ANDROID STATIC ANALYSIS REPORT

app_icon

OTP (1.0)

File Name:	OTP-First.apk
Package Name:	com.example.otp
Scan Date:	Feb. 1, 2025, 7:32 a.m.
App Security Score:	43/100 (MEDIUM RISK)
Grade:	B
Trackers Detection:	1/432

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT
3	8	1	1	0

FILE INFORMATION

File Name: OTP-First.apk
Size: 8.54MB
MD5: a58a249641f65e22a13f8591da31151c
SHA1: aa1eac9a5e0a359f74c9b3c507e25c1b6ab0dec8
SHA256: 28c38e2e30c4c4adc7cf037666a43dc01504a1787fb73c5a53eebf903c696b5f

APP INFORMATION

App Name: OTP
Package Name: com.example.otp
Main Activity: com.example.otp.MainActivity
Target SDK: 34
Min SDK: 23
Max SDK:
Android Version Name: 1.0

Android Version Code: 1

APP COMPONENTS

Activities: 7
Services: 5
Receivers: 2
Providers: 2
Exported Activities: 2
Exported Services: 1
Exported Receivers: 1
Exported Providers: 0

CERTIFICATE INFORMATION

Binary is signed
v1 signature: True
v2 signature: True
v3 signature: False
v4 signature: False
X.509 Subject: CN=Android Debug, O=Android, C=US
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2023-03-17 11:57:10+00:00
Valid To: 2053-03-09 11:57:10+00:00
Issuer: CN=Android Debug, O=Android, C=US
Serial Number: 0x1
Hash Algorithm: sha256
md5: b1ffe12f610d27c72325814ff6c50c1d
sha1: b693c155a18f4a3aaf067a930e4a56fa5c4da2b0
sha256: 6d999ff491193a085d0e8783e17f7f2915f9c2c4dbbdbedd2fd59d2d28aab3df
sha512: d9670c72ffe284279bd7eca276164bab11d707195c3f7efdff4e62368840d2557538d9ecc936a2c4dd92584e3b8dd0c7e7f15c5d0557f08e264492a95da84efa
PublicKey Algorithm: rsa
Bit Size: 2048
Fingerprint: 170f558d74c68c1ff7918ad0e1bdba88b1ae01e5d6cbd30f57b0bb2d784e4f3d
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.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
com.google.android.gms.permission.AD_ID	normal	application shows advertisements	This app uses a Google advertising ID and can possibly serve advertisements.
android.permission.ACCESS_ADSERVICES_ATTRIBUTION	normal	allow applications to access advertising service attribution	This enables the app to retrieve information related to advertising attribution, which can be used for targeted advertising purposes. App can gather data about how users interact with ads, such as clicks or impressions, to measure the effectiveness of advertising campaigns.
android.permission.ACCESS_ADSERVICES_AD_ID	normal	allow app to access the device's advertising ID.	This ID is a unique, user-resettable identifier provided by Google's advertising services, allowing apps to track user behavior for advertising purposes while maintaining user privacy.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.

PERMISSION	STATUS	INFO	DESCRIPTION
com.google.android.providers.gsf.permission.READ_GSERVICES	unknown	Unknown permission	Unknown permission from android reference
com.example.otp.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

APKID ANALYSIS

FILE	DETAILS
classes3.dex	FINDINGS: Compiler — DETAILS: r8 without marker (suspicious)
classes2.dex	FINDINGS: Compiler — DETAILS: dx

<table>
<tr><th>FILE</th><th>DETAILS</th></tr>
<tr><td>classes.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.FINGERPRINT check
Build.MODEL check
Build.MANUFACTURER check
Build.TAGS check</td></tr>
<tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr>
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</td></tr>
<tr><td>classes4.dex</td><td>
<table>
<tr><th>FINDINGS</th><th>DETAILS</th></tr>
<tr><td>Anti-VM Code</td><td>Build.MANUFACTURER check
Build.TAGS check</td></tr>
<tr><td>Compiler</td><td>r8 without marker (suspicious)</td></tr>
</table>
</td></tr>
</table>

BROWSABLE ACTIVITIES

ACTIVITY	INTENT
com.google.firebase.auth.internal.GenericIdpActivity	Schemes: genericidp://, Hosts: firebase.auth, Paths: /,

ACTIVITY	INTENT
com.google.firebase.auth.internal.RecaptchaActivity	Schemes: recaptcha://, Hosts: firebase.auth, Paths: /,

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

CERTIFICATE ANALYSIS

HIGH: 1 | WARNING: 1 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
Application vulnerable to Janus Vulnerability	warning	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 signed with debug certificate	high	Application signed with a debug certificate. Production application must not be shipped with a debug certificate.

MANIFEST ANALYSIS

HIGH: 2 | WARNING: 5 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable upatched Android version Android 6.0-6.0.1, [minSdk=23]	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.google.firebase.auth.internal.GenericIdpActivity) 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.
5	Activity (com.google.firebase.auth.internal.RecaptchaActivity) 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.

NO	ISSUE	SEVERITY	DESCRIPTION
6	Service (com.google.android.gms.auth.api.signin.RevocationBoundService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.auth.api.signin.permission.REVOCATION_NOTIFICATION [android:exported=true]	warning	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.
7	Broadcast Receiver (androidx.profileinstaller.ProfileInstallReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [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. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

</> CODE ANALYSIS

HIGH: **0** | WARNING: **0** | INFO: **1** | SECURE: **0** | SUPPRESSED: **0**

NO	ISSUE	SEVERITY	STANDARDS	FILES

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/example/otp/MainActivity.java

NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

FIREBASE DATABASES ANALYSIS

TITLE	SEVERITY	DESCRIPTION
Firebase Remote Config disabled	secure	Firebase Remote Config is disabled for https://firebaseremoteconfig.googleapis.com/v1/projects/1083717578381/namespaces/firebase:fetch?key=AIzaSyBDcvcXItXkdAc1teKFCStIfx1iABb8flY. This is indicated by the response: {'state': 'NO_TEMPLATE'}

ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	3/25	android.permission.INTERNET, android.permission.ACCESS_NETWORK_STATE, android.permission.WAKE_LOCK

TYPE	MATCHES	PERMISSIONS
Other Common Permissions	2/44	com.google.android.gms.permission.AD_ID, com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE

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 Firebase Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/49

HARDCODED SECRETS

POSSIBLE SECRETS
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"google_api_key" : "AIzaSyBDcvcXItXkdAc1teKFCStIfx1iABb8flY"
"google_crash_reporting_api_key" : "AIzaSyBDcvcXItXkdAc1teKFCStIfx1iABb8flY"

POSSIBLE SECRETS
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Contrasenya"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Adgangskode"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Adgangsnøgle"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "گذرواژه"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "گذرکلید"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "□□□□□"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "□□□□"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "პაროლი"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "■■■■■■"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "■■■■■"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "■■■■■■■■■■■"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "■■■■■■■■■■"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Passord"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Tilgangsnøkkel"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Пароль"

POSSIBLE SECRETS
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Passwort"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Wagwoord"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Wagwoordsleutel"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Парола"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Salasana"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Avainkoodi"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"

POSSIBLE SECRETS
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Лозинка"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Heslo"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Пароль"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Contrasinal"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Wachtwoord"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Toegangssleutel"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Hasło"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Klucz"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Geslo"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"

POSSIBLE SECRETS
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Sandi"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "□□□□"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "□□□"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "ລະຫັດຜ່ານ"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "ກະແຈຜ່ານ"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Parolă"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Fjalëkalimi"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Zaporka"

POSSIBLE SECRETS
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
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"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Лозинка"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Lozinka"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Şifre"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "[redacted]"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "[redacted]"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Lozinka"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Heslo"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Contraseña"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Aðgangsorð"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Aðgangslykill"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Parool"

POSSIBLE SECRETS
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Pääsuvõti"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Slaptažodis"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Pasahitza"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Sarbide-gakoa"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "■■■■■■■"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "■■■■■"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Jelszó"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Azonosítókulcs"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Пароль"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Iphasiwedi"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Parole"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Lösenord"

POSSIBLE SECRETS
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Nyckel"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "סיסמה"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Nenosiri"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Գաղտնաբառ"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Անցաբառ"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Сырсөз"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "■■■■■□■□"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "■□□■■■■□■□■■■"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Parol"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Parol"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Kod"
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"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
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"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "□□"

POSSIBLE SECRETS
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"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "□□□□"
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"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Contraseña"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Palavra-passe"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "□□"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "□□□□"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Senha"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
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"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"

POSSIBLE SECRETS
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
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POSSIBLE SECRETS
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808182838485868788898a8b8c8d8e8f909192939495969798999a9b9c9d9e9f

SCAN LOGS

Timestamp	Event	Error
2025-02-01 07:32:36	Generating Hashes	OK
2025-02-01 07:32:37	Extracting APK	OK

2025-02-01 07:32:37	Unzipping	OK
2025-02-01 07:32:37	Parsing APK with androguard	OK
2025-02-01 07:32:40	Extracting APK features using aapt/aapt2	OK
2025-02-01 07:32:40	Getting Hardcoded Certificates/Keystores	OK
2025-02-01 07:32:50	Parsing AndroidManifest.xml	OK
2025-02-01 07:32:50	Extracting Manifest Data	OK
2025-02-01 07:32:50	Manifest Analysis Started	OK
2025-02-01 07:32:50	Performing Static Analysis on: OTP (com.example.otp)	OK
2025-02-01 07:32:50	Fetching Details from Play Store: com.example.otp	OK
2025-02-01 07:32:50	Checking for Malware Permissions	OK

2025-02-01 07:32:50	Fetching icon path	OK
2025-02-01 07:32:50	Library Binary Analysis Started	OK
2025-02-01 07:32:50	Reading Code Signing Certificate	OK
2025-02-01 07:32:53	Running APKiD 2.1.5	OK
2025-02-01 07:32:59	Detecting Trackers	OK
2025-02-01 07:33:10	Decompiling APK to Java with JADX	OK
2025-02-01 07:35:06	Converting DEX to Smali	OK
2025-02-01 07:35:06	Code Analysis Started on - java_source	OK
2025-02-01 07:35:10	Android SBOM Analysis Completed	OK
2025-02-01 07:35:58	Android SAST Completed	OK

2025-02-01 07:35:58	Android API Analysis Started	OK
2025-02-01 07:36:36	Android API Analysis Completed	OK
2025-02-01 07:36:38	Android Permission Mapping Started	OK
2025-02-01 07:36:46	Android Permission Mapping Completed	OK
2025-02-01 07:36:47	Android Behaviour Analysis Started	OK
2025-02-01 07:37:27	Android Behaviour Analysis Completed	OK
2025-02-01 07:37:27	Extracting Emails and URLs from Source Code	OK
2025-02-01 07:37:27	Email and URL Extraction Completed	OK
2025-02-01 07:37:27	Extracting String data from APK	OK
2025-02-01 07:37:28	Extracting String data from Code	OK
2025-02-01 07:37:28	Extracting String values and entropies from Code	OK

2025-02-01 07:37:41	Performing Malware check on extracted domains	OK
2025-02-01 07:37:41	Saving to Database	OK

Report Generated by - MobSF v4.3.0

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.