

ANDROID STATIC ANALYSIS REPORT



InsecureBankv2 (1.0)

File Name:	InsecureBankv2.apk
Package Name:	com.android.insecurebankv2
Scan Date:	July 19, 2025, 2:47 p.m.
App Security Score:	28/100 (CRITICAL RISK)
Grade:	F
Trackers Detection:	3/432

FINDINGS SEVERITY

飛 HIGH	▲ MEDIUM	i INFO	✓ SECURE	@ HOTSPOT
7	9	0	0	1

FILE INFORMATION

File Name: InsecureBankv2.apk

Size: 3.3MB

MD5: 5ee4829065640f9c936ac861d1650ffc

SHA1: 80b53f80a3c9e6bfd98311f5b26ccddcd1bf0a98

SHA256: b18af2a0e44d7634bbcdf93664d9c78a2695e050393fcfbb5e8b91f902d194a4

i APP INFORMATION

App Name: InsecureBankv2

Package Name: com.android.insecurebankv2

Main Activity: com.android.insecurebankv2.LoginActivity

Target SDK: 22 Min SDK: 15 Max SDK:

Android Version Name: 1.0

APP COMPONENTS

Activities: 10 Services: 0 Receivers: 2 Providers: 1

Exported Activities: 4 Exported Services: 0 Exported Receivers: 1 Exported Providers: 1

***** CERTIFICATE INFORMATION

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

X.509 Subject: ST=MA, L=Boston, O=SI, OU=Services, CN=Dinesh Shetty

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2015-07-24 20:37:08+00:00 Valid To: 2040-07-17 20:37:08+00:00

Issuer: ST=MA, L=Boston, O=SI, OU=Services, CN=Dinesh Shetty

Serial Number: 0x6bb4f616 Hash Algorithm: sha256

md5: 6a736d89abb13d7165e7cff905ac928d

sha1: a1bae91a2b1620f6c9dab425e69fc32ba1e97741

sha256: 8092db81ae717486631a1534977def465ee112903e1553d38d41df8abd57a375

sha512: 53770f3f69916f74ddd6e750ae16fd9b23fa5b2c8e9e53bd5a84202d7d7c44a26ede13e6db450ab0c1d9f64534802b88ebb0b4de1da076b62112d9b122cbbd92

Found 1 unique certificates



PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	read/modify/delete		Allows an application to create network sockets.
android.permission.WRITE_EXTERNAL_STORAGE			Allows an application to write to external storage.
android.permission.SEND_SMS	dangerous	send SMS messages	Allows application to send SMS messages. Malicious applications may cost you money by sending messages without your confirmation.
android.permission.USE_CREDENTIALS	DENTIALS dangerous us au creation ac		Allows an application to request authentication tokens.
android.permission.GET_ACCOUNTS	dangerous	list accounts	Allows access to the list of accounts in the Accounts Service.
android.permission.READ_PROFILE	OFILE dangerous read the user's personal profile data		Allows an application to read the user's personal profile data.
android.permission.READ_CONTACTS	dangerous	read contact data	Allows an application to read all of the contact (address) data stored on your phone. Malicious applications can use this to send your data to other people.
android.permission.ACCESS_NETWORK_STATE	coarse (network-		Allows an application to view the status of all networks.
android.permission.ACCESS_COARSE_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.

ক্ল APKID ANALYSIS

FILE	DETAILS		
	FINDINGS	DETAILS	
classes.dex	Anti-VM Code	Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check	
	Compiler	dx (possible dexmerge)	
	Manipulator Found	dexmerge	

△ NETWORK SECURITY

NO SCOPE SEVERI	DESCRIPTION
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CERTIFICATE ANALYSIS

HIGH: 1 | WARNING: 0 | INFO: 1

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.

Q MANIFEST ANALYSIS

HIGH: 6 | WARNING: 7 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION	
1	App can be installed on a vulnerable unpatched Android version Android 4.0.3-4.0.4, [minSdk=15]	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]		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	Activity (com.android.insecurebankv2.PostLogin) is vulnerable to StrandHogg 2.0		Activity is found to be vulnerable to StrandHogg 2.0 task hijacking vulnerability. When vulnerable, it is possible for other applications to place a malicious activity on top of the activity stack of the vulnerable application. This makes the application an easy target for phishing attacks. The vulnerability can be remediated by setting the launch mode attribute to "singleInstance" and by setting an empty taskAffinity (taskAffinity=""). You can also update the target SDK version (22) of the app to 29 or higher to fix this issue at platform level.	

NO	ISSUE	SEVERITY	DESCRIPTION
5	Activity (com.android.insecurebankv2.PostLogin) is not Protected. [android:exported=true]	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.
6	Activity (com.android.insecurebankv2.DoTransfer) is vulnerable to StrandHogg 2.0	high	Activity is found to be vulnerable to StrandHogg 2.0 task hijacking vulnerability. When vulnerable, it is possible for other applications to place a malicious activity on top of the activity stack of the vulnerable application. This makes the application an easy target for phishing attacks. The vulnerability can be remediated by setting the launch mode attribute to "singleInstance" and by setting an empty taskAffinity (taskAffinity=""). You can also update the target SDK version (22) of the app to 29 or higher to fix this issue at platform level.
7	Activity (com.android.insecurebankv2.DoTransfer) is not Protected. [android:exported=true]		An Activity is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
8	Activity (com.android.insecurebankv2.ViewStatement) is vulnerable to StrandHogg 2.0	high	Activity is found to be vulnerable to StrandHogg 2.0 task hijacking vulnerability. When vulnerable, it is possible for other applications to place a malicious activity on top of the activity stack of the vulnerable application. This makes the application an easy target for phishing attacks. The vulnerability can be remediated by setting the launch mode attribute to "singleInstance" and by setting an empty taskAffinity (taskAffinity=""). You can also update the target SDK version (22) of the app to 29 or higher to fix this issue at platform level.
9	Activity (com.android.insecurebankv2.ViewStatement) is not Protected. [android:exported=true]	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.
10	Content Provider (com.android.insecurebankv2.TrackUserContentProvider) is not Protected. [android:exported=true]	warning	A Content Provider is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.

NO	ISSUE	SEVERITY	DESCRIPTION
11	Broadcast Receiver (com.android.insecurebankv2.MyBroadCastReceiver) 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.
12	Activity (com.android.insecurebankv2.ChangePassword) is vulnerable to StrandHogg 2.0		Activity is found to be vulnerable to StrandHogg 2.0 task hijacking vulnerability. When vulnerable, it is possible for other applications to place a malicious activity on top of the activity stack of the vulnerable application. This makes the application an easy target for phishing attacks. The vulnerability can be remediated by setting the launch mode attribute to "singleInstance" and by setting an empty taskAffinity (taskAffinity=""). You can also update the target SDK version (22) of the app to 29 or higher to fix this issue at platform level.
13	Activity (com.android.insecurebankv2.ChangePassword) is not Protected. [android:exported=true]	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.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
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■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

***: ::** ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	7/25	android.permission.INTERNET, android.permission.WRITE_EXTERNAL_STORAGE, android.permission.SEND_SMS, android.permission.GET_ACCOUNTS, android.permission.READ_CONTACTS, android.permission.ACCESS_NETWORK_STATE, android.permission.ACCESS_COARSE_LOCATION
Other Common Permissions	0/44	

Malware Permissions:

Top permissions that are widely abused by known malware.

Other Common Permissions:

Permissions that are commonly abused by known malware.



TRACKER	CATEGORIES	URL
Google AdMob	Advertisement	https://reports.exodus-privacy.eu.org/trackers/312
Google Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/48
Google Tag Manager	Analytics	https://reports.exodus-privacy.eu.org/trackers/105



POSSIBLE SECRETS
"loginscreen_password" : "Password:"
"loginscreen_username" : "Username:"
qfDkyRZiTZGguvBzojuWMEqfl8Qqw5CcMB2eo7wr2iH9X2v+qlFOYNd9v9ffS1x0
gcr/blkg3lQG930U0ghKqsUNHy1ZHgL5GjwbOVxLHrc=
ir8bk+FXNtfVxQqTx81BUFTZKH1YNLABcK0MWI1xDng=
Z17lzPChrfQy4VaYpiQXo0k7JJBjQR06QL2GGTFiGqU=
3mNwt4SZ3Etv5TlhUa/RqouLnZPiat8RAS1ApJt5MxhvflYxahkXg2hSNsePN+7M
SxPdgyHHu8QFxBqcknBJfZgRiWxxWH3utf4/9iPAviI=
6NX7jQU62u42sQ6Bcog9+pwW2loP1J/qqDKEENUU4ZU=
eRIYZ7vwE2B0WWejblqyBziYzuBt9JW024X3YOHX2vY=
FaKwm3zfk+Dhq4JqMMBs2A+ODqwwgRuoVlqzQMyOaB4=
KglVFfxGq7C7ko+bqcJ8DTs8uzcctZAmlSX4/fuAvTk=
2RUillTqy9QCgJa1LFspH1z+fWwdgPAByGujcpTf13CMmYA3W3Y+TBVqeDwkRNkY
AK+A2I0KMMcK37UYcOExFBrt2JDYu9VluAHdYuT1VPLHst51ZSG89jehZq7ujXyH
cs4+HQqNuLJCSjPmayUCjMLdoEEgnhD+nTAnE4ooENEnhW/TpxD13dq38SjFLmkW

POSSIBLE SECRETS
MU3VGnFcvu612xTEKnGZFJFOwurNoeRHIUpI0GCgSFQ=
M/9MnPtaDnNpsJGLBqvtFaALld0ql4JyMOfQfSncPhI=
Y6D/YxzOCnVSZVsavLV5KYCoa8QyT30GvMdLessm7RE=
3oIDJEetfykDk8YoOpv5sOi1YNQ0s4lEIre7qVmQXm2HQzlUqU6cNsaZxD6S8UMW
Fych2TPIScbLJxRIDoDvUow7d3sVUDiaLAvtmgpWr8g7e+3+ib/JMLjt3rf841gO
4xZN7GqinxNwVj4iMqrRi7x6pRkbvrTHS+6N7nioqQ4QK45BALEp7VFtlp3TGnlt
VECoKGlOd10uMKpiLFkK46zikClkVy7m5Sv4lNe3KRY=
EwZMQOzAsSbCW+73vnMc0IIAOIXmhdEPDWA4pBmTQFs=
w41pUAmd6TXdoU2/Z72GoKBjAyNw4B9JmpSTu2qFRaDsI7+5gLrSInCAebksSHto
PrVDFjRPs1s5jwZQRK3+ZFXo9PTi3zDMlRzL0PE43M8=

⋮≡ SCAN LOGS

Timestamp	Event	Error
2025-07-19 14:47:34	Generating Hashes	ОК

2025-07-19 14:47:34	Extracting APK	ОК
2025-07-19 14:47:34	Unzipping	ОК
2025-07-19 14:47:35	Parsing APK with androguard	ОК
2025-07-19 14:47:35	Extracting APK features using aapt/aapt2	ОК
2025-07-19 14:47:35	Getting Hardcoded Certificates/Keystores	ОК
2025-07-19 14:47:36	Parsing AndroidManifest.xml	ОК
2025-07-19 14:47:36	Extracting Manifest Data	ОК
2025-07-19 14:47:36	Manifest Analysis Started	ОК
2025-07-19 14:47:36	Performing Static Analysis on: InsecureBankv2 (com.android.insecurebankv2)	ОК
2025-07-19 14:47:41	Checking for Malware Permissions	ОК

2025-07-19 14:47:41	Fetching icon path	OK
2025-07-19 14:47:42	Library Binary Analysis Started	ОК
2025-07-19 14:47:42	Reading Code Signing Certificate	OK
2025-07-19 14:47:42	Running APKiD 2.1.5	OK
2025-07-19 14:47:44	Updating Trackers Database	OK
2025-07-19 14:47:44	Detecting Trackers	OK
2025-07-19 14:47:45	Decompiling APK to Java with JADX	OK
2025-07-19 14:47:51	Converting DEX to Smali	OK
2025-07-19 14:47:51	Code Analysis Started on - java_source	OK
2025-07-19 14:47:52	Android SBOM Analysis Completed	OK

2025-07-19 14:47:52	Android SAST Completed	OK
2025-07-19 14:47:52	Android API Analysis Started	ОК
2025-07-19 14:47:52	Android API Analysis Completed	ОК
2025-07-19 14:47:53	Android Permission Mapping Started	ОК
2025-07-19 14:47:53	Android Permission Mapping Completed	ОК
2025-07-19 14:47:53	Android Behaviour Analysis Started	ОК
2025-07-19 14:47:54	Android Behaviour Analysis Completed	OK
2025-07-19 14:47:54	Extracting Emails and URLs from Source Code	OK
2025-07-19 14:47:54	Email and URL Extraction Completed	OK
2025-07-19 14:47:54	Extracting String data from APK	OK
2025-07-19 14:47:54	Extracting String data from Code	OK

2025-07-19 14:47:54	Extracting String values and entropies from Code	ОК
2025-07-19 14:47:54	Performing Malware check on extracted domains	ОК
2025-07-19 14:47:54	Saving to Database	ОК

Report Generated by - MobSF v4.4.0

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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