MOBSF

ANDROID STATIC ANALYSIS REPORT

Lexica (1.1.0)

File Name:	installer39.apk
Package Name:	com.serwylo.lexica
Scan Date:	May 30, 2022, 4:10 p.m.
App Security Score:	53/100 (MEDIUM RISK)
Grade:	B

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
1	4	1	1	0

FILE INFORMATION

File Name: installer39.apk
Size: 6.94MB
MD5: 32199f39a1fe0555f451ef1e917b10b4
SHA1: 79972c42377ca82b02484d2eb032c551a1004baa
SHA256: 629c4c54ca44b2372947c648b46d2b5086aac4dc2466dd23a1c76a93ffae20a4

APP INFORMATION

App Name: Lexica
Package Name: com.serwylo.lexica
Main Activity: com.serwylo.lexica.MainMenuActivity
Target SDK: 28
Min SDK: 18
Max SDK:
Android Version Name: 1.1.0
Android Version Code: 10100

APP COMPONENTS

Activities: 4
Services: 0
Receivers: 0
Providers: 0
Exported Activities: 2
Exported Services: 0
Exported Receivers: 0
Exported Providers: 0

CERTIFICATE INFORMATION

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: 2016-01-11 09:34:46+00:00
Valid To: 2043-05-29 09:34:46+00:00
Issuer: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid
Serial Number: 0x28c2d86c
Hash Algorithm: sha256
md5: 6968aaf44ae5f85e7b1858a897beaa69
sha1: 8ea53bea8de1d78b260701e2efe817ce308bdbd8
sha256: c82e0f64ca38b88c8a6e6a459183f8b831eb3eaffe033dbda13852331d57542f
sha512: 63293486e1128ba2cf8dc9918b93588c01c2ab9164d21063aaa91b7267edbb8e940a89e1c3c67a242d298d0eac603521fdb76bdcb7f4c186e9b417d978ff21e6

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.

APKID ANALYSIS

FILE	DETAILS
classes.dex	FINDINGS: Compiler — DETAILS: r8

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION

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 (com.serwylo.lexica.GameActivity) 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 (com.serwylo.lexica.activities.score.ScoreActivity) 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
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/serwylo/lexica/Util.java com/serwylo/lexica/GameActivity.java mehdi/sakout/fancybuttons/FancyButton.java com/serwylo/lexica/game/Game.java mehdi/sakout/fancybuttons/Utils.java
2	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	com/serwylo/lexica/view/LexicaLogo.java com/serwylo/lexica/game/CharProbGenerator.java

NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	FCS_RBG_EXT.1.1	Security Functional Requirements	Random Bit Generation Services	The application use no DRBG functionality for its cryptographic operations.
2	FCS_STO_EXT.1.1	Security Functional Requirements	Storage of Credentials	The application does not store any credentials to non-volatile memory.
3	FCS_CKM_EXT.1.1	Security Functional Requirements	Cryptographic Key Generation Services	The application generate no asymmetric cryptographic keys.
4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to no hardware resources.
5	FDP_DEC_EXT.1.2	Security Functional Requirements	Access to Platform Resources	The application has access to no sensitive information repositories.
6	FDP_NET_EXT.1.1	Security Functional Requirements	Network Communications	The application has no network communications.
7	FDP_DAR_EXT.1.1	Security Functional Requirements	Encryption Of Sensitive Application Data	The application implement functionality to encrypt sensitive data in non-volatile memory.
8	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.
9	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.

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
github.com	ok	**IP:** 140.82.121.3 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
duckduckgo.com	ok	**IP:** 52.142.124.215 **Country:** Ireland **Region:** Dublin **City:** Dublin **Latitude:** 53.343990 **Longitude:** -6.267190 **View:** Google Map
sjp.pl	ok	**IP:** 145.239.10.41 **Country:** France **Region:** Hauts-de-France **City:** Roubaix **Latitude:** 50.694210 **Longitude:** 3.174560 **View:** Google Map

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