Test security and privacy of your mobile application (iOS & Android), detect OWASP Mobile Top 10 and other weaknesses.

Summary of Mobile Application Security Test



APP NAME

Covid19-AR

DEVICE TYPE

Android

APP ID

ar.gob.coronavirus

TEST STARTED

May 12th 2020, 02:47

APP VERSION

3.0.7

TEST FINISHED

May 12th 2020, 03:41

Malware test: no malicious code or behavioral patterns detected in the mobile app.

OWASP Mobile Top 10

The automated audit revealed the following security flaws and weaknesses that may impact the application:

WARNINGS 6

LOW RISKS

MEDIUM RISKS

HIGH RISK

Zero false-positive SLA and advanced manual testing of application is only available in ImmuniWeb® MobileSuite.

WEAK ENCRYPTION [M5] [CWE-327] [SAST]

MEDIUM

Description:

Weak or badly implemented encryption algorithms can endanger data storage and transmission used by the mobile application.

Example of insecure code:

```
Cipher c = Cipher.getInstance("AES/ECB/NoPadding");
c.init(Cipher.ENCRYPT_MODE, k, iv);
byte[] cipherText = c.doFinal(plainText);
```

Example of secure code:

```
Cipher c = Cipher.getInstance("AES/GCM/NoPadding");
c.init(Cipher.ENCRYPT_MODE, k, iv);
byte[] cipherText = c.doFinal(plainText);
```

Details:

There is 'RSA/ECB/PKCS1Padding' found in file 'c/c/a/e/d/b.java':

```
line 167: byte[] decode = Base64.decode(str, 0);
line 168: Cipher instance = Cipher.getInstance("RSA/ECB/PKCS1Padding");
line 169: instance.init(2, privateKey);
```

CVSSv3 Base Score:

4.4 (AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:L/A:N)

Reference:

- https://developer.android.com/reference/javax/crypto/Cipher.html
- http://find-sec-bugs.github.io/bugs.htm

USAGE OF UNENCRYPTED HTTP PROTOCOL [M3] [CWE-319] [SAST]

MEDIUM

Description:

The mobile application uses HTTP protocol to send or receive data. The design of HTTP protocol does not provide any encryption of the transmitted data, which can be easily intercepted if an attacker is located in the same network or has access to data channel of the victim.

Example of insecure code:

```
HttpURLConnection conn = (HttpURLConnection) url.openConnection();
```

Example of secure code:

```
HttpsURLConnection conn = (HttpsURLConnection) url.openConnection();
```

Details:

There is '(HttpURLConnection)' found in file 'c/b/a/n/m/j.java':

CVSSv3 Base Score:

6.5 (AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:N)

Reference:

- https://developer.android.com/reference/java/net/HttpURLConnection.html
- https://developer.android.com/reference/javax/net/ssl/HttpsURLConnection.html

HARDCODED DATA [M2] [CWE-200] [SAST]

LOW

Description:

The mobile application contains debugging or other technical information that may be extracted and used by an attacker to facilitate further attacks.

https:// with value https://issuetracker.google.com/issues/116541301 in following files:

androidx/databinding/ViewDataBinding.java:

line 202: throw new IllegalArgumentException("The provided bindingComponent parameter must be an instance of DataBindingComponent. See https://issuetracker.google.com/issues/116541301 for details of why this parameter is not defined as DataBindingComponent");

https:// with value https://plus.google.com/ in following files:

• c/d/a/a/c/n/n.java:

```
line 9:
Uri.parse("https://plus.google.com/").buildUpon().appendPath("circles").appe
ndPath("find").build();
```

https://with value https://www.argentina.gob.ar/solicitar-certificado-unico-habilitante-para-circulacion-emergencia-covid-19 in following files:

• com/globant/pasaportesanitario/flujos/pantallaprincipal/PantallaPrincipalViewModel.java:

```
line 135: intent.setData(Uri.parse("https://www.argentina.gob.ar/solicitar-certificado-unico-habilitante-para-circulacion-emergencia-covid-19"));
```

https:// with value https://api.app.covid.ar/ in following files:

• com/globant/pasaportesanitario/data/remoto/CovidRetrofit.java:

```
line 30: retrofit = new
Retrofit.Builder().baseUrl("https://api.app.covid.ar/").addConverterFactory(
GsonConverterFactory.create()).client(obtenerClienteHttp()).build();
```

https:// with value https://github.com/ReactiveX/RxJava/wiki/Plugins in following files:

• e/a/h.java:

```
line 32: b.a(iVar, "The RxJavaPlugins.onSubscribe hook returned a null SingleObserver. Please check the handler provided to RxJavaPlugins.setOnSingleSubscribe for invalid null returns. Further reading: https://github.com/ReactiveX/RxJava/wiki/Plugins");
```

• e/a/d.java:

```
line 9: b.a(fVar, "The RxJavaPlugins.onSubscribe hook returned a null Observer. Please change the handler provided to RxJavaPlugins.setOnObservableSubscribe for invalid null returns. Further reading: https://github.com/ReactiveX/RxJava/wiki/Plugins");
```

• elala.java:

line 15: b.a(bVar, "The RxJavaPlugins.onSubscribe hook returned a null CompletableObserver. Please check the handler provided to RxJavaPlugins.setOnCompletableSubscribe for invalid null returns. Further reading: https://github.com/ReactiveX/RxJava/wiki/Plugins");

https:// with value https://github.com/ReactiveX/RxJava/wiki/Error-Handling in following files:

• e/a/l/b.java:

```
line 6: stringBuilder.append("The exception was not handled due to missing onError handler in the subscribe() method call. Further reading: https://github.com/ReactiveX/RxJava/wiki/Error-Handling | ");
```

https:// with value https://github.com/ReactiveX/RxJava/wiki/What in following files:

• e/a/l/d.java:

```
line 6: stringBuilder.append("The exception could not be delivered to the consumer because it has already canceled/disposed the flow or the exception has nowhere to go to begin with. Further reading: <a href="https://github.com/ReactiveX/RxJava/wiki/What">https://github.com/ReactiveX/RxJava/wiki/What</a>'s-different-in-2.0#error-handling | ");
```

http:// with value http://localhost/ in following files:

retrofit2/Response.java:

```
line 26: Request.Builder url = new
Request.Builder().url("http://localhost/");
line 33: Request.Builder url = new
Request.Builder().url("http://localhost/");
line 67: Request.Builder url = new
Request.Builder().url("http://localhost/");
line 81: Request.Builder url = new
Request.Builder().url("http://localhost/");
```

CVSSv3 Base Score:

3.3 (AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N)

ENABLED APPLICATION BACKUP [M2] [CWE-921] [SAST]

LOW

Description:

The mobile application uses external backup functionality (default Android backup mechanism) that may store inside sensitive data from the application. In certain conditions, this may lead to information disclosure (e.g. when a backup server or your Gmail account is compromised).

Example of insecure code:

```
android:allowBackup="true"
```

Example of secure code:

```
android:allowBackup="false"
```

Details:

There is 'android:allowBackup="true" found in file 'android/AndroidManifest.xml':

CVSSv3 Base Score:

3.3 (AV:L/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N)

Reference

- · https://developer.android.com/guide/topics/manifest/application-element.html
- http://resources.infosecinstitute.com/android-hacking-security-part-15-hacking-android-apps-using-backup-techniques/

MISSING TAPJACKING PROTECTION [M1] [CWE-451] [SAST]

LOW

Description:

The mobile application does not have a tapjacking protection required to mitigate tapjacking attacks. By default, Android OS permits a mobile application to display its user interface over the user interface of another application installed and run on the device. When user touches the screen, application may pass the touch event to another application below its user interface layer that the user does not see, serving like a proxy to pass unintended touch activities. This attack is quite similar to clickjacking but for mobile devices. In order to be successfully exploited, a malicious application shall be already installed on the mobile phone of the victim. An example of exploitation would be a malware app that tricks user to unwittingly tap on a payment button (or any other functionality) of a sensitive application when playing a game or doing other innocent activity in the malicious application screen.

Example of secure code:

Details:

There is android:filterTouchesWhenObscured="true" missing in files:

• android/res/layout-v22/mtrl alert dialog actions.xml

- android/res/layout-v22/abc alert dialog button bar material.xml
- android/res/layout-watch/abc_alert_dialog_button_bar_material.xml

- android/res/layout-watch/abc_alert_dialog_title_material.xml
- android/res/layout-land/mtrl_picker_header_dialog.xml
- android/res/layout/text_view_with_theme_line_height.xml
- android/res/layout/mtrl_picker_text_input_date.xml
- android/res/layout/tramite dialog layout.xml
- · android/res/layout/identificacion pregunta direccion fragment.xml
- android/res/lavout/fragment autodiagnostico sintomas.xml
- android/res/lavout/mtrl alert dialog actions.xml
- android/res/layout/abc_list_menu_item_checkbox.xml
- android/res/layout/design layout snackbar include.xml
- android/res/layout/design text input start icon.xml
- android/res/layout/abc alert dialog button bar material.xml
- android/res/layout/mtrl picker header fullscreen.xml
- android/res/layout/abc_activity_chooser_view_list_item.xml
- android/res/layout/dialogo pedir ubicacion.xml
- android/res/layout/notification template big media.xml
- android/res/layout/text view with line height from layout.xml
- android/res/layout/design layout tab icon.xml
- · android/res/layout/dialog medir temperatura informacion.xml
- android/res/layout/dialog_loading.xml
- · android/res/layout/abc screen content include.xml
- android/res/layout/mtrl_picker_dialog.xml
- android/res/layout/abc_activity_chooser_view.xml
- android/res/layout/abc_select_dialog_material.xml
- android/res/layout/test toolbar elevation.xml
- · android/res/layout/abc action bar title item.xml
- android/res/layout/mtrl_calendar_year.xml
- android/res/layout/mtrl_alert_dialog_title.xml
- android/res/lavout/test_toolbar.xml
- android/res/layout/pantalla_principal_infectado_fragment.xml
- android/res/layout/abc screen toolbar.xml
- android/res/layout/text view with line height from appearance.xml
- android/res/layout/abc_dialog_title_material.xml
- android/res/layout/mtrl picker header dialog.xml
- android/res/layout/abc search view.xml
- android/res/layout/abc_search_dropdown_item_icons_2line.xml
- android/res/layout/abc action menu item layout.xml
- android/res/layout/design_bottom_sheet_dialog.xml
- android/res/layout/mtrl calendar months.xml
- android/res/layout/design_bottom_navigation_item.xml
- android/res/layout/abc action bar up container.xml
- android/res/layout/notification_template_icon_group.xml
- android/res/layout/abc_list_menu_item_layout.xml
- android/res/layout/design_text_input_end_icon.xml
- android/res/layout/design navigation item separator.xml
- android/res/layout/mtrl_calendar_day_of_week.xml
- · android/res/layout/mtrl picker header toggle.xml
- android/res/layout/mtrl_calendar_month_navigation.xml
- android/res/layout/inicio splash fragment.xml
- android/res/layout/test_reflow_chipgroup.xml
- · android/res/layout/notification media cancel action.xml
- android/res/layout/identificacion_pregunta_telefono_fragment.xml
- android/res/layout/mtrl calendar month.xml
- android/res/layout/notification_action_tombstone.xml
- android/res/layout/abc_action_menu_layout.xml
- android/res/layout/fragment_no_infectado.xml

- · android/res/layout/inicio landing fragment.xml
- · android/res/layout/fragment no puede circular.xml
- android/res/layout/notification_template_part_time.xml
- android/res/layout/fragment_autodiagnostico_temperatura.xml
- android/res/layout/identificacion pregunta confirmacion datos fragment.xml

- android/res/layout/notification action.xml
- android/res/layout/abc list menu item radio.xml
- · android/res/layout/mtrl layout snackbar include.xml
- android/res/lavout/custom_dialog.xml
- android/res/lavout/mtrl calendar horizontal.xml
- android/res/layout/mtrl alert select dialog multichoice.xml
- android/res/layout/identificacion pregunta dni manual fragment.xml
- android/res/layout/activity_autodiagnostico.xml
- android/res/layout/resultado activity.xml
- android/res/layout/test toolbar custom background.xml
- android/res/layout/identificacion pregunta direccion completa fragment.xml
- · android/res/layout/abc screen simple overlay action mode.xml
- android/res/layout/mtrl calendar vertical.xml
- android/res/layout/abc popup menu item layout.xml
- · android/res/layout/mtrl picker header title text.xml
- android/res/layout/mtrl picker fullscreen.xml
- · android/res/layout/design menu item action area.xml
- android/res/layout/select_dialog_singlechoice_material.xml
- android/res/layout/activity_error_generico.xml
- android/res/layout/dialogo_pantalla_completa.xml
- android/res/layout/select_dialog_item_material.xml
- android/res/layout/design_navigation_menu.xml
- android/res/layout/mtrl picker header selection text.xml
- android/res/layout/test_action_chip.xml
- android/res/layout/support_simple_spinner_dropdown_item.xml
- android/res/lavout/notification media action.xml
- android/res/layout/notification_template_media.xml
- android/res/layout/abc_alert_dialog_material.xml
- android/res/layout/mtrl_alert_select_dialog_item.xml
- android/res/layout/item_consejo_medir_temperatura.xml
- android/res/layout/activity_autodiagnostico_resultado.xml
- android/res/layout/design navigation item.xml
- android/res/layout/abc_tooltip.xml
- android/res/layout/abc action mode bar.xml
- android/res/layout/lista_item_dropdown.xml
- · android/res/layout/inicio terminos fragment.xml
- android/res/layout/design_navigation_item_header.xml
- · android/res/layout/test design checkbox.xml
- android/res/layout/fragment_autodiagnostico_antecedentes.xml
- android/res/layout/mtrl_picker_text_input_date_range.xml
- android/res/layout/notification template lines media.xml
- android/res/layout/design layout snackbar.xml
- android/res/layout/notification template big media narrow custom.xml
- · android/res/layout/mtrl calendar month labeled.xml
- android/res/layout/activity_inicio.xml
- android/res/layout/abc action mode close item material.xml
- android/res/layout/test_toolbar_surface.xml
- android/res/layout/design navigation item subheader.xml
- android/res/layout/abc list menu item icon.xml
- android/res/layout/zxing capture.xml
- android/res/layout/abc_expanded_menu_layout.xml
- android/res/layout/notification template media custom.xml
- android/res/layout/abc_cascading_menu_item_layout.xml

- android/res/layout/activity main.xml
- android/res/layout/fragment_puede_circular.xml
- android/res/layout/mtrl_calendar_days_of_week.xml
- android/res/layout/text_view_without_line_height.xml
- android/res/layout/mtrl calendar day.xml
- android/res/layout/identificacion_activity.xml
- android/res/layout/zxing barcode scanner.xml
- android/res/layout/mtrl layout snackbar.xml
- · android/res/layout/design_navigation_menu_item.xml
- android/res/layout/notification template custom big.xml
- android/res/layout/text_view_with_line_height_from_style.xml
- android/res/layout/mtrl alert select dialog singlechoice.xml
- android/res/layout/abc_popup_menu_header_item_layout.xml
- android/res/layout/abc alert dialog title material.xml
- android/res/layout/dialog covid.xml
- android/res/layout/notification_template_big_media_custom.xml
- android/res/layout/notification template big media narrow.xml
- · android/res/layout/dialogo pedir habilitar manualmente ubicacion.xml
- android/res/layout/fragment circular.xml
- android/res/layout/notification template part chronometer.xml
- android/res/layout/mtrl alert dialog.xml
- android/res/layout/identificacion_preguntas_finalizado_fragment.xml
- android/res/layout/mtrl picker actions.xml
- android/res/layout/pantalla_principal_activity.xml
- android/res/layout/abc_screen_simple.xml
- android/res/layout/select_dialog_multichoice_material.xml
- android/res/layout/design_layout_tab_text.xml
- android/res/layout-sw600dp/design_layout_snackbar.xml
- android/res/layout-sw600dp/mtrl_layout_snackbar.xml
- android/res/layout-v26/abc_screen_toolbar.xml
- android/res/layout-v26/mtrl calendar month.xml

There is 'extends FrameLayout' found in file 'androidx/core/widget/NestedScrollView.java':

```
line 43:
line 44: public class NestedScrollView extends FrameLayout implements j, f {
line 45:    public static final a B = new a();
```

There is 'extends FrameLayout' found in file 'androidx/fragment/app/FragmentContainerView.java':

```
line 18:
line 19: public final class FragmentContainerView extends FrameLayout {
line 20:    public ArrayList<View> b;
```

There is 'extends FrameLayout' found in file 'androidx/appcompat/widget/ContentFrameLayout.java':

```
line 13:
line 14: public class ContentFrameLayout extends FrameLayout {
line 15:    public TypedValue b;
```

There is 'extends FrameLayout' found in file 'androidx/appcompat/widget/ActionBarContainer.java':

```
line 22:
line 23: public class ActionBarContainer extends FrameLayout {
line 24:    public boolean b;
```

There is 'extends FrameLayout' found in file 'androidx/appcompat/widget/FitWindowsFrameLayout.java':

```
line 9:
line 10: public class FitWindowsFrameLayout extends FrameLayout {
line 11:    public g0 b;
```

There is 'extends FrameLayout' found in file 'androidx/cardview/widget/CardView.java':

```
line 14:
line 15: public class CardView extends FrameLayout {
line 16:    public static final int[] i = new int[]{16842801};
```

There is 'extends FrameLayout' found in file 'c/d/a/b/t/b.java':

```
line 9: /* compiled from: CircularRevealFrameLayout */
line 10: public class b extends FrameLayout implements c {
line 11:    public void a() {
```

There is 'extends FrameLayout' found in file 'com/journeyapps/barcodescanner/CompoundBarcodeView.java':

```
line 14:
line 15: public class CompoundBarcodeView extends FrameLayout {
line 16:    public BarcodeView b;
```

There is 'extends FrameLayout' found in file 'b/b/o/i/j.java':

```
line 65:    /* compiled from: MenuItemWrapperICS */
line 66:    public static class c extends FrameLayout implements b.b.o.b {
    public final CollapsibleActionView b;
```

There is 'extends ViewGroup' found in file 'androidx/recyclerview/widget/RecyclerView.java':

```
line 55:
line 56: public class RecyclerView extends ViewGroup implements b.h.m.e, b.h.m.f {
line 57:    public static final boolean ALLOW_SIZE_IN_UNSPECIFIED_SPEC =
    (VERSION.SDK_INT >= 23);
```

There is 'extends ViewGroup' found in file 'androidx/appcompat/widget/ActionBarOverlayLayout.java':

```
line 32:
line 33: public class ActionBarOverlayLayout extends ViewGroup implements c0, i, j {
line 34:    public static final int[] C = new int[]{b.b.a.actionBarSize, 16842841};
```

There is 'extends ViewGroup' found in file 'androidx/appcompat/widget/Toolbar.java':

```
line 43:
line 44: public class Toolbar extends ViewGroup {
line 45:    public ColorStateList A;
```

There is 'extends ViewGroup' found in file 'androidx/coordinatorlayout/widget/CoordinatorLayout.java':

```
line 46:
line 47: public class CoordinatorLayout extends ViewGroup implements b.h.m.i, j {
line 48:    public static final String u;
```

There is 'extends ViewGroup' found in file 'androidx/constraintlayout/widget/ConstraintLayout.java':

```
line 23:
line 24: public class ConstraintLayout extends ViewGroup {
line 25:    public SparseArray<View> b = new SparseArray();
```

There is 'extends ViewGroup' found in file 'c/d/a/b/z/d.java':

```
line 17: /* compiled from: FlowLayout */
line 18: public class d extends ViewGroup {
line 19:  public int b;
```

There is 'extends ViewGroup' found in file 'c/e/a/d.java':

```
line 33: /* compiled from: CameraPreview */
line 34: public class d extends ViewGroup {
line 35:    public static final String B = d.class.getSimpleName();
```

There is 'extends ViewGroup' found in file 'b/f/b/c.java':

```
line 11: /* compiled from: Constraints */
line 12: public class c extends ViewGroup {
line 13:    public b b;
```

There is 'extends ViewGroup' found in file 'b/b/p/i0.java':

```
line 17: /* compiled from: LinearLayoutCompat */
line 18: public class i0 extends ViewGroup {
line 19:    public boolean b;
```

There is 'extends ViewGroup' found in file 'b/b/p/a.java':

```
line 23: /* compiled from: AbsActionBarView */
line 24: public abstract class a extends ViewGroup {
line 25:    public final a b;
```

There is 'extends ListView' found in file 'androidx/appcompat/app/AlertController.java':

```
line 78:
line 79:     public static class RecycleListView extends ListView {
line 80:         public final int b;
```

There is 'extends ListView' found in file 'androidx/appcompat/view/menu/ExpandedMenuView.java':

```
line 17:
line 18: public final class ExpandedMenuView extends ListView implements b, n,
OnItemClickListener {
line 19:    public static final int[] c = new int[]{16842964, 16843049};
```

There is 'extends ListView' found in file 'b/b/p/f0.java':

```
line 19: /* compiled from: DropDownListView */
line 20: public class f0 extends ListView {
line 21:    public final Rect b = new Rect();
```

There is 'extends LinearLayout' found in file 'androidx/appcompat/widget/ButtonBarLayout.java':

```
line 16:
line 17: public class ButtonBarLayout extends LinearLayout {
line 18:    public boolean b;
```

There is 'extends LinearLayout' found in file 'androidx/appcompat/widget/ActivityChooserView\$InnerLayout.java':

```
line 9:
line 10: public class ActivityChooserView$InnerLayout extends LinearLayout {
line 11:    public static final int[] b = new int[]{16842964};
```

There is 'extends LinearLayout' found in file 'androidx/appcompat/widget/FitWindowsLinearLayout.java':

```
line 9:
line 10: public class FitWindowsLinearLayout extends LinearLayout {
line 11:    public g0 b;
```

There is 'extends LinearLayout' found in file 'androidx/appcompat/view/menu/ListMenuItemView.java':

```
line 30:
line 31: public class ListMenuItemView extends LinearLayout implements a,
SelectionBoundsAdjuster {
line 32:    public i b;
```

There is 'extends View' found in file 'androidx/appcompat/widget/ViewStubCompat.java':

```
line 15:
line 16: public final class ViewStubCompat extends View {
line 17:  public int b;
```

There is 'extends View' found in file 'androidx/constraintlayout/widget/Guideline.java':

```
line 8:
line 9: public class Guideline extends View {
line 10:    public Guideline(Context context) {
```

There is 'extends View' found in file 'com/journeyapps/barcodescanner/ViewfinderView.java':

```
line 19:
line 20: public class ViewfinderView extends View {
line 21:    public static final int[] m = new int[]{0, 64, 128, 192, 255, 192, 128, 64};
```

There is 'extends View' found in file 'b/f/b/d.java':

```
line 11: /* compiled from: Placeholder */
line 12: public class d extends View {
line 13:    public int b;
```

There is 'extends View' found in file 'b/f/b/a.java':

```
line 16: /* compiled from: ConstraintHelper */
line 17: public abstract class a extends View {
line 18:    public int[] b;
```

There is 'extends CardView' found in file 'c/d/a/b/r/a.java':

```
line 15: /* compiled from: MaterialCardView */
line 16: public class a extends CardView implements Checkable, n {
line 17:    public static final int[] n = new int[]{16842911};
```

There is 'extends ImageButton' found in file 'c/d/a/b/z/j.java':

```
line 7: /* compiled from: VisibilityAwareImageButton */
line 8: public class j extends ImageButton {
line 9: public int b;
```

There is 'extends ImageButton' found in file 'b/b/p/l.java':

```
line 14: /* compiled from: AppCompatImageButton */
line 15: public class 1 extends ImageButton {
line 16:    public final e b;
```

There is 'extends Spinner' found in file 'b/b/p/w.java':

```
line 38: /* compiled from: AppCompatSpinner */
line 39: public class w extends Spinner {
line 40:    public static final int[] j = new int[]{16843505};
```

There is 'extends ImageView' found in file 'b/b/p/n.java':

```
line 13: /* compiled from: AppCompatImageView */
line 14: public class n extends ImageView {
line 15:  public final e b;
```

There is 'extends TextView' found in file 'b/b/p/z.java':

```
line 26: /* compiled from: AppCompatTextView */
line 27: public class z extends TextView implements e, b {
line 28:  public final e b;
```

There is 'extends MultiAutoCompleteTextView' found in file 'b/b/p/o.java':

```
line 14: /* compiled from: AppCompatMultiAutoCompleteTextView */
line 15: public class o extends MultiAutoCompleteTextView {
line 16:    public static final int[] d = new int[]{16843126};
```

There is 'extends CheckedTextView' found in file 'b/b/p/h.java':

```
line 13: /* compiled from: AppCompatCheckedTextView */
line 14: public class h extends CheckedTextView {
line 15:    public static final int[] c = new int[]{16843016};
```

There is 'extends ToggleButton' found in file 'b/b/p/b0.java':

```
line 7: /* compiled from: AppCompatToggleButton */
line 8: public class b0 extends ToggleButton {
line 9: public final y b;
```

There is 'extends AutoCompleteTextView' found in file 'b/b/p/d.java':

```
line 16: /* compiled from: AppCompatAutoCompleteTextView */
line 17: public class d extends AutoCompleteTextView {
line 18:    public static final int[] d = new int[]{16843126};
```

There is 'extends HorizontalScrollView' found in file 'b/b/p/q0.java':

```
line 21: /* compiled from: ScrollingTabContainerView */
line 22: public class q0 extends HorizontalScrollView implements OnItemSelectedListener
{
line 23: public Runnable b;
```

There is 'extends RatingBar' found in file 'b/b/p/s.java':

```
line 10: /* compiled from: AppCompatRatingBar */
line 11: public class s extends RatingBar {
line 12:  public final q b;
```

There is 'extends Button' found in file 'b/b/p/f.java':

```
line 17: /* compiled from: AppCompatButton */
line 18: public class f extends Button implements b {
line 19:    public final e b;
```

There is 'extends CheckBox' found in file 'b/b/p/g.java':

```
line 11: /* compiled from: AppCompatCheckBox */
line 12: public class g extends CheckBox {
line 13:    public final i b;
```

There is 'extends RadioButton' found in file 'b/b/p/r.java':

```
line 11: /* compiled from: AppCompatRadioButton */
line 12: public class r extends RadioButton {
line 13:  public final i b;
```

There is 'extends EditText' found in file 'b/b/p/k.java':

```
line 19: /* compiled from: AppCompatEditText */
line 20: public class k extends EditText {
line 21:    public final e b;
```

There is 'extends SeekBar' found in file 'b/b/p/t.java':

```
line 10: /* compiled from: AppCompatSeekBar */
line 11: public class t extends SeekBar {
line 12:  public final u b;
```

CVSSv3 Base Score:

3.9 (AV:L/AC:L/PR:L/UI:R/S:U/C:L/I:L/A:N)

Reference:

- https://developer.android.com/guide/topics/ui/declaring-layout.html
- https://developer.android.com/guide/topics/resources/layout-resource.html
- https://blog.lookout.com/blog/2010/12/09/android-touch-event-hijacking/

EXPORTED BROADCAST RECEIVERS [M1] [CWE-925] [SAST]

LOW

Description:

The mobile application contains an exported receiver enabling other applications, including malicious ones, to send intents without restrictions.

By default, Broadcast Receivers is exported in Android, as the result any application will be able to send an intent to the Broadcast Receiver of the application. To define which applications can send intents to mobile application's Broadcast Receiver set relevant permissions in the Android Manifest file.

Example of insecure code:

```
<receiver
    android:name=".receivers.BatteryMonitoringReceiver"
    ...
</receiver>
```

Example of secure code:

```
<permission
    android:name="com.yourpage.permission.YOUR_PERMISSION"
    android:protectionLevel="signature" />

<uses-permission
    android:name="com.yourpage.permission.YOUR_PERMISSION" />

<receiver
    android:name=".receivers.BatteryMonitoringReceiver"
    android:permission="com.yourpage.permission.YOUR_PERMISSION"
    ...
</receiver>
```

Details:

There is 'ReceiverArrangueDeDispositivo' found in file 'android/AndroidManifest.xml':

CVSSv3 Base Score:

3.3 (AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N)

Reference:

- https://developer.android.com/guide/topics/manifest/receiver-element.html
- https://developer.android.com/reference/android/content/BroadcastReceiver.html

TEMPORARY FILE CREATION [SAST]

WARNING

Description:

The mobile application creates temporary files. Despite that cache files are usually private by default, it is recommended to make sure that temporary files are securely deleted when they are not required by the application anymore.

Details

There is 'createTempFile()' found in file 'c/e/a/f.java':

There is 'createTempFile()' found in file 'b/t/j.java':

```
line 117:      }
line 118:      File createTempFile = File.createTempFile("room-copy-helper", ".tmp",
this.a.getCacheDir());
line 119:      createTempFile.deleteOnExit();
```

Reference:

https://developer.android.com/training/basics/data-storage/files.html

USAGE OF IMPLICIT INTENT [M1] [CWE-927] [SAST]

WARNING

Description:

The mobile application uses implicit intent that may be insecure under certain conditions.

Intents enable mobile applications to communicate with each other by requesting to perform different actions for which they are better suited. An implicit intent, however, does not specify to which particular application it sends a request to perform an action. If a malicious application is installed on victim's device, it may also receive the implicit intent, respond to it and perform some action instead, or in addition to, a legitimate application.

Example of insecure code:

```
Intent sendIntent = new Intent();
```

Example of secure code:

```
Intent downloadIntent = new Intent(this, DownloadService.class);
```

Details:

There is 'new Intent()' found in file 'a/a/a/b/a.java':

There is 'new Intent()' found in file 'c/d/a/a/c/n/m.java':

There is 'new Intent()' found in file 'b/r/a.java':

There is 'new Intent()' found in file 'b/r/w/c.java':

There is 'new Intent()' found in file 'b/h/e/j.java':

Reference:

- https://developer.android.com/guide/components/intents-filters.html
- https://developer.android.com/training/articles/security-tips.html

USAGE OF INTENT FILTER [M1] [CWE-927] [SAST]

WARNING

Description:

The mobile application uses an intent filter that may be a serious security risk if not properly implemented and filtered. Developers should not solely rely on intent filters for security purposes because they place no restrictions on explicit intents. Intent filters are defined in the Android Manifest file, they let developers choose which type of intents their application components are supposed to receive and handle.

Example of insecure code:

Example of secure code:

```
// When you use intent-filter, you have to perform input validation in your code.
```

Details:

There is '<intent-filter>' found in file 'android/AndroidManifest.xml':

Reference:

- https://developer.android.com/guide/components/intents-filters.html
- https://developer.android.com/training/articles/security-tips.html

DYNAMIC LOAD OF CODE [M7] [CWE-94] [SAST]

WARNING

Description:

The mobile application uses dynamic load of executable code. Under certain circumstances, dynamic load of code can be dangerous. For example, if the code is located on an external storage (e.g. SD card), this can lead to code injection vulnerability if the external storage is world readable and/or writable and an attacker can access it.

Example of insecure code:

```
Object test = loader.loadClass("Test", true).newInstance();
```

Example of secure code:

```
// If you are using code from unsafe place (like external storage),
// you should sign and cryptographically verify your code.
```

Details:

There is 'ClassLoader' found in file 'androidx/core/app/CoreComponentFactory.java':

```
line 26:
line 27:
             public Activity instantiateActivity(ClassLoader classLoader, String str,
Intent intent) throws InstantiationException, IllegalAccessException,
ClassNotFoundException {
line 28:
                 return (Activity) a(super.instantiateActivity(classLoader, str,
intent));
line 29:
             }
line 30:
line 31:
             public Application instantiateApplication(ClassLoader classLoader, String
str) throws InstantiationException, IllegalAccessException, ClassNotFoundException {
line 32:
                 return (Application) a(super.instantiateApplication(classLoader,
str));
line 33:
line 34:
line 35:
             public ContentProvider instantiateProvider(ClassLoader classLoader, String
str) throws InstantiationException, IllegalAccessException, ClassNotFoundException {
line 36:
                 return (ContentProvider) a(super.instantiateProvider(classLoader,
str));
line 37:
             }
line 38:
line 39:
             public BroadcastReceiver instantiateReceiver(ClassLoader classLoader,
String str, Intent intent) throws InstantiationException, IllegalAccessException,
ClassNotFoundException {
line 40:
                 return (BroadcastReceiver) a(super.instantiateReceiver(classLoader,
str, intent));
line 41:
             }
line 42:
line 43:
             public Service instantiateService(ClassLoader classLoader, String str,
Intent intent) throws InstantiationException, IllegalAccessException,
ClassNotFoundException {
line 44:
                 return (Service) a(super.instantiateService(classLoader, str,
intent));
line 45:
             }
```

There is 'ClassLoader' found in file 'androidx/navigation/NavController.java':

There is 'ClassLoader' found in file 'androidx/navigation/fragment/DialogFragmentNavigator.java':

```
line 73:
line 74:
    Fragment a = this.b.g().a(this.a.getClassLoader(), str);
line 75:
    if (DialogFragment.class.isAssignableFrom(a.getClass())) {
```

There is 'ClassLoader' found in file 'androidx/navigation/fragment/NavHostFragment.java':

There is 'ClassLoader' found in file 'androidx/fragment/app/FragmentContainerView.java':

There is 'ClassLoader' found in file 'androidx/fragment/app/Fragment.java':

```
line 17: import android.os.Parcelable;
line 18: import android.os.Parcelable.ClassLoaderCreator;
line 19: import android.os.Parcelable.Creator;
```

There is 'ClassLoader' found in file 'androidx/recyclerview/widget/StaggeredGridLayoutManager.java':

There is 'ClassLoader' found in file 'androidx/recyclerview/widget/RecyclerView.java':

```
line 18: import android.os.Parcelable;
line 19: import android.os.Parcelable.ClassLoaderCreator;
line 20: import android.os.Parcelable.Creator;
```

```
line 3359:
                            try {
line 3360:
                                 ClassLoader classLoader;
line 3361:
                                 Constructor constructor;
line 3362:
                                 if (isInEditMode()) {
line 3363:
                                     classLoader = getClass().get<mark>ClassLoader</mark>();
line 3364:
                                 } else {
line 3365:
                                     classLoader = context.getClassLoader();
line 3366:
line 3367:
                                 Class asSubclass = Class.forName(str, false,
classLoader).asSubclass(o.class);
line 3368:
                                 Object[] objArr = null;
```

There is 'ClassLoader' found in file 'androidx/appcompat/app/AppCompatViewInflater.java':

There is 'ClassLoader' found in file 'androidx/appcompat/widget/Toolbar.java':

```
line 7: import android.os.Parcelable;
line 8: import android.os.Parcelable.ClassLoaderCreator;
line 9: import android.os.Parcelable.Creator;
```

There is 'ClassLoader' found in file 'androidx/appcompat/widget/SearchView.java':

```
line 19: import android.os.Parcelable;
line 20: import android.os.Parcelable.ClassLoaderCreator;
line 21: import android.os.Parcelable.Creator;
```

There is 'ClassLoader' found in file 'androidx/coordinatorlayout/widget/CoordinatorLayout.java':

```
line 12: import android.os.Parcelable;
line 13: import android.os.Parcelable.ClassLoaderCreator;
line 14: import android.os.Parcelable.Creator;
```

There is 'ClassLoader' found in file 'androidx/savedstate/Recreator.java':

There is 'ClassLoader' found in file 'retrofit2/Retrofit.java':

```
line 200:     }
line 201:     return Proxy.newProxyInstance(cls.getClassLoader(), new Class[]{cls},
new InvocationHandler() {
line 202:         public final Object[] emptyArgs = new Object[0];
```

There is 'ClassLoader' found in file 'f/k/b.java':

There is 'ClassLoader' found in file 'c/d/a/a/e/a/u.java':

```
line 8: static {
line 9:     u.class.getClassLoader();
line 10: }
```

There is 'ClassLoader' found in file 'c/d/a/a/e/b/c.java':

There is 'ClassLoader' found in file 'c/d/a/b/u/a.java':

There is 'ClassLoader' found in file 'c/d/a/b/f0/a.java':

```
line 5: import android.os.Parcelable;
line 6: import android.os.Parcelable.ClassLoader
Creator;
line 7: import android.os.Parcelable.Creator;
```

```
line 57:
line 58:    public /* synthetic */ a(Parcel parcel, ClassLoader classLoader, a aVar) {
line 59:         super(parcel, classLoader);
line 60:         int readInt = parcel.readInt();
```

There is 'ClassLoader' found in file

'com/globant/pasaportesanitario/flujos/autodiagnostico/AutodiagnosticoTemperaturaFragmentArgs.java':

There is 'ClassLoader' found in file

'com/globant/pasaportesanitario/flujos/autodiagnostico/AutodiagnosticoAntecedentesFragmentArgs.java':

There is 'ClassLoader' found in file

'com/globant/pasaportesanitario/flujos/autodiagnostico/AutodiagnosticoSintomasFragmentArgs.java':

There is 'ClassLoader' found in file 'b/r/f.java':

There is 'ClassLoader' found in file 'b/r/v/a.java':

There is 'ClassLoader' found in file 'b/m/d/w.java':

```
line 47:
line 48:    public w(k kVar, ClassLoader classLoader) {
line 49:  }
```

There is 'ClassLoader' found in file 'b/m/d/o.java':

There is 'ClassLoader' found in file 'b/m/d/k.java':

```
line 11:
line 12:    public static boolean b(ClassLoader classLoader, String str) {
line 13:         try {
line 14:             return Fragment.class.isAssignableFrom(c(classLoader, str));
line 15:    } catch (ClassNotFoundException unused) {
```

```
line 19:
line 20:    public static Class<?> c(ClassLoader classLoader, String str) throws
ClassNotFoundException {
line 21:         Class<?> cls = (Class) a.getOrDefault(str, null);
```

```
line 24:     }
line 25:     Class cls2 = Class.forName(str, false, classLoader);
line 26:     a.put(str, cls2);
```

```
line 29:
line 30:    public static Class<? extends Fragment> d(ClassLoader classLoader, String
str) {
line 31:        String str2 = "Unable to instantiate fragment ";
line 32:        try {
line 33:        return c(classLoader, str);
line 34:    } catch (ClassNotFoundException e) {
```

```
line 40:
line 41:    public Fragment a(ClassLoader classLoader, String str) {
line 42:         throw null;
```

There is 'ClassLoader' found in file 'b/m/d/u.java':

```
line 20:
line 21:    public void a(ClassLoader classLoader) {
line 22:         Bundle bundle = this.b.mSavedFragmentState;
line 23:         if (bundle != null) {
line 24:             bundle.setClassLoader(classLoader);
line 25:         Fragment fragment = this.b;
```

There is 'ClassLoader' found in file 'b/m/d/m.java':

There is 'ClassLoader' found in file 'b/m/d/a.java':

There is 'ClassLoader' found in file 'b/j/a/a.java':

```
line 5: import android.os.Parcelable;
line 6: import android.os.Parcelable.ClassLoaderCreator;
line 7: import android.os.Parcelable.Creator;
```

```
line 16:    /* compiled from: AbsSavedState */
line 17:    public static class b implements ClassLoaderCreator<a> {
    public Object createFromParcel(Parcel parcel) {
```

```
line 62:
line 63:    public a(Parcel parcel, ClassLoader classLoader) {
line 64:         Parcelable readParcelable = parcel.readParcelable(classLoader);
line 65:         if (readParcelable == null) {
```

There is 'ClassLoader' found in file 'b/b/o/f.java':

There is 'ClassLoader' found in file 'b/y/a.java':

```
line 147:      }
line 148:      cls2 = Class.forName(String.format("%s.%sParcelizer", new Object[]
{cls.getPackage().getName(), cls.getSimpleName()}), false, cls.getClassLoader());
line 149:      this.c.put(cls.getName(), cls2);
```

Reference:

- https://developer.android.com/reference/java/lang/ClassLoader.html
- https://developer.android.com/reference/dalvik/system/DexClassLoader.html
- https://developer.android.com/reference/java/security/SecureClassLoader.html
- https://developer.android.com/reference/java/net/URLClassLoader.html

OBJECT DESERIALIZATION FOUND [M7] [CWE-502] [SAST]

WARNING

Description:

Object deserialization performed on an untrusted resource (e.g. user-supplied input or external storage), can be dangerous if the data for deserialization is tampered by an attacker.

Example of insecure code:

```
bundle.putSerializable("exampleClass", exampleOfSerializabledClass);
exampleOfSerializabledClass = bundle.getSerializable("exampleClass");
```

Example of secure code:

```
// Use only serialization when you have the control over data
```

Details:

There is 'implements Serializable' found in file 'g/h.java':

There is 'implements Serializable' found in file 'f/c.java':

```
line 5: /* compiled from: Tuples.kt */
line 6: public final class c<A, B> implements Serializable {
line 7:  public final A b;
```

There is 'implements Serializable' found in file 'f/l/c/b.java':

```
line 17:    /* compiled from: CallableReference */
line 18:    public static class a implements Serializable {
line 19:        public static final a b = new a();
```

There is 'implements Serializable' found in file 'f/l/c/n.java':

```
line 5: /* compiled from: Ref */
line 6: public final class n<T> implements Serializable {
line 7:  public T b;
```

There is 'implements Serializable' found in file 'f/l/c/l.java':

```
line 5: /* compiled from: Ref */
line 6: public final class 1 implements Serializable {
line 7:  public int b;
```

There is 'implements Serializable' found in file 'f/l/c/m.java':

```
line 5: /* compiled from: Ref */
line 6: public final class m implements Serializable {
line 7:  public long b;
```

There is 'implements Serializable' found in file 'f/p/c.java':

```
line 7: /* compiled from: Regex.kt */
line 8: public final class c implements Serializable {
line 9:  public final Pattern b;
```

There is 'implements Serializable' found in file 'c/d/b/e0/q.java':

```
line 13: /* compiled from: LinkedTreeMap */
line 14: public final class q<K, V> extends AbstractMap<K, V> implements Serializable {
line 15:    public static final Comparator<Comparable> i = new a();
```

There is 'implements Serializable' found in file 'e/a/n/h/e.java':

```
line 9:  /* compiled from: NotificationLite */
line 10:  public static final class a implements Serializable {
line 11:    public final e.a.k.b b;
```

```
line 18:  /* compiled from: NotificationLite */
line 19:  public static final class b implements Serializable {
    public final Throwable b;
```

There is 'getSerializableExtra()' found in file

'com/globant/pasaportesanitario/flujos/autodiagnostico/resultado/ResultadoActivity.java':

Reference:

• https://developer.android.com/reference/android/os/Bundle.html

MISSING ANTI-EMULATION [SAST]

WARNING

Description:

The mobile application does not use any anti-emulation or anti-debugger techniques (e.g. detecting rooted devices or checking if contacts are authentic).

This can significantly facilitate application debugging and reverse-engineering processes.

Reference:

https://github.com/strazzere/anti-emulator

Mobile Application Behaviour

Mobile Application Functionality

The mobile application uses the following functionality that can endanger user's privacy under certain circumstances:

Camera

The mobile application can use the camera for taking pictures or videos.

Location

The mobile application has an access to geographical location of the mobile phone.

Mobile Application Outgoing Traffic

The following HTTP/S requests were sent by mobile application without interaction with user:

🛕 POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/affiliation/v1/affiliation:lookup?alt=proto&key=AlzaSyAP-gfH3qvi6vgHZb

SYwQ XHqV mXHhzlk

♠ POST https://cloudconfig.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://cloudconfig.googleapis.com/config

🖺 POST https://mobilenetworkscoring-pa.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://mobilenetworkscoring-pa.googleapis.com/v1/GetWifiQuality?key=AlzaSyBrlVtd67QvwS Wz0

Do4ZIdOeA6ThtVczU

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/usercontext/v1/controllerhub/getconfig?key=AlzaSyAP-gfH3qvi6vgHZb

 $SYwQ_XHqV_mXHhzIk$

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs

POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/affiliation/v1/affiliation:lookup?alt=proto&key=AlzaSyAP-gfH3qvi6vgHZb

SYwQ_XHqV_mXHhzlk

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7B

OnBjZPEkk4rYwzOIz-ITI

♠ POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7B

OnBjZPEkk4rYwzOIz-ITI

☐ POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7B

OnBjZPEkk4rYwzOlz-ITI

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7B

OnBjZPEkk4rYwzOIz-ITI

POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/placesandroid/v1/getPlaceInferenceModelWeights?key=AlzaSyAP-gfH3

qvi6vgHZbSYwQ_XHqV_mXHhzIk

☐ POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7B

OnBjZPEkk4rYwzOIz-ITI

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidcheck/v1/attestations/adAttest?key=AlzaSyDaepk5bynjTA7ZhzF

0fzIHIXAkZlz3dA

☐ GET https://www.googleadservices.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleadservices.com/pagead/conversion/1001680686/?bundleid=com.google.android. youtube&appversion=12.17.41&osversion=8.1.0&sdkversion=ct-sdk-a-v2.2.4&gms=1&lat=0&rdid=4b086381-48de-403 4-bc31-873a83e5c04d×tamp=1589244710.488&remarketing only=1&usage tracking enabled=0&data.screen name

=%3CAndroid_YT_Open_App%3E

☐ GET https://storage.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://storage.googleapis.com/gboard-emoji/dulcitone/emoji_search_en_us.json

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7B

OnBjZPEkk4rYwzOIz-ITI

♠ POST https://mobile-collector.newrelic.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://mobile-collector.newrelic.com/mobile/v4/connect

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7B

OnBjZPEkk4rYwzOIz-ITI

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidantiabuse/v1/x/create?alt=PROTO&key=AlzaSyBofcZsgLSS7B

OnBjZPEkk4rYwzOlz-ITI

⚠ POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/androidcheck/v1/attestations/adAttest?key=AlzaSyDaepk5bynjTA7ZhzF

0fzIHIXAkZlz3dA

☐ GET https://storage.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://storage.googleapis.com/gboard-emoji/20171211/en us.zip

A POST https://youtubei.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://youtubei.googleapis.com/deviceregistration/v1/devices?key=AlzaSyA8eiZmM1FaDVjRy-df2K

TyQ vz yYM39w&rawDeviceId=ea5f096a0b9b10c5

☐ GET https://www.youtube.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.youtube.com/csi_204?v=3&s=youtube_android&action=process&yt_lt=frozen&mod_li=0 &conn=3&it=ndps.1102,app_l.1542,proc_k.-290,f_proc.1722&cplatform=mobile&cbr=com.google.android.youtube&c=a ndroid&cmodel=Android%20SDK%20built%20for%20x86&cos=Android&csdk=27&cbrver=12.17.41&cver=12.17

osver=8.1.0&cbrand=Google&proc=2

POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://www.googleapis.com/youtubei/v1/browse?key=AlzaSyA8eiZmM1FaDVjRy-df2KTyQ vz yYM

39w

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs

🖺 POST https://android.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://android.googleapis.com/checkin

☐ GET https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:51 CEST

Requested URL: https://www.googleapis.com/android_video/v1/config?make=Google&model=Android%20SDK%20bu ilt%20for%20x86&product=sdk_gphone_x86&device=generic_x86&devid=3992956992407323035&apptype=1&devtyp

e=1&fs=f

♠ POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs

A POST https://android.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://android.googleapis.com/checkin

POST https://cloudconfig.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://cloudconfig.googleapis.com/config

A POST https://cloudconfig.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://cloudconfig.googleapis.com/config

⚠ POST https://android.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://android.googleapis.com/auth/devicekey

A POST https://www.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://www.googleapis.com/experimentsandconfigs/v1/getExperimentsAndConfigs?r=13

GET https://www.youtube.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://www.youtube.com/gen_204?cplatform=mobile&cbr=com.google.android.youtube&c=android&cmodel=Android%20SDK%20built%20for%20x86&cos=Android&csdk=27&cbrver=12.17.41&cver=12.17.41&cosver=8. 1.0&cbrand=Google&a=delayed_request&batch_size=100&max_queue_size=1000&max_age_hours=720&age_of_old est_request_hours=0**request_size=0**total_enqueued_requests=0**total_successful_requests=0**total_server_http_errors=0**total_client_http_errors=0**report_cap_hours=24**total_dropped_requests=0**

POST https://mobile-collector.newrelic.com HTTP/1.1

Date/Time: 12.05.2020 02:52 CEST

Requested URL: https://mobile-collector.newrelic.com/mobile/v3/data

🖺 POST https://android.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:53 CEST

Requested URL: https://android.googleapis.com/auth/devicekey

POST https://mobilenetworkscoring-pa.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:53 CEST

Requested URL: https://mobilenetworkscoring-pa.googleapis.com/v1/GetWifiQuality?key=AlzaSyBrlVtd67QvwS_Wz0

Do4ZIdOeA6ThtVczU

A POST https://mobilenetworkscoring-pa.googleapis.com HTTP/1.1

Date/Time: 12.05.2020 02:53 CEST

Requested URL: https://mobilenetworkscoring-pa.googleapis.com/v1/GetWifiQuality?key=AlzaSyBrlVtd67QvwS Wz0

Do4ZIdOeA6ThtVczU



Software Composition Analysis

The mobile application seems not to use any external or native libraries.

External None

Native None

Mobile App External Communications

Static mobile application security test revealed the following remote hosts where the mobile application may send or receive data:

Hostname	IP:Port	SSL Encryption	Websec Server Security	Domain Domain Security
mobile- collector.newrelic.com:443	151.101.66.110:443	F	В	No risks found
www.youtube.com:443	172.217.13.174:443	A-	A	1543 malicious websites found
www.argentina.gob.ar:443	104.27.182.13:443	A+	А	375 malicious websites found
api.app.covid.ar:443	75.2.14.245:443	A-	С	No risks found