	1	1	1

FILE INFORMATION

File Name: us.spotco.malwarescanner_314.apk

Size: 0.53MB

MD5: 27fff09bdf46a66accd58b23e754d53d

SHA1: 2736d0720232c676b58653fc981750227328267e

SHA256: 7262cf1f76a04c91f187b958658aa588d7a313534f5522daa5a9d159297b21da

1 APP INFORMATION

App Name: Hypatia

Package Name: us.spotco.malwarescanner

Main Activity: us.spotco.malwarescanner.MainActivity

Target SDK: 32 Min SDK: 16 Max SDK:

Android Version Name: 3.14
Android Version Code: 314

B APP COMPONENTS

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

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

***** CERTIFICATE INFORMATION

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

X.509 Subject: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2021-06-07 06:57:28+00:00 Valid To: 2048-10-23 06:57:28+00:00

Issuer: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid

Serial Number: 0xdebccec25a9b89d8

Hash Algorithm: sha256

md5: 058292ad0dcdd1d1564a7b8bec0febea

sha1: da23cda8dcbad9060d429b25613365be6142470f

sha256: 793660516b62ae8deba66d5e5e4244e0931749ab9f48575b501244ceea858a84

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: 6eee 5c977b6b1d99e9f627805a2896870e81cb84ddebe50584d03cddbdf349b5

Found 1 unique certificates

⋮ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.FOREGROUND_SERVICE	normal	enables regular apps to use Service.startForeground.	Allows a regular application to use Service.startForeground.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.MANAGE_EXTERNAL_STORAGE	dangerous	Allows an application a broad access to external storage in scoped storage	Allows an application a broad access to external storage in scoped storage. Intended to be used by few apps that need to manage files on behalf of the users.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
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.
android.permission.QUERY_ALL_PACKAGES	normal	enables querying any normal app on the device.	Allows query of any normal app on the device, regardless of manifest declarations.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.REQUEST_DELETE_PACKAGES	normal	enables an app to request package deletions.	Allows an application to request deleting packages.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.

ক্ল APKID ANALYSIS

FILE	DETAILS		
classes.dex	FINDINGS DETAILS		
Classes.dex	Compiler	r8 without marker (suspicious)	

△ NETWORK SECURITY

NO SCOPE	SEVERITY	DESCRIPTION	
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CERTIFICATE ANALYSIS

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

Q MANIFEST ANALYSIS

HIGH: 1 | WARNING: 3 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable unpatched Android version Android 4.1-4.1.2, [minSdk=16]	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	Launch Mode of activity (us.spotco.malwarescanner.NotificationPromptActivity) is not standard.	warning	An Activity should not be having the launch mode attribute set to "singleTask/singleInstance" as it becomes root Activity and it is possible for other applications to read the contents of the calling Intent. So it is required to use the "standard" launch mode attribute when sensitive information is included in an Intent.
4	Broadcast Receiver (us.spotco.malwarescanner.EventReceiver) 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.

</> CODE ANALYSIS

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

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	The App logs information. Sensitive information should never be logged.	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	us/spotco/malwarescanner/Database.java us/spotco/malwarescanner/GPGDetachedSign atureVerifier.java us/spotco/malwarescanner/MainActivity.java us/spotco/malwarescanner/NotificationProm ptActivity.java
2	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	us/spotco/malwarescanner/MainActivity.java us/spotco/malwarescanner/MalwareScanner.j ava us/spotco/malwarescanner/MalwareScannerS ervice.java us/spotco/malwarescanner/Utils.java
3	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	us/spotco/malwarescanner/LinkScannerServic e.java us/spotco/malwarescanner/MalwareScanner.j ava us/spotco/malwarescanner/Utils.java
4	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	us/spotco/malwarescanner/MalwareScanner.j ava
5	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	us/spotco/malwarescanner/MalwareScanner.j ava

NO	ISSUE	SEVERITY	STANDARDS	FILES
6	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	us/spotco/malwarescanner/Database.java us/spotco/malwarescanner/Utils.java

■ NIAP ANALYSIS v1.3

BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
00063	Implicit intent(view a web page, make a phone call, etc.)	control	us/spotco/malwarescanner/NotificationPromptActivity.java
00022	Open a file from given absolute path of the file	file	us/spotco/malwarescanner/RecursiveFileObserver.java
00013	Read file and put it into a stream	file	us/spotco/malwarescanner/Database.java us/spotco/malwarescanner/GPGDetachedSignatureVerifier.java us/spotco/malwarescanner/MalwareScanner.java
00072	Write HTTP input stream into a file	command network file	us/spotco/malwarescanner/Database.java
00089	Connect to a URL and receive input stream from the server	command network	us/spotco/malwarescanner/Database.java

RULE ID	BEHAVIOUR	LABEL	FILES
00030	Connect to the remote server through the given URL	network	us/spotco/malwarescanner/Database.java
00109	Connect to a URL and get the response code	network command	us/spotco/malwarescanner/Database.java
00012	Read data and put it into a buffer stream	file	us/spotco/malwarescanner/GPGDetachedSignatureVerifier.java

***: ::** ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	6/25	android.permission.ACCESS_NETWORK_STATE, android.permission.INTERNET, android.permission.READ_EXTERNAL_STORAGE, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.RECEIVE_BOOT_COMPLETED, android.permission.WAKE_LOCK
Other Common Permissions	1/44	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.

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
divested.dev	ok	IP: 107.161.22.194 Country: United States of America Region: Georgia City: Atlanta Latitude: 33.831848 Longitude: -84.386612 View: Google Map
eeyo.re	ok	No Geolocation information available.
www.virustotal.com	ok	IP: 34.54.88.138 Country: United States of America Region: Texas City: Houston Latitude: 29.941401 Longitude: -95.344498 View: Google Map



POSSIBLE SECRETS
A9FB57DBA1EEA9BC3E660A909D838D726E3BF623D52620282013481D1F6E5374
0202F9F87B7C574D0BDECF8A22E6524775F98CDEBDCB
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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POSSIBLE SECRETS
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7D5A0975FC2C3057EEF67530417AFFE7FB8055C126DC5C6CE94A4B44F330B5D9

∶≡ SCAN LOGS

Timestamp	Event	Error
2025-08-01 01:25:38	Generating Hashes	ОК
2025-08-01 01:25:38	Extracting APK	ОК
2025-08-01 01:25:38	Unzipping	ОК

2025-08-01 01:25:38	Parsing APK with androguard	OK
2025-08-01 01:25:39	Extracting APK features using aapt/aapt2	ОК
2025-08-01 01:25:39	Getting Hardcoded Certificates/Keystores	ОК
2025-08-01 01:25:43	Parsing AndroidManifest.xml	ОК
2025-08-01 01:25:43	Extracting Manifest Data	ОК
2025-08-01 01:25:43	Manifest Analysis Started	ОК
2025-08-01 01:25:43	Performing Static Analysis on: Hypatia (us.spotco.malwarescanner)	ОК
2025-08-01 01:25:43	Fetching Details from Play Store: us.spotco.malwarescanner	OK
2025-08-01 01:25:44	Checking for Malware Permissions	ОК
2025-08-01 01:25:44	Fetching icon path	ОК
2025-08-01 01:25:44	Library Binary Analysis Started	ОК

2025-08-01 01:25:44	Reading Code Signing Certificate	ОК
2025-08-01 01:25:45	Running APKiD 2.1.5	OK
2025-08-01 01:25:47	Detecting Trackers	ОК
2025-08-01 01:25:48	Decompiling APK to Java with JADX	ОК
2025-08-01 01:26:07	Converting DEX to Smali	ОК
2025-08-01 01:26:07	Code Analysis Started on - java_source	ОК
2025-08-01 01:26:07	Android SBOM Analysis Completed	ОК
2025-08-01 01:26:09	Android SAST Completed	ОК
2025-08-01 01:26:10	Android API Analysis Started	ОК
2025-08-01 01:26:13	Android API Analysis Completed	ОК
2025-08-01 01:26:13	Android Permission Mapping Started	ОК

2025-08-01 01:26:14	Android Permission Mapping Completed	ОК
2025-08-01 01:26:14	Android Behaviour Analysis Started	ОК
2025-08-01 01:26:15	Android Behaviour Analysis Completed	OK
2025-08-01 01:26:15	Extracting Emails and URLs from Source Code	OK
2025-08-01 01:26:15	Email and URL Extraction Completed	OK
2025-08-01 01:26:15	Extracting String data from APK	ОК
2025-08-01 01:26:16	Extracting String data from Code	ОК
2025-08-01 01:26:16	Extracting String values and entropies from Code	ОК
2025-08-01 01:26:16	Performing Malware check on extracted domains	ОК
2025-08-01 01:26:18	Saving to Database	ОК

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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