



ANDROID STATIC ANALYSIS REPORT



 Tux Rider (1.0.9)

File Name: installer383.apk

Package Name: com.drodin.tuxrider

Scan Date: May 31, 2022, 4:08 p.m.






App Security Score: 20/100 (CRITICAL RISK)

Grade:



Trackers Detection: 1/428

FINDINGS SEVERITY

 HIGH	 MEDIUM	 INFO	 SECURE	 HOTSPOT
3	2	1	0	1

FILE INFORMATION

File Name: installer383.apk

Size: 6.73MB

MD5: ee743600f50c681261e6358d649d35d6

SHA1: 504fe630a22b26b6fb05701f2fa65282e8f7734f

SHA256: 32c6d43503559c868d239195249944f62580117d70afc38aad15a28b4e7b9eab

APP INFORMATION

App Name: Tux Rider

Package Name: com.drodin.tuxrider

Main Activity: .Installer

Target SDK: 3

Min SDK: 3

Max SDK:

Android Version Name: 1.0.9

Android Version Code: 11

APP COMPONENTS

Activities: 3

Services: 0

Receivers: 0

Providers: 0

Exported Activities: 0

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: 2012-11-07 06:15:25+00:00

Valid To: 2040-03-25 06:15:25+00:00

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

Serial Number: 0x5099fc7d

Hash Algorithm: sha1

md5: 0d93be5608dca49c3bc5e8b7e6a5873b

sha1: 4ad8c41065d2a27e5cb8db1ca7ab2b6effae9126

sha256: 07f456d12014f4b668994d2f1da10cf4910d19d8af20cd157c19e2cd7c5a5ebd

sha512: 03eb8491d840db0b13c183b3e5d4bbf79694ea6d58083f64a5cf3ef9f68d35350477121737f661e628660badda9d41fd184d6abbcbd2432ec0d96493f14d22fb

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
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.
Certificate algorithm might be vulnerable to hash collision	high	Application is signed with SHA1withRSA. SHA1 hash algorithm is known to have collision issues.

≡ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
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.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.

🌀 APKID ANALYSIS

FILE	DETAILS	
classes.dex	FINDINGS	DETAILS
	Compiler	dx

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION
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MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	Application Data can be Backed up [android:allowBackup] flag is missing.	warning	The flag [android:allowBackup] should be set to false. By default it is set to true and 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	Launch Mode of Activity (.MainActivity) is not standard.	high	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.

</> 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/drodin/tuxrider/MyGLSurfaceView.java

🚩 SHARED LIBRARY BINARY ANALYSIS

NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
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NO	SHARED OBJECT	NX	STACK CANARY	RELRO	RPATH	RUNPATH	FORTIFY	SYMBOLS STRIPPED
1	lib/armeabi/libtuxrider.so	<p>True info</p> <p>The shared object has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.</p>	<p>True info</p> <p>This shared object has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.</p>	<p>Partial RELRO warning</p> <p>This shared object has partial RELRO enabled. RELRO ensures that the GOT cannot be overwritten in vulnerable ELF binaries. In partial RELRO, the non-PLT part of the GOT section is read only but .got.plt is still writeable. Use the option -z,relro,-z,now to enable full RELRO.</p>	<p>None info</p> <p>The shared object does not have run-time search path or RPATH set.</p>	<p>None info</p> <p>The shared object does not have RUNPATH set.</p>	<p>False warning</p> <p>The shared object does not have any fortified functions. Fortified functions provides buffer overflow checks against glibc's commons insecure functions like strcpy, gets etc. Use the compiler option -D_FORTIFY_SOURCE=2 to fortify functions.</p>	<p>True info</p> <p>Symbols are stripped.</p>

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.
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 not encrypt any data in traffic or does not transmit any data between itself and another trusted IT product.

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
tuxrider.drocin.com	ok	No Geolocation information available.
barlow.server.free.fr	ok	IP: 212.27.63.168 Country: France Region: Ile-de-France City: Paris Latitude: 48.853409 Longitude: 2.348800 View: Google Map
www.extremetuxracer.com	ok	IP: 3.94.41.167 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.043720 Longitude: -77.487488 View: Google Map

EMAILS

EMAIL	FILE
cpicon92@gmail.com	lib/armeabi/libtuxrider.so

TRACKERS

TRACKER	CATEGORIES	URL
Google AdMob	Advertisement	https://reports.exodus-privacy.eu.org/trackers/312

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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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