

ANDROID STATIC ANALYSIS REPORT

app_icon

OTP (1.0)

File Name:	OTP-Rev1.apk
Package Name:	com.example.otp
Scan Date:	Feb. 1, 2025, 4:48 a.m.
App Security Score:	67/100 (LOW RISK)
Grade:	A
Trackers Detection:	1/432

FINDINGS SEVERITY

≟ HIGH	▲ MEDIUM	i INFO	✓ SECURE	◎ HOTSPOT
0	3	1	1	0

FILE INFORMATION

File Name: OTP-Rev1.apk

Size: 15.79MB

MD5: f2ee6ba42862cc4455e14d088a93140b

SHA1: eec92b0ce6833aa2cdc672e62649efdf283d29a6

SHA256: c0f84011aebeeb9ec5579ddb2b99ec1b8e3ab4517b30d6567cecba6a91511be8

i APP INFORMATION

App Name: OTP

Package Name: com.example.otp

Main Activity: com.example.otp.MainActivity

Target SDK: 34 Min SDK: 29 Max SDK:

Android Version Name: 1.0

APP COMPONENTS

Activities: 7
Services: 5
Receivers: 2
Providers: 2

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

***** CERTIFICATE INFORMATION

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

X.509 Subject: O=Udayana

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2025-02-01 04:45:32+00:00 Valid To: 2050-01-26 04:45:32+00:00

Issuer: O=Udayana Serial Number: 0x1 Hash Algorithm: sha256

md5: 1681f0611c40b7c21289b91fe2d7f3bc

sha1: de2330dcd6d0c149f5559c9aedcc97c4d8148639

sha256: acdc1f2e083e35cad64d112196cab00ad55138f19133420b93c517768b0e9da8

sha512: b6a8c6e27a1b6e7c90bae7ee4667b33c95305f9c641ff7e62766b97cf24c8cf51e84f7164d0291f275fce9e9aee9a371b3ebddd78b35c75774d6022725302d9b

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: ae5cb390e7d1be1b1c51122f3f56d51706361365ede8827f92e2f126373bf9ad

Found 1 unique certificates

E 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.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	normal	permission defined by google	A custom permission defined by Google.
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		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.

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

命 APKID ANALYSIS

FILE	DETAILS				
	FINDINGS	DETAILS			
	yara_issue	yara issue - dex file recognized by apkid but not yara module			
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MANUFACTURER check Build.TAGS check			
	Compiler	unknown (please file detection issue!)			

FILE	DETAILS			
	FINDINGS	DETAILS		
	yara_issue	yara issue - dex file recognized by apkid but not yara module		
classes2.dex	Anti-VM Code	Build.MANUFACTURER check Build.TAGS check		
	Compiler	unknown (please file detection issue!)		

BROWSABLE ACTIVITIES

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



CERTIFICATE ANALYSIS

HIGH: 0 | WARNING: 0 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate

Q MANIFEST ANALYSIS

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

NO	ISSUE	SEVERITY	DESCRIPTION
1	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.



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

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.ja va

■ NIAP ANALYSIS v1.3

N	10	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=AlzaSyBDcvcXltXkdAc1teKFCStlfx1iABb8flY. 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.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE, com.google.android.gms.permission.AD_ID

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 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": "AlzaSyBDcvcXltXkdAc1teKFCStlfx1iABb8flY" "google_crash_reporting_api_key": "AlzaSyBDcvcXltXkdAc1teKFCStlfx1iABb8flY"

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" : "گذر کلید"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "□□□□□"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "DDDD"
"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" : "
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "■■■■-■■"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Wagwoord"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Wagwoordsleutel"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Парола"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Salasana"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Avainkoodi"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : " """ "" """ "" "" "" "" ""

POSSIBLE SECRETS
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"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "■■■■■■■"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Лозинка"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Heslo"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Пароль"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Contrasinal"
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"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
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"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "
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"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Sandi"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "
"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" : "
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "■■■■■"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "■■■■■"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Лозинка"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Lozinka"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Şifre"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "
"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" : " DD D D D D D D D D D D D D D D D D
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Parol"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Parol"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Kod"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "□□"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "□□"

POSSIBLE SECRETS
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "□□"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "□□□□"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Senha"
"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"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
"android.credentials.TYPE_PASSWORD_CREDENTIAL" : "Password"

POSSIBLE SECRETS
"androidx.credentials.TYPE_PUBLIC_KEY_CREDENTIAL" : "Passkey"
115792089210356248762697446949407573530086143415290314195533631308867097853951
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39402006196394479212279040100143613805079739270465446667946905279627659399113263569398956308152294913554433653942643
bae8e37fc83441b16034566b
5ac635d8aa3a93e7b3ebbd55769886bc651d06b0cc53b0f63bce3c3e27d2604b
11839296a789a3bc0045c8a5fb42c7d1bd998f54449579b446817afbd17273e662c97ee72995ef42640c550b9013fad0761353c7086a272c24088be94769fd16650
c6858e06b70404e9cd9e3ecb662395b4429c648139053fb521f828af606b4d3dbaa14b5e77efe75928fe1dc127a2ffa8de3348b3c1856a429bf97e7e31c2e5bd66
4fe342e2fe1a7f9b8ee7eb4a7c0f9e162bce33576b315ececbb6406837bf51f5
68647976601306097149819007990813932172694353001433054093944634591855431833976553942450577463332171975329639963713633211138647686124403 80340372808892707005449
a0784d7a4716f3feb4f64e7f4b39bf04
39402006196394479212279040100143613805079739270465446667948293404245721771496870329047266088258938001861606973112319
aa87ca22be8b05378eb1c71ef320ad746e1d3b628ba79b9859f741e082542a385502f25dbf55296c3a545e3872760ab7
af60eb711bd85bc1e4d3e0a462e074eea428a8
b3312fa7e23ee7e4988e056be3f82d19181d9c6efe8141120314088f5013875ac656398d8a2ed19d2a85c8edd3ec2aef

POSSIBLE SECRETS

68647976601306097149819007990813932172694353001433054093944634591855431833976560521225596406614545549772963113914808580371219879997166 43812574028291115057151

36864200e0eaf5284d884a0e77d31646

23456789abcdefghjkmnpqrstvwxyz

16a09e667f3bcc908b2fb1366ea957d3e3adec17512775099da2f590b0667322a

6b17d1f2e12c4247f8bce6e563a440f277037d812deb33a0f4a13945d898c296

3617de4a96262c6f5d9e98bf9292dc29f8f41dbd289a147ce9da3113b5f0b8c00a60b1ce1d7e819d7a431d7c90ea0e5f

115792089210356248762697446949407573529996955224135760342422259061068512044369

808182838485868788898a8b8c8d8e8f909192939495969798999a9b9c9d9e9f

:≡ SCAN LOGS

Timestamp	Event	Error
2025-02-01 04:48:13	Generating Hashes	ОК
2025-02-01 04:48:15	Extracting APK	ОК

2025-02-01 04:48:15	Unzipping	ОК
2025-02-01 04:48:19	Parsing APK with androguard	ОК
2025-02-01 04:48:33	Extracting APK features using aapt/aapt2	ОК
2025-02-01 04:48:35	Getting Hardcoded Certificates/Keystores	ОК
2025-02-01 04:48:41	Parsing AndroidManifest.xml	ОК
2025-02-01 04:48:41	Extracting Manifest Data	ОК
2025-02-01 04:48:41	Manifest Analysis Started	ОК
2025-02-01 04:48:41	Performing Static Analysis on: OTP (com.example.otp)	ОК
2025-02-01 04:48:41	Fetching Details from Play Store: com.example.otp	ОК
2025-02-01 04:48:41	Checking for Malware Permissions	ОК

2025-02-01 04:48:41	Fetching icon path	ОК
2025-02-01 04:48:41	Library Binary Analysis Started	ОК
2025-02-01 04:48:41	Reading Code Signing Certificate	ОК
2025-02-01 04:48:42	Running APKiD 2.1.5	ОК
2025-02-01 04:48:43	Detecting Trackers	ОК
2025-02-01 04:48:48	Decompiling APK to Java with JADX	ОК
2025-02-01 04:50:07	Converting DEX to Smali	OK
2025-02-01 04:50:07	Code Analysis Started on - java_source	ОК
2025-02-01 04:50:09	Android SBOM Analysis Completed	ОК
2025-02-01 04:50:22	Android SAST Completed	ОК

2025-02-01 04:50:22	Android API Analysis Started	ОК
2025-02-01 04:50:28	Android API Analysis Completed	ОК
2025-02-01 04:50:29	Android Permission Mapping Started	ОК
2025-02-01 04:51:06	Android Permission Mapping Completed	ОК
2025-02-01 04:51:07	Android Behaviour Analysis Started	ОК
2025-02-01 04:51:15	Android Behaviour Analysis Completed	ОК
2025-02-01 04:51:15	Extracting Emails and URLs from Source Code	ОК
2025-02-01 04:51:15	Email and URL Extraction Completed	ОК
2025-02-01 04:51:15	Extracting String data from APK	OK
2025-02-01 04:51:16	Extracting String data from Code	ОК
2025-02-01 04:51:16	Extracting String values and entropies from Code	ОК

2025-02-01 04:51:23	Performing Malware check on extracted domains	ОК
2025-02-01 04:51:24	Saving to Database	ОК

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.

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