



ANDROID STATIC ANALYSIS REPORT



COVID19 CAT (Failed)

| | |
|---------------------|-----------------------|
| File Name: | COVID19 CAT 1.0.2.apk |
| Package Name: | Failed |
| Average CVSS Score: | 6.1 |
| App Security Score: | 30/100 (HIGH RISK) |
| Trackers Detection: | 3/285 |

FILE INFORMATION

File Name: COVID19 CAT 1.0.2.apk

Size: 3.23MB

MD5: da64943017606d5e9de4b421ba7b66dc

SHA1: fcbf08d9c4f72aca322ef17450e35193900c3b45

SHA256: 3d0f7b85eb2faade388960aa2e4d8243547755cc603bc5aaafbeb27844cb3914

APP INFORMATION

App Name: COVID19 CAT

Package Name: Failed

Main Activity:

Target SDK:

Min SDK:

Max SDK:

Android Version Name: Failed

Android Version Code: Failed

APP COMPONENTS

Activities: 0

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: True

v3 signature: True

Found 1 unique certificates

Subject: C=ES, ST=Catalunya, L=Barcelona, O=Generalitat de Catalunya, OU=Direcció General d'Atenció Ciutadana i Difusió, CN=Ricard Mateu

Signature Algorithm: rsassa_pkcs1v15

Valid From: 2012-07-17 09:54:14+00:00

Valid To: 2067-04-20 09:54:14+00:00

Issuer: C=ES, ST=Catalunya, L=Barcelona, O=Generalitat de Catalunya, OU=Direcció General d'Atenció Ciutadana i Difusió, CN=Ricard Mateu

Serial Number: 0x50053646

Hash Algorithm: sha1

md5: 4c85af6630cf5ed6a3b926d0ac3d2872

sha1: 2b9ac28b45b89adf1d7ed40635dba24666879f30

sha256: 2ab5c95ae49e6edcb1fb7dac8cb563887f76d2f26376ab9b512d6bde78f43de0

sha512:

8dbf7331cb3476bf9fe0e950b9712b71a78e0aae0d088ceb8331b98c65c6bcfd0e48dadf16670a9f54d9ca458b4a59df9d99247551ec7543a2a8603fdf34c7fa

PublicKey Algorithm: rsa
Bit Size: 2048
Fingerprint: e51aa1e0bdd84e9e1c15db4230c39f3f78255042bb7e45eddc21dbe2da81a934

Certificate Status: **Warning**
Description: The app is signed with SHA1withRSA. SHA1 hash algorithm is known to have collision issues.The manifest indicates SHA256withRSA is in use. Please verify this manually.

APKID ANALYSIS

| FILE | DETAILS | |
|-------------|--------------|--|
| classes.dex | FINDINGS | DETAILS |
| | Anti-VM Code | Build.MODEL check Build.MANUFACTURER check network operator name check |
| | Compiler | dx |

MANIFEST ANALYSIS

| ISSUE | SEVERITY | DESCRIPTION |
|-------|----------|-------------|
|-------|----------|-------------|

CODE ANALYSIS

| ISSUE | SEVERITY | STANDARDS | FILES |
|-------|----------|-----------|---|
| | | | cat/gencat/mobi/StopCovid19Cat/ main/f.java a/n/ba.java a/n/da.java a/n/V.java a/n/ca.java a/n/ea.java a/n/U.java a/a/a/a/a.java a/a/c/g.java a/f/g/b.java a/f/a/a.java a/f/a/a/b.java a/f/a/a/h.java a/f/f/a.java a/f/h/C0056b.java a/f/h/v.java a/f/h/e.java a/f/h/g.java a/f/h/t.java |

| ISSUE | SEVERITY | STANDARDS | FILES |
|---|----------|---|---|
| The App logs information. Sensitive information should never be logged. | info | CVSS V2: 7.5 (high) CWE: CWE-532 - Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3 | a/f/b/b.java a/f/b/c.java a/f/b/f.java a/f/b/k.java a/o/a/a/k.java a/h/a/c.java a/j/a/a.java a/k/a/b.java a/l/a/b.java c/c/a/a/a/a/b.java c/c/a/a/a/a/c.java c/c/a/a/a/a/a.java c/c/a/a/c/d/m.java c/c/a/b/a/h.java c/c/a/b/b/a.java com/mubiquo/library/mmm/B.java com/mubiquo/library/mmm/C0600i.java com/mubiquo/library/mmm/w.java com/mubiquo/library/mmm/z.java com/mubiquo/library/mmm/AlarmReceiver.java com/mubiquo/library/mmm/O.java com/mubiquo/library/mmm/v.java com/mubiquo/library/mmm/C.java com/mubiquo/library/mmm/C0592a.java com/mubiquo/library/mmm/C0597f.java com/mubiquo/library/mmm/H.java com/mubiquo/library/mmm/D.java com/mubiquo/library/mmm/q.java com/mubiquo/library/mmm/C0607p.java com/mubiquo/library/mmm/BackgroundFetchIntentService.java com/mubiquo/library/mmm/l.java com/mubiquo/library/mmm/j.java com/mubiquo/library/mmm/s.java com/mubiquo/library/mmm/C0593b.java com/mubiquo/library/mmm/F.java com/mubiquo/library/mmm/G.java com/mubiquo/library/mmm/BootCompleteBroadcastReceiver.java com/mubiquo/library/mmm/C0604m.java com/mubiquo/library/mmm/C0601j.java com/mubiquo/library/mmm/K.java com/mubiquo/library/mmm/C0598e.java |

| ISSUE | SEVERITY | STANDARDS | FILES |
|-------|----------|-----------|--|
| | | | com/mubiquo/library/mmm/u.java com/mubiquo/library/mmm/y.java com/mubiquo/library/mmm/C0594c.java com/mubiquo/library/mmm/C0602k.java com/mubiquo/library/mmm/L.java com/mubiquo/library/mmm/C0603l.java com/mubiquo/library/mmm/M.java com/mubiquo/library/mmm/C0595d.java com/mubiquo/library/mmm/x.java com/mubiquo/library/mmm/A.java com/mubiquo/library/mmm/LocationProviderIntentService.java com/mubiquo/library/mmm/t.java com/mubiquo/library/lottusse/n.java com/mubiquo/library/lottusse/q.java com/mubiquo/library/lottusse/i.java com/mubiquo/library/lottusse/r.java com/microsoft/appcenter/utils/a.java b/a/a/a/d/h.java b/a/a/a/d/g.java |
| | | | a/n/ia.java a/n/ja.java a/n/M.java a/f/a/a/b.java a/f/h/C.java a/f/h/a/b.java a/f/h/a/c.java a/d/h.java a/d/d.java a/d/i.java a/b/a/b/b.java c/c/a/b/a/h.java c/c/a/b/a/i.java d/C0621n.java d/w.java d/C0608a.java d/u.java d/C0615h.java d/y.java d/L.java d/M.java d/a/e/e.java d/a/e/a.java com/microsoft/appcenter/crashes/a/a/b.java com/microsoft/appcenter/crashes/a/a/c.java |

| ISSUE | SEVERITY | STANDARDS | com/microsoft/appcenter/crashes File.java com/microsoft/appcenter/crashes |
|--|----------------|--|--|
| <p>This App uses Java Hash Code. It's a weak hash function and should never be used in Secure Crypto Implementation.</p> | <p>warning</p> | <p>CVSS V2: 2.3 (low) CWE: CWE-327 - Use of a Broken or Risky Cryptographic Algorithm OWASP MASVS: MSTG-CRYPTO-4</p> | <p>/a/a/e.java com/microsoft/appcenter/crashes /a/a/f.java com/microsoft/appcenter/crashes /a/a/g.java com/microsoft/appcenter/crashes /a/a/a.java com/microsoft/appcenter/http/k.j ava com/microsoft/appcenter/http/HttpException.java com/microsoft/appcenter/b/a/b.java com/microsoft/appcenter/b/a/c.java com/microsoft/appcenter/b/a/h.java com/microsoft/appcenter/b/a/e.java com/microsoft/appcenter/b/a/i.java com/microsoft/appcenter/b/a/f.java com/microsoft/appcenter/b/a/a.java com/microsoft/appcenter/b/a/c/b.java com/microsoft/appcenter/b/a/c/c.java com/microsoft/appcenter/b/a/c/d.java com/microsoft/appcenter/b/a/c/e.java com/microsoft/appcenter/b/a/c/f.java com/microsoft/appcenter/b/a/c/a.java com/microsoft/appcenter/b/a/b/n.java com/microsoft/appcenter/b/a/b/c.java com/microsoft/appcenter/b/a/b/h.java com/microsoft/appcenter/b/a/b/d.java com/microsoft/appcenter/b/a/b/e.java com/microsoft/appcenter/b/a/b/i.java com/microsoft/appcenter/b/a/b/j.java com/microsoft/appcenter/b/a/b/f.java com/microsoft/appcenter/b/a/b/g.java com/microsoft/appcenter/b/a/b/l.java com/microsoft/appcenter/b/a/b/m.java com/microsoft/appcenter/b/a/b/a.java</p> |

| ISSUE | SEVERITY | STANDARDS | com/microsoft/appcenter/analytic Files com/microsoft/appcenter/analytic s/b/a/a.java |
|--|----------|---|---|
| SHA-1 is a weak hash known to have hash collisions. | high | CVSS V2: 5.9 (medium) CWE: CWE-327 - Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4 | com/mubiquo/library/mmm/K.java a |
| App uses SQLite Database and execute raw SQL query. Untrusted user input in raw SQL queries can cause SQL Injection. Also sensitive information should be encrypted and written to the database. | high | CVSS V2: 5.9 (medium) CWE: CWE-89 - Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality | com/mubiquo/library/mmm/K.java a com/mubiquo/library/mmm/L.java a com/microsoft/appcenter/utills/d/d.java com/microsoft/appcenter/persistence/a.java |
| Files may contain hardcoded sensitive informations like usernames, passwords, keys etc. | high | CVSS V2: 7.4 (high) CWE: CWE-312 - Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14 | com/microsoft/appcenter/a/i.java |
| The App uses an insecure Random Number Generator. | high | CVSS V2: 7.5 (high) CWE: CWE-330 - Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6 | com/microsoft/appcenter/http/java |

DOMAIN MALWARE CHECK

| DOMAIN | STATUS | GEOLOCATION |
|-------------------------------|--------|---|
| s3.amazonaws.com | good | IP: 52.216.136.214 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.04372 Longitude: -77.487488 View: Google Map |
| pagead2.googlesyndication.com | good | IP: 172.217.167.98 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |

| DOMAIN | STATUS | GEOLOCATION |
|----------------------------------|--------|---|
| mmm.mubiquo.com | good | IP: 52.0.78.156 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.04372 Longitude: -77.487488 View: Google Map |
| stag.mubiquo.com | good | No Geolocation information available. |
| data.mubiquo.com | good | No Geolocation information available. |
| schemas.android.com | good | No Geolocation information available. |
| mobile.events.data.microsoft.com | good | IP: 52.114.133.60 Country: United States of America Region: Virginia City: Washington Latitude: 38.713451 Longitude: -78.159439 View: Google Map |
| api.backendcovid19.net | good | IP: 52.85.43.26 Country: Australia Region: Victoria City: Melbourne Latitude: -37.813999 Longitude: 144.963318 View: Google Map |
| location.backendcovid19.net | good | IP: 52.31.195.109 Country: Ireland Region: Dublin City: Dublin Latitude: 53.34399 Longitude: -6.26719 View: Google Map |
| stop-covid19-cat.firebaseio.com | good | IP: 35.201.97.85 Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map |
| in.appcenter.ms | good | IP: 20.185.75.141 Country: United States of America Region: Virginia City: Washington Latitude: 38.713451 Longitude: -78.159439 View: Google Map |

URLs

| URL | FILE |
|---|-------------------------------------|
| http://schemas.android.com/apk/res/android | a/f/a/a/i.java |
| https://pagead2.googlesyndication.com/pagead/gen_204?id=gmob-apps | c/c/a/a/a/a/b.java |
| https://stag.mubiquo.com/v1/endpoints/inboxandgeofences https://mmm.mubiquo.com/v1/endpoints/inboxandgeofences https://stag.mubiquo.com/v1/endpoints/checkin https://data.mubiquo.com/v1/endpoints/checkin https://mmm.mubiquo.com/v1/endpoints/checkin | com/mubiquo/library/mmm/K.java |
| https://s3.amazonaws.com/lottussetestdev.mubiquo.net https://s3.amazonaws.com/lottussetestuat.mubiquo.net https://s3.amazonaws.com/lottussetestlive.mubiquo.net https://s3.amazonaws.com/lottusse-dev.mubiquo.net https://s3.amazonaws.com/lottusse-uat.mubiquo.net https://s3.amazonaws.com/lottusse-live.mubiquo.net | com/mubiquo/library/lottusse/i.java |
| https://mobile.events.data.microsoft.com/OneCollector/1.0 | com/microsoft/appcenter/b/c.java |
| https://in.appcenter.ms | com/microsoft/appcenter/b/a.java |
| https://api.backendcovid19.net/api/v1 | b/a/a/a/d/b.java |
| https://location.backendcovid19.net/api/v1 | b/a/a/a/d/h.java |
| https://api.backendcovid19.net/api/v1 | b/a/a/a/d/d.java |
| https://api.backendcovid19.net/api/v1 | b/a/a/a/d/f.java |
| https://stop-covid19-cat.firebaseio.com | Android String Resource |

FIREBASE DATABASES

| FIREBASE URL | DETAILS |
|---|---|
| https://stop-covid19-cat.firebaseio.com | info App talks to a Firebase Database. |

TRACKERS

| TRACKER | URL |
|---------------------------|---|
| Google Firebase Analytics | https://reports.exodus-privacy.eu.org/trackers/49 |

| TRACKER | URL |
|-------------------------------|---|
| Microsoft Appcenter Analytics | https://reports.exodus-privacy.eu.org/trackers/243 |
| Microsoft Appcenter Crashes | https://reports.exodus-privacy.eu.org/trackers/238 |

App Security Score Calculation

Every app is given an ideal score of 100 to begin with.

For every findings with severity **high** we reduce 15 from the score.

For every findings with severity **warning** we reduce 10 from the score.

For every findings with severity **good** we add 5 to the score.

If the calculated score is greater than 100, then the app security score is considered as 100.

And if the calculated score is less than 0, then the app security score is considered as 10.

Risk Calculation

| APP SECURITY SCORE | RISK |
|--------------------|-----------------|
| 0 - 15 | CRITICAL |
| 16 - 40 | HIGH |
| 41 - 70 | MEDIUM |
| 71 - 100 | LOW |

Report Generated by - MobSF v3.0.8 Beta

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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