



## ANDROID STATIC ANALYSIS REPORT



● InsecureBankv2 (1.0)

File Name: InsecureBankv2.apk

Package Name: com.android.insecurebankv2

Scan Date: Dec. 4, 2025, 8:11 a.m.

App Security Score: **28/100 (CRITICAL RISK)**

Grade:



Trackers Detection: **3/432**

## FINDINGS SEVERITY

 HIGH	 MEDIUM	 INFO	 SECURE	 HOTSPOT
7	9	0	0	1

## FILE INFORMATION

**File Name:** InsecureBankv2.apk

**Size:** 3.3MB

**MD5:** 5ee4829065640f9c936ac861d1650ffc

**SHA1:** 80b53f80a3c9e6bfd98311f5b26ccddcd1bf0a98

**SHA256:** b18af2a0e44d7634bbcdf93664d9c78a2695e050393fcfbb5e8b91f902d194a4

## 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

Android Version Code: 1

## ■ 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

## ☰ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	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	dangerous	use the authentication credentials of an account	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	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	normal	view network status	Allows an application to view the status of all networks.
android.permission.ACCESS_COARSE_LOCATION	dangerous	coarse (network-based) 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.

## APKID ANALYSIS

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

## NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

## 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.

## 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]	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.
4	Activity (com.android.insecurebankv2.PostLogin) 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.

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]	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.
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	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.
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
----	-------	----------	-----------	-------

## █ 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.

# █████ TRACKERS

TRACKER	CATEGORIES	URL
Google AdMob	Advertisement	<a href="https://reports.exodus-privacy.eu.org/trackers/312">https://reports.exodus-privacy.eu.org/trackers/312</a>
Google Analytics	Analytics	<a href="https://reports.exodus-privacy.eu.org/trackers/48">https://reports.exodus-privacy.eu.org/trackers/48</a>
Google Tag Manager	Analytics	<a href="https://reports.exodus-privacy.eu.org/trackers/105">https://reports.exodus-privacy.eu.org/trackers/105</a>

# 🔑 HARDCODED SECRETS

## POSSIBLE SECRETS

"loginscreen\_password" : "Password:"

"loginscreen\_username" : "Username:"

KgIVFfxGq7C7ko+bqcJ8DTs8uzcctZAmISX4/fuAvTk=

Fych2TPIScbLjxRDoDvUow7d3sVUDiaLAvtmgpWr8g7e+3+ib/JMLjt3rf841gO

MU3VGnFcuvu612xTEKnGZFJFOwurNoeRHlUpI0GCgSFQ=

eRIYZ7vwE2B0WWejblqyBziYzuBt9JW024X3YOHX2vY=

FaKwm3zfk+Dhq4jqMMBs2A+ODqwwgRuoVlqzQMyOaB4=

PrVDFjRPs1s5jwZQRK3+ZFXo9PTi3zDMIRzL0PE43M8=

3oIDJEetfykDk8YoOpv5sOiYNQ0s4lElre7qVmQXm2HQzlUqU6cNsaZxD6S8UMW

4xZN7GqinxNwVj4iMqrRi7x6pRkbvrTHS+6N7nioqQ4QK45BALEp7VFtlp3TGnlt

M/9MnPtaDnNpsJGLBqvtFaALld0ql4JyMOfQfSncPhl=

SxPdgyHHu8QFxBqcknBjfZgRiWxxWH3utf4/9iPAvl=

qfDkyRZiTZGguvBzojuWMEqfl8Qqw5CcMB2eo7wr2iH9X2v+qIFOYNd9v9ffS1x0

Z17lzPChrfQy4VaYpiQXo0k7JJBjQR06QL2GGTFiGqU=

gcr/blkg3lQG930U0ghKqsUNHy1ZHgL5GjwbOVxLHrc=

## POSSIBLE SECRETS

Y6D/YxzOCnVSZVsavLV5KYC oa8QyT30GvMdLessm7RE=

AK+A2I0KMMcK37UYcOExFBrt2JDYu9VluAHdYuT1VPLHst51ZSG89jehZq7ujXyH

3mNwt4SZ3Et v5TIhUa/RqouLnZPiat8RAS1ApJt5MxhvflYxahkXg2hSNsePN+7M

w41pUAm d6TXdoU2/Z72GoKBjAyNw4B9JmpSTu2qFRaDsI7+5gLrSInCAebksSHto

2RUil lTqy9QCgJa1LFspH1z+fWwdgPAByGujcpTf13CMmYA3W3Y+TBVqeDwkRNkY

EwZMQOzAsSbCW+73vnMc0IIAOIXmhdEPDWA4pBmTQFs=

ir8bk+FXNtfVxQqTx81BUFTZKH1YNLABcK0MWI1xDng=

VECoKGIOd10uMKpiLFkK46zikCIkVy7m5Sv4lNe3KRY=

cs4+HQqNuLJCSjPmayUCjMLdoEEgnhD+nTAnE4ooENEhW/TpxD13dq38SjFLmkW

6NX7jQU62u42sQ6Bcog9+pwW2loP1J/qqDKEENUU4ZU=

## ≡ SCAN LOGS

Timestamp	Event	Error
2025-12-04 08:11:22	Generating Hashes	OK

2025-12-04 08:11:22	Extracting APK	OK
2025-12-04 08:11:22	Unzipping	OK
2025-12-04 08:11:23	Parsing APK with androguard	OK
2025-12-04 08:11:23	Extracting APK features using aapt/aapt2	OK
2025-12-04 08:11:24	Getting Hardcoded Certificates/Keystores	OK
2025-12-04 08:11:31	Parsing AndroidManifest.xml	OK
2025-12-04 08:11:31	Extracting Manifest Data	OK
2025-12-04 08:11:31	Manifest Analysis Started	OK
2025-12-04 08:11:31	Performing Static Analysis on: InsecureBankv2 (com.android.insecurebankv2)	OK
2025-12-04 08:11:33	Fetching Details from Play Store: com.android.insecurebankv2	OK

2025-12-04 08:11:33	Checking for Malware Permissions	OK
2025-12-04 08:11:33	Fetching icon path	OK
2025-12-04 08:11:33	Library Binary Analysis Started	OK
2025-12-04 08:11:33	Reading Code Signing Certificate	OK
2025-12-04 08:11:34	Running APKiD 3.0.0	OK
2025-12-04 08:11:39	Detecting Trackers	OK
2025-12-04 08:11:43	Decompiling APK to Java with JADX	OK
2025-12-04 08:13:31	Converting DEX to Smali	OK
2025-12-04 08:13:31	Code Analysis Started on - java_source	OK
2025-12-04 08:13:33	Android SBOM Analysis Completed	OK
2025-12-04 08:13:33	Android SAST Completed	OK

2025-12-04 08:13:33	Android API Analysis Started	OK
2025-12-04 08:13:34	Android API Analysis Completed	OK
2025-12-04 08:13:35	Android Permission Mapping Started	OK
2025-12-04 08:13:36	Android Permission Mapping Completed	OK
2025-12-04 08:13:36	Android Behaviour Analysis Started	OK
2025-12-04 08:13:36	Android Behaviour Analysis Completed	OK
2025-12-04 08:13:37	Extracting Emails and URLs from Source Code	OK
2025-12-04 08:13:37	Email and URL Extraction Completed	OK
2025-12-04 08:13:37	Extracting String data from APK	OK
2025-12-04 08:13:37	Extracting String data from Code	OK
2025-12-04 08:13:37	Extracting String values and entropies from Code	OK

2025-12-04 08:13:46	Performing Malware check on extracted domains	OK
2025-12-04 08:13:46	Saving to Database	OK

---

## Report Generated by - MobSF v4.4.3

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.

© 2025 Mobile Security Framework - MobSF | [Ajin Abraham](#) | [OpenSecurity](#).