

ANDROID STATIC ANALYSIS REPORT



Open Sudoku (3.4.1)

File Name:	installer80.apk		
Package Name:	org.moire.opensudoku		
Scan Date:	May 31, 2022, 1:02 p.m.		
App Security Score:	52/100 (MEDIUM RISK)		
Grade:			

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	≪ HOTSPOT
1	6	1	1	1

FILE INFORMATION

File Name: installer80.apk

Size: 1.92MB

MD5: 3bbbc7c97b223c5ba4621b1536150915

SHA1: 7472c90ab6d7d02ab49523347980970b69a20ab8

SHA256: bf8965719e0f99eeba6c400226b553da8fd750e818a09a02ce5feaf767fdc161

i APP INFORMATION

App Name: Open Sudoku

Package Name: org.moire.opensudoku

Main Activity: org.moire.opensudoku.gui.TitleScreenActivity

Target SDK: 28 Min SDK: 14 Max SDK:

Android Version Name: 3.4.1
Android Version Code: 20200612

EE APP COMPONENTS

Activities: 11 Services: 0 Receivers: 0 Providers: 0

Exported Activities: 4 Exported Services: 0 Exported Receivers: 0 Exported Providers: 0



APK is signed v1 signature: True v2 signature: False v3 signature: False

Found 1 unique certificates

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

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2018-06-02 05:14:20+00:00 Valid To: 2045-10-18 05:14:20+00:00

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

Serial Number: 0x1c2d48b1 Hash Algorithm: sha256

md5: a3536645310b57ef46b315ebb9be6267 sha1: 5c9933e03adcf2ada180ecffb4feff37a5882388

sha256: a54ce29ebb02fcb9b478620572f7c4dd39b903736fe6199687471ba729f4613a

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

TITLE	SEVERITY	DESCRIPTION
Application vulnerable to Janus Vulnerability	high	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.

⋮ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
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.

M APKID ANALYSIS

FILE DETAILS

FILE	DETAILS		
	FINDINGS	DETAILS	
classes.dex	Anti-VM Code	Build.MANUFACTURER check	
	Compiler	unknown (please file detection issue!)	

BROWSABLE ACTIVITIES

ACTIVITY	INTENT
org.moire.opensudoku.gui.FileImportActivity	Schemes: file://, http://, Hosts: *, Path Patterns: .*\\.sdm, .*\\.opensudoku,

△ NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION
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Q MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	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.
2	Activity (org.moire.opensudoku.gui.SudokuEditActivity) is not Protected. An intent-filter exists.	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. The presence of intent-filter indicates that the Activity is explicitly exported.
3	Activity (org.moire.opensudoku.gui.FileImportActivity) is not Protected. An intent-filter exists.	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. The presence of intent-filter indicates that the Activity is explicitly exported.
4	Activity (org.moire.opensudoku.gui.lmportSudokuActivity) is not Protected. An intent-filter exists.	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. The presence of intent-filter indicates that the Activity is explicitly exported.
5	Activity (org.moire.opensudoku.gui.SudokulmportActivity) is not Protected. An intent-filter exists.	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. The presence of intent-filter indicates that the Activity is explicitly exported.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
				org/moire/opensudoku/gui/e1/ b.java b/f/e/h.java org/moire/opensudoku/gui/Fol

NO	ISSLIF	SEVERITY	STANDARDS	derListActivity.java ៤/ʃ/ជ្រ cjava
110	13301	JEVEIXI I	31/110/11/03	b/f/l/t.java
NO 1	The App logs information. Sensitive information should never be logged.	SEVERITY	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	b/f/l/t.java b/f/e/f.java b/f/l/b.java org/moire/opensudoku/gui/f1/a .java b/l/i0.java b/f/e/b.java b/m/a/a/i.java c/a/a/a/l/h.java b/f/k/b.java b/f/l/w.java b/f/l/w.java b/f/l/g.java b/f/j/b.java org/moire/opensudoku/gui/Sud okuEditActivity.java c/a/a/a/x/b.java b/h/b/c.java org/moire/opensudoku/gui/Sud okuExportActivity.java org/moire/opensudoku/gui/Sud okuExportActivity.java org/moire/opensudoku/gui/Sud okuExportActivity.java org/moire/opensudoku/gui/Sud okuExportActivity.java org/moire/opensudoku/gui/Sud okuExportActivity.java org/moire/opensudoku/gui/Sud okuListActivity.java org/moire/opensudoku/gui/Sud okuListActivity.java org/moire/opensudoku/gui/Sud okuListActivity.java org/moire/opensudoku/gui/Sud okuListActivity.java org/moire/opensudoku/gui/Sud okuListActivity.java
				org/moire/opensudoku/gui/w0.j ava b/f/e/i.java

NO	ISSUE	SEVERITY	STANDARDS	okulmportActivity.java 种神阳 。java
2	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	d/a/a/b/b.java d/a/a/b/a.java

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	FCS_STO_EXT.1.1	Security Functional Requirements	Storage of Credentials	The application does not store any credentials to non-volatile memory.
2	FCS_CKM_EXT.1.1	Security Functional Requirements	Cryptographic Key Generation Services	The application generate no asymmetric cryptographic keys.
3	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['network connectivity'].
4	FDP_DEC_EXT.1.2	Security Functional Requirements	Access to Platform Resources	The application has access to no sensitive information repositories.
5	FDP_NET_EXT.1.1	Security Functional Requirements	Network Communications	The application has user/application initiated network communications.
6	FDP_DAR_EXT.1.1	Security Functional Requirements	Encryption Of Sensitive Application Data	The application does not encrypt files in non-volatile memory.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
7	FMT_MEC_EXT.1.1	Security Functional Requirements	Supported Configuration Mechanism	The application invoke the mechanisms recommended by the platform vendor for storing and setting configuration options.
8	FTP_DIT_EXT.1.1	Security Functional Requirements	Protection of Data in Transit	The application does encrypt some transmitted data with HTTPS/TLS/SSH between itself and another trusted IT product.

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
schemas.android.com	ok	No Geolocation information available.
opensudoku.moire.org	ok	IP: 188.114.97.0 Country: Spain Region: Madrid, Comunidad de City: Madrid Latitude: 40.416500 Longitude: -3.702560 View: Google Map

EMAILS

EMAIL	FILE
opensudoku@moire.org	Android String Resource

Report Generated by - MobSF v3.5.2 Beta

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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