

```
1 package androidPermissions;
2
3 public class Permissions {
4     int count;
5     String type;
6
7     public Permissions(int c, String t) {
8         this.count = c;
9         this.type = t;
10    }
11
12    public void increaseCount() {
13        count++;
14    }
15
16    public int getCount() {
17        return count;
18    }
19
20    public String getType() {
21        return type;
22    }
23 }
24
```

```

1 package androidPermissions;
2
3 import java.io.*;
4 import java.util.*;
5 import java.util.Map.Entry;
6 import org.apache.commons.collections4.ListUtils;
7
8 public class AnalyzeAndroidPermissions {
9     static HashSet<String> normal = new HashSet<>();
10    static HashSet<String> dangerous = new HashSet<>();
11    static HashSet<String> signature = new HashSet<>();
12    static HashSet<String> removed = new HashSet<>();
13    static HashSet<String> other = new HashSet<>();
14    static File[] spyFiles = new File("src/res/spyware").listFiles();
15    static File[] popFiles = new File("src/res/popular").listFiles();
16    static File permFile = new File("src/res/permissions/allPermissions.txt");
17    static File spyData = new File("src/res/permissions/spywarePermissions.txt");
18    static File popData = new File("src/res/permissions/popularPermissions.txt");
19    static File permByAppFile = new File("src/res/permissions/permissionsByApp.txt");
20    static Map<String, Permissions> spyMap = new HashMap<>();
21    static Map<String, Permissions> popMap = new HashMap<>();
22    static File spyCount = new File("src/res/permissions/spywarePermissionsCount.txt");
23    static File popCount = new File("src/res/permissions/popPermissionsCount.txt");
24    static File sharedPerms = new File("src/res/permissions/sharedPermissions.txt");
25    static File uniquePerms = new File("src/res/permissions/uniquePermissions.txt");
26
27    public static void main(String[] args) {
28        try {
29            getPermissions(spyFiles, spyData, permByAppFile);
30            getPermissions(popFiles, popData, permByAppFile);
31            getCategories();
32            List<Entry<String, Permissions>> sortedSpy = countPermissions(spyData, spyMap, spyCount);
33            List<Entry<String, Permissions>> sortedPop = countPermissions(popData, popMap, popCount);
34            comparePermissions(sortedSpy, sortedPop);
35        } catch (IOException e) {
36            e.printStackTrace();
37        }
38    }
39    // Reads all permissions from set of apps (spyware or popular) and writes to file
40    static void getPermissions(File[] files, File dataTxt, File labeledTxt) throws IOException {
41        String line;
42        String prefix = "<uses-permission android:name=\"";
43        BufferedWriter bw1 = new BufferedWriter(new FileWriter(dataTxt));
44        BufferedWriter bw2 = new BufferedWriter(new FileWriter(labeledTxt, true));
45
46        for (File file : files) {
47            BufferedReader br = new BufferedReader(new FileReader(file));
48            // Used to filter out repeated permissions within the same XML file
49            HashSet<String> uniquePerms = new HashSet<>();
50            bw2.write(file.toString() + "\n");
51            while ((line = br.readLine()) != null) {
52                if (line.contains(prefix)) {
53                    String[] result = line.split("\\\"");
54                    if (!uniquePerms.contains(result[1])) {
55                        bw1.write(result[1] + "\n");
56                        bw2.write(result[1] + "\n");
57                        uniquePerms.add(result[1]);
58                    }
59                }
60            }
61            bw2.write("\n");
62            br.close();
63        }
64        bw1.close();
65        bw2.close();
66    }
67    // Reads categorized permissions (normal, dangerous, signature, or removed) and adds to set for use in
68    // program
68    static void getCategories() throws IOException {
69        BufferedReader br = new BufferedReader(new FileReader(permFile));
70        String line;
71
72        if ((br.readLine()).equals("Dangerous")) {
73            while (!(line = br.readLine()).equals("")) {
74                dangerous.add(line);
75            }
76        }
77        if ((br.readLine()).equals("Normal")) {

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78         while (!(line = br.readLine()).equals("")) {
79             normal.add(line);
80         }
81     }
82     if ((br.readLine()).equals("Signature")) {
83         while (!(line = br.readLine()).equals("")) {
84             signature.add(line);
85         }
86     }
87     if ((br.readLine()).equals("Removed")) {
88         while (!(line = br.readLine()).equals("")) {
89             removed.add(line);
90         }
91     }
92     if ((br.readLine()).equals("Other")) {
93         while ((line = br.readLine()) != null) {
94             other.add(line);
95         }
96     }
97     br.close();
98 }
99 // Counts repeated permissions and outputs to file sorted by type and descending count
100 static List<Entry<String, Permissions>> countPermissions(File txt, Map<String, Permissions> map, File
countTxt)
101 throws IOException {
102     String line;
103     boolean isNormal = false;
104     boolean isDangerous = false;
105     boolean isSignature = false;
106     boolean isRemoved = false;
107     boolean isOther = false;
108     BufferedReader br = new BufferedReader(new FileReader(txt));
109     BufferedWriter bw = new BufferedWriter(new FileWriter(countTxt));
110
111     while ((line = br.readLine()) != null) {
112         if (map.containsKey(line)) {
113             map.get(line).increaseCount();
114         } else {
115             if (normal.contains(line)) {
116                 map.put(line, new Permissions(1, "normal"));
117                 isNormal = true;
118             }
119             if (!isNormal) {
120                 if (dangerous.contains(line)) {
121                     map.put(line, new Permissions(1, "dangerous"));
122                     isDangerous = true;
123                 }
124             }
125             if (!isNormal && !isDangerous) {
126                 if (signature.contains(line)) {
127                     map.put(line, new Permissions(1, "signature"));
128                     isSignature = true;
129                 }
130             }
131             if (!isNormal && !isDangerous && !isSignature) {
132                 if (removed.contains(line)) {
133                     map.put(line, new Permissions(1, "removed"));
134                     isRemoved = true;
135                 }
136             }
137             if (!isNormal && !isDangerous && !isSignature && !isRemoved) {
138                 if (other.contains(line)) {
139                     map.put(line, new Permissions(1, "other"));
140                     isOther = true;
141                 }
142             }
143             if (!isNormal && !isDangerous && !isSignature && !isRemoved && !isOther) {
144                 map.put(line, new Permissions(1, "unknown"));
145             }
146             isNormal = false;
147             isDangerous = false;
148             isSignature = false;
149             isRemoved = false;
150             isOther = false;
151         }
152     }
153     br.close();
154 }
```

```

155     List<Entry<String, Permissions>> sortedEntries = new ArrayList<>(map.entrySet());
156     Collections.sort(sortedEntries, Entry.comparingByValue(Comparator.comparing(Permissions::getType)
157         .thenComparing(Permissions::getCount, Comparator.reverseOrder())));
158
159     for (Entry<String, Permissions> entry : sortedEntries) {
160         int count = entry.getValue().getCount();
161         String type = entry.getValue().getType();
162         String name = entry.getKey();
163         double percentIncl = ((double)count / 20) * 100;
164
165         bw.write(count + " " + type + " " + name + " " + String.format("%,.0f", percentIncl) + "%\n");
166     }
167     bw.close();
168
169     return sortedEntries;
170 }
171 // Returns shared and unique permissions
172 static void comparePermissions(List<Entry<String, Permissions>> sp, List<Entry<String, Permissions>> pp)
173     throws IOException {
174     BufferedWriter bw1 = new BufferedWriter(new FileWriter(sharedPerms));
175     BufferedWriter bw2 = new BufferedWriter(new FileWriter(uniquePerms));
176     List<String> spyList = new ArrayList<>();
177     List<String> popList = new ArrayList<>();
178     List<String> sharedList;
179     List<String> uniqueSpyList;
180     List<String> uniquePopList;
181     String type;
182     double percentIncl;
183     double spyPer;
184     double popPer;
185
186     for (Entry<String, Permissions> e : sp) {
187         spyList.add(e.getKey());
188     }
189
190     for (Entry<String, Permissions> e : pp) {
191         popList.add(e.getKey());
192     }
193
194     sharedList = ListUtils.intersection(spyList, popList);
195     uniqueSpyList = ListUtils.subtract(spyList, popList);
196     uniquePopList = ListUtils.subtract(popList, spyList);
197     Collections.sort(sharedList);
198     Collections.sort(uniqueSpyList);
199     Collections.sort(uniquePopList);
200
201     for (String e : sharedList) {
202         type = spyMap.get(e).getType();
203         spyPer = ((double)(spyMap.get(e).getCount()) / 20) * 100;
204         popPer = ((double)(popMap.get(e).getCount()) / 20) * 100;
205         percentIncl = ((double)(spyMap.get(e).getCount() + popMap.get(e).getCount()) / 40) * 100;
206         bw1.write(type + " " + e + " " + String.format("%,.0f", spyPer) + "% "
207             + String.format("%,.0f", popPer) + "% " + String.format("%,.0f", percentIncl) + "%\n");
208     }
209
210     bw2.write("Spyware\n");
211     for (String e : uniqueSpyList) {
212         type = spyMap.get(e).getType();
213         percentIncl = ((double)spyMap.get(e).getCount() / 20) * 100;
214         bw2.write(type + " " + e + " " + String.format("%,.0f", percentIncl) + "%\n");
215     }
216     bw2.write("\nPopular\n");
217     for (String e : uniquePopList) {
218         type = popMap.get(e).getType();
219         percentIncl = ((double)popMap.get(e).getCount() / 20) * 100;
220         bw2.write(type + " " + e + " " + String.format("%,.0f", percentIncl) + "%\n");
221     }
222
223     bw1.close();
224     bw2.close();
225 }
226 }
227

```

```
1 Dangerous
2 android.app.action.DEVICE_ADMIN_ENABLED
3 android.permission.ACCESS_BACKGROUND_LOCATION
4 android.permission.ACCESS_COARSE_LOCATION
5 android.permission.ACCESS_FINE_LOCATION
6 android.permission.ACCESS_MEDIA_LOCATION
7 android.permission.ACCESS_SUPERUSER
8 android.permission.ACTIVITY_RECOGNITION
9 android.permission.ADD_VOICEMAIL
10 android.permission.ANSWER_PHONE_CALLS
11 android.permission.BODY_SENSORS
12 android.permission.CALL_LOG
13 android.permission.CALL_PHONE
14 android.permission.CAMERA
15 android.permission.GET_ACCOUNTS
16 android.permission.PROCESS_OUTGOING_CALLS
17 android.permission.READ_CALENDAR
18 android.permission.READ_CALL_LOG
19 android.permission.READ_CONTACTS
20 android.permission.READ_EXTERNAL_STORAGE
21 android.permission.READ_PHONE_NUMBERS
22 android.permission.READ_PHONE_STATE
23 android.permission.READ_SMS
24 android.permission.RECEIVE_MMS
25 android.permission.READ_EXTERNAL_STORAGE
26 android.permission.RECEIVE_SMS
27 android.permission.RECEIVE_WAP_PUSH
28 android.permission.RECORD_AUDIO
29 android.permission.SEND_SMS
30 android.permission.USE_SIP
31 android.permission.WRITE_CALENDAR
32 android.permission.WRITE_CALL_LOG
33 android.permission.WRITE_CONTACTS
34 android.permission.WRITE_EXTERNAL_STORAGE
35
36 Normal
37 android.permission.ACCESS_LOCATION_EXTRA_COMMANDS
38 android.permission.ACCESS_NETWORK_STATE
39 android.permission.ACCESS_NOTIFICATION_POLICY
40 android.permission.ACCESS_WIFI_STATE
41 android.permission.BLUETOOTH
42 android.permission.BLUETOOTH_ADMIN
43 android.permission.BROADCAST_STICKY
44 android.permission.CHANGE_NETWORK_STATE
45 android.permission.CHANGE_WIFI_MULTICAST_STATE
46 android.permission.CHANGE_WIFI_STATE
47 android.permission.DISABLE_KEYGUARD
48 android.permission.DOWNLOAD_WITHOUT_NOTIFICATION
49 android.permission.EXPAND_STATUS_BAR
50 android.permission.FOREGROUND_SERVICE
51 android.permission.GET_PACKAGE_SIZE
52 android.permission.GET_TASKS
53 android.permission.INSTALL_SHORTCUT
54 android.permission.INTERNET
55 android.permission.KILL_BACKGROUND_PROCESSES
56 android.permission.MANAGE_OWN_CALLS
57 android.permission.MODIFY_AUDIO_SETTINGS
58 android.permission.NFC
59 android.permission.PERSISTENT_ACTIVITY
60 android.permission.READ_SYNC_SETTINGS
61 android.permission.READ_SYNC_STATS
62 android.permission.RECEIVE_BOOT_COMPLETED
63 android.permission.REORDER_TASKS
64 android.permission.REQUEST_COMPANION_RUN_IN_BACKGROUND
65 android.permission.REQUEST_COMPANION_USE_DATA_IN_BACKGROUND
66 android.permission.REQUEST_DELETE_PACKAGES
67 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
68 android.permission.RESTART_PACKAGES
69 android.permission.SET_ALARM
70 android.permission.SET_WALLPAPER
71 android.permission.SET_WALLPAPER_HINTS
72 android.permission.TRANSMIT_IR
73 android.permission.USE_BIOMETRIC
74 android.permission.USE_FINGERPRINT
75 android.permission.USE_FULL_SCREEN_INTENT
76 android.permission.VIBRATE
77 android.permission.WAKE_LOCK
78 android.permission.WRITE_SYNC_SETTINGS
```

```
79 com.android.alarm.permission.SET_ALARM
80 com.android.launcher.permission.INSTALL_SHORTCUT
81 com.android.launcher.permission.UNINSTALL_SHORTCUT
82
83 Signature
84 android.permission.BATTERY_STATS
85 android.permission.BIND_ACCESSIBILITY_SERVICE
86 android.app.action.BIND_DEVICE_ADMIN
87 android.permission.BIND_NOTIFICATION_LISTENER_SERVICE
88 android.permission.CAPTURE_AUDIO_OUTPUT
89 android.permission.CHANGE_CONFIGURATION
90 android.permission.INTERACT_ACROSS_USERS
91 android.permission.INTERACT_ACROSS_USERS_FULL
92 android.permission.MANAGE_DEVICE ADMINS
93 android.permission.MANAGE_DOCUMENTS
94 android.permission.MANAGE_USERS
95 android.permission.MODIFY_PHONE_STATE
96 android.permission.OVERRIDE_WIFI_CONFIG
97 android.permission.PACKAGE_USAGE_STATS
98 android.permission.READ_LOGS
99 android.permission.READ_PRIVILEGED_PHONE_STATE
100 android.permission.REBOOT
101 android.permission.REQUEST_INSTALL_PACKAGES
102 android.permission.STATUS_BAR
103 android.permission.SYSTEM_ALERT_WINDOW
104 android.permission.TETHER_PRIVILEGED
105 android.permission.UPDATE_APP_OPS_STATS
106 android.permission.WRITE_SECURE_SETTINGS
107 android.permission.WRITE_SETTINGS
108 com.android.launcher.permission.WRITE_SETTINGS
109
110 Removed
111 android.permission.AUTHENTICATE_ACCOUNTS
112 android.permission.FLASHLIGHT
113 android.permission.MANAGE_ACCOUNTS
114 android.permission.READ_HISTORY_BOOKMARKS
115 android.permission.READ_PROFILE
116 android.permission.READ_USER_DICTIONARY
117 android.permission.SUBSCRIBED_FEEDS_READ
118 android.permission.SUBSCRIBED_FEEDS_WRITE
119 android.permission.USE_CREDENTIALS
120 android.permission.WRITE_SMS
121 android.permission.WRITE_USER_DICTIONARY
122 com.android.browser.permission.READ_HISTORY_BOOKMARKS
123 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
124
125 Other
126 com.amazon.device.messaging.permission.RECEIVE
127 com.android.launcher.permission.READ_SETTINGS
128 com.anddoes.launcher.permission.UPDATE_COUNT
129 com.android.vending.BILLING
130 com.facebook.katana.provider.ACCESS
131 com.facebook.mlite.provider.ACCESS
132 com.facebook.orca.provider.ACCESS
133 com.facebook.permission.prod.FB_APP_COMMUNICATION
134 com.facebook.receiver.permission.ACCESS
135 com.google.android.c2dm.permission.RECEIVE
136 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
137 com.google.android.gms.permission.ACTIVITY_RECOGNITION
138 com.google.android.providers.gsf.permission.READ_GSERVICES
139 com.htc.launcher.permission.READ_SETTINGS
140 com.htc.launcher.permission.UPDATE_SHORTCUT
141 com.huawei.android.launcher.permission.CHANGE_BADGE
142 com.huawei.android.launcher.permission.READ_SETTINGS
143 com.huawei.android.launcher.permission.WRITE_SETTINGS
144 com.majeur.launcher.permission.UPDATE_BADGE
145 com.nokia.pushnotifications.permission.RECEIVE
146 com.oppo.launcher.permission.READ_SETTINGS
147 com.oppo.launcher.permission.WRITE_SETTINGS
148 com.sec.android.provider.badge.permission.READ
149 com.sec.android.provider.badge.permission.WRITE
150 com.sonyericsson.home.permission.BROADCAST_BADGE
151 com.sonymobile.home.permission.PROVIDER_INSERT_BADGE
152 me.everything.badger.permission.BADGE_COUNT_READ
153 me.everything.badger.permission.BADGE_COUNT_WRITE
```

```
1 src\res\spyware\AllTracker.txt
2 android.permission.READ_SMS
3 android.permission.RECEIVE_SMS
4 android.permission.READ_CALL_LOG
5 android.permission.PROCESS_OUTGOING_CALLS
6 android.permission.INTERNET
7 com.google.android.c2dm.permission.RECEIVE
8 android.permission.WAKE_LOCK
9 android.permission.GET_ACCOUNTS
10 android.permission.SYSTEM_ALERT_WINDOW
11 android.permission.USE_CREDENTIALS
12 android.permission.ACCESS_NETWORK_STATE
13 android.permission.ACCESS_WIFI_STATE
14 android.permission.CHANGE_WIFI_STATE
15 android.permission.ACCESS_COARSE_LOCATION
16 android.permission.ACCESS_FINE_LOCATION
17 android.permission.CAMERA
18 android.permission.WRITE_EXTERNAL_STORAGE
19 android.permission.READ_EXTERNAL_STORAGE
20 android.permission.GET_TASKS
21 android.permission.RECORD_AUDIO
22 android.permission.READ_CONTACTS
23 android.permission.READ_PHONE_STATE
24 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
25 android.permission.RECEIVE_BOOT_COMPLETED
26 com.android.browser.permission.READ_HISTORY_BOOKMARKS
27 com.android.launcher.permission.INSTALL_SHORTCUT
28 com.android.launcher.permission.UNINSTALL_SHORTCUT
29 android.permission.CAPTURE_AUDIO_OUTPUT
30 android.permission.ACCESS_SUPERUSER
31 android.permission.READ_CALENDAR
32 android.permission.BIND_NOTIFICATION_LISTENER_SERVICE
33 android.permission.VIBRATE
34 android.permission.MODIFY_AUDIO_SETTINGS
35 android.permission.REQUEST_INSTALL_PACKAGES
36 android.permission.PACKAGE_USAGE_STATS
37 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
38 android.permission.ACCESS_BACKGROUND_LOCATION
39
40 src\res\spyware\AndroidManger.txt
41 android.permission.INTERNET
42 android.permission.WAKE_LOCK
43 android.permission.SET_ALARM
44 android.permission.BROADCAST_STICKY
45 android.permission.WRITE_EXTERNAL_STORAGE
46 android.permission.WRITE_INTERNAL_STORAGE
47 android.permission.READ_EXTERNAL_STORAGE
48 android.permission.BLUETOOTH
49 android.permission.ACCESS_COARSE_LOCATION
50 android.permission.ACCESS_FINE_LOCATION
51 android.permission.ACCESS_LOCATION_EXTRA_COMMANDS
52 android.permission.ACCESS_NETWORK_STATE
53 android.permission.ACCESS_WIFI_STATE
54 android.permission.CHANGE_NETWORK_STATE
55 android.permission.CHANGE_WIFI_STATE
56 android.permission.CHANGE_WIFI_MULTICAST_STATE
57 android.permission.GET_ACCOUNTS
58 android.permission.USE_CREDENTIALS
59 android.permission.GET_PACKAGE_SIZE
60 android.permission.READ_CALL_LOG
61 android.permission.PROCESS_OUTGOING_CALLS
62 android.permission.READ_SMS
63 android.permission.READ_CONTACTS
64 android.permission.READ_CALENDAR
65 android.permission.READ_HISTORY_BOOKMARKS
66 android.permission.READ_PHONE_STATE
67 android.permission.READ_PROFILE
68 android.permission.READ_SYNC_SETTINGS
69 android.permission.READ_SYNC_STATS
70 android.permission.RECEIVE_BOOT_COMPLETED
71 android.permission.RECEIVE_MMS
72 android.permission.RECEIVE_SMS
73 com.google.android.gm.permission.READ_GMAIL
74 com.google.android.providers.gmail.permission.READ_GMAIL
75 com.android.browser.permission.READ_HISTORY_BOOKMARKS
76 com.android.email.permission.ACCESS_PROVIDER
77 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
78 com.google.android.c2dm.permission.RECEIVE
```

```
79 com.ibm.fb.permission.C2D_MESSAGE
80 android.permission.ACCESS_BACKGROUND_LOCATION
81
82 src\res\spyware\CellTrackerKids.xml
83 android.permission.INTERNET
84 android.permission.ACCESS_NETWORK_STATE
85 android.permission.WAKE_LOCK
86 android.permission.ACCESS_COARSE_LOCATION
87 android.permission.ACCESS_FINE_LOCATION
88 android.permission.READ_PHONE_STATE
89 android.permission.READ_CONTACTS
90 android.permission.RECEIVE_BOOT_COMPLETED
91
92 src\res\spyware\Cerberus.xml
93 android.permission.READ_SMS
94 android.permission.WRITE_SMS
95 android.permission.SEND_SMS
96 android.permission.RECEIVE_SMS
97 android.permission.READ_CALL_LOG
98 android.permission.PROCESS_OUTGOING_CALLS
99 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
100 com.google.android.c2dm.permission.RECEIVE
101 android.permission.ACCESS_COARSE_LOCATION
102 android.permission.ACCESS_FINE_LOCATION
103 android.permission.WRITE_SETTINGS
104 android.permission.WRITE_SECURE_SETTINGS
105 android.permission.RECORD_AUDIO
106 android.permission.READ_PHONE_STATE
107 android.permission.MODIFY_PHONE_STATE
108 android.permission.ACCESS_NETWORK_STATE
109 android.permission.CHANGE_NETWORK_STATE
110 android.permission.READ_CONTACTS
111 android.permission.ACCESS_WIFI_STATE
112 android.permission.CHANGE_WIFI_STATE
113 android.permission.INTERNET
114 android.permission.WAKE_LOCK
115 android.permission.RECEIVE_BOOT_COMPLETED
116 android.permission.WRITE_EXTERNAL_STORAGE
117 com.android.vending.BILLING
118 android.permission.CAMERA
119 com.latedroid.juicedefender.permission.CONTROL_JUICEDEFENDER
120 com.latedroid.juicedefender.permission.TOGGLE_MOBILE_DATA
121 net.dinglisch.android.tasker.PERMISSION_RUN_TASKS
122 android.permission.CALL_PHONE
123 android.permission.MODIFY_AUDIO_SETTINGS
124 android.permission.SYSTEM_ALERT_WINDOW
125 android.permission.VIBRATE
126 android.permission.GET_ACCOUNTS
127 android.permission.MANAGE_ACCOUNTS
128 android.permission.UPDATE_APP_OPS_STATS
129 android.permission.STATUS_BAR
130 android.permission.BLUETOOTH
131 android.permission.BLUETOOTH_ADMIN
132 android.permission.NFC
133 android.permission.INTERACT_ACROSS_USERS
134 android.permission.MANAGE_USERS
135 android.permission.MANAGE_DEVICE_HELPERS
136 com.google.android.gms.permission.ACTIVITY_RECOGNITION
137 android.permission.USE_FINGERPRINT
138 android.permission.READ_PRIVILEGED_PHONE_STATE
139 android.permission.OVERRIDE_WIFI_CONFIG
140 android.permission.ACCESS_NOTIFICATION_POLICY
141 android.permission.TETHER_PRIVILEGED
142 android.permission.ACCESS_BACKGROUND_LOCATION
143 android.permission.USE_FULL_SCREEN_INTENT
144 android.permission.USE_BIOMETRIC
145 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
146
147 src\res\spyware\CloneWhatsWebPro.txt
148 android.permission.INTERNET
149 android.permission.RECORD_AUDIO
150 android.permission.CAMERA
151 android.permission.MODIFY_AUDIO_SETTINGS
152 android.webkit.PermissionRequest
153 android.permission.ACCESS_NETWORK_STATE
154 android.permission.WRITE_EXTERNAL_STORAGE
155 android.permission.READ_EXTERNAL_STORAGE
156 android.permission.ACCESS_MEDIA_LOCATION
```

```
157  
158 src\res\spyware\ControlBySMS.xml  
159 android.permission.RECEIVE_SMS  
160 android.permission.WAKE_LOCK  
161 android.permission.DISABLE_KEYGUARD  
162 android.permission.GET_TASKS  
163 android.permission.KILL_BACKGROUND_PROCESSES  
164 android.permission.RESTART_PACKAGES  
165 android.permission.SEND_SMS  
166 android.permission.CALL_PHONE  
167 android.permission.READ_PHONE_STATE  
168 android.permission.READ_CONTACTS  
169 android.permission.MODIFY_AUDIO_SETTINGS  
170  
171 src\res\spyware\FamiSafe.xml  
172 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS  
173 android.permission.READ_CONTACTS  
174 android.permission.ACCESS_COARSE_LOCATION  
175 android.permission.ACCESS_FINE_LOCATION  
176 android.permission.ACCESS_NETWORK_STATE  
177 android.permission.ACCESS_WIFI_STATE  
178 android.permission.CHANGE_WIFI_STATE  
179 android.permission.INTERNET  
180 android.permission.RECEIVE_BOOT_COMPLETED  
181 android.permission.SYSTEM_ALERT_WINDOW  
182 android.permission.WRITE_EXTERNAL_STORAGE  
183 android.permission.FOREGROUND_SERVICE  
184 android.permission.REQUEST_DELETE_PACKAGES  
185 com.samsung.android.providers.context.permission.WRITE_USE_APP_FEATURE_SURVEY  
186 com.google.android.gms.permission.ACTIVITY_RECOGNITION  
187 android.permission.WAKE_LOCK  
188 android.permission.PACKAGE_USAGE_STATS  
189 com.google.android.c2dm.permission.RECEIVE  
190 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE  
191 android.permission.READ_EXTERNAL_STORAGE  
192 com.android.vending.BILLING  
193  
194 src\res\spyware\GirlfriendCellTracker.xml  
195 android.permission.CAMERA  
196 android.permission.INTERNET  
197 com.android.vending.BILLING  
198 android.permission.ACCESS_WIFI_STATE  
199 android.permission.READ_CALL_LOG  
200 android.permission.READ_PHONE_STATE  
201 android.permission.RECEIVE_SMS  
202 android.permission.READ_SMS  
203 android.permission.SEND_SMS  
204 android.permission.READ_CONTACTS  
205 android.permission.ACCESS_FINE_LOCATION  
206 android.permission.ACCESS_COARSE_LOCATION  
207 android.permission.WAKE_LOCK  
208 android.permission.ACCESS_NETWORK_STATE  
209 android.permission.READ_EXTERNAL_STORAGE  
210 android.permission.WRITE_EXTERNAL_STORAGE  
211 android.permission.CALL_PHONE  
212 com.google.android.c2dm.permission.RECEIVE  
213 com.omrups.cell.tracker.permission.C2D_MESSAGE  
214  
215 src\res\spyware\HighsterMobile.xml  
216 com.highstermob.main.permission.MAPS_RECEIVE  
217 android.permission.INTERNET  
218 android.permission.ACCESS_NETWORK_STATE  
219 android.permission.WRITE_EXTERNAL_STORAGE  
220 com.google.android.providers.gsf.permission.READ_GSERVICES  
221 android.permission.ACCESS_COARSE_LOCATION  
222 android.permission.ACCESS_FINE_LOCATION  
223 android.permission.CALL_PHONE  
224 android.permission.WAKE_LOCK  
225 com.highstermob.main.permission.C2D_MESSAGE  
226 com.google.android.c2dm.permission.RECEIVE  
227 android.permission.VIBRATE  
228  
229 src\res\spyware\Hoverwatch.xml  
230 android.permission.RECEIVE_SMS  
231 android.permission.ACCESS_FINE_LOCATION  
232 android.permission.ACCESS_COARSE_LOCATION  
233 android.permission.ACCESS_NETWORK_STATE  
234 android.permission.ACCESS_WIFI_STATE
```

```
235 android.permission.READ_CONTACTS
236 android.permission.READ_CALENDAR
237 android.permission.READ_SMS
238 android.permission.READ_CALL_LOG
239 android.permission.WRITE_CALL_LOG
240 android.permission.READ_PHONE_NUMBERS
241 android.permission.READ_PHONE_STATE
242 android.permission.PROCESS_OUTGOING_CALLS
243 android.permission.READ_PRIVILEGED_PHONE_STATE
244 android.permission.READ_LOGS
245 android.permission.WRITE_EXTERNAL_STORAGE
246 android.permission.READ_EXTERNAL_STORAGE
247 android.permission.PACKAGE_USAGE_STATS
248 com.android.browser.permission.READ_HISTORY_BOOKMARKS
249 android.permission.INTERNET
250 android.permission.GET_TASKS
251 android.permission.RECEIVE_BOOT_COMPLETED
252 android.permission.BLUETOOTH
253 android.permission.RECORD_AUDIO
254 android.permission.MODIFY_AUDIO_SETTINGS
255 android.permission.FOREGROUND_SERVICE
256 android.permission.INTERACT_ACROSS_USERS
257 android.permission.INTERACT_ACROSS_USERS_FULL
258 android.permission.REQUEST_DELETE_PACKAGES
259 android.permission.WAKE_LOCK
260 android.permission.CAMERA
261 android.permission.WRITE_SETTINGS
262
263 src\res\spyware\iKeyMonitor.xml
264 android.permission.REBOOT
265 android.permission.RECEIVE_BOOT_COMPLETED
266 android.permission.PACKAGE_USAGE_STATS
267 android.permission.GET_TASKS
268 android.permission.READ_EXTERNAL_STORAGE
269 android.permission.WRITE_EXTERNAL_STORAGE
270 android.permission.INTERNET
271 android.permission.GET_ACCOUNTS
272 android.permission.READ_SMS
273 android.permission.RECEIVE_SMS
274 android.permission.WRITE_CALL_LOG
275 android.permission.READ_CALL_LOG
276 android.permission.CALL_PHONE
277 android.permission.READ_CONTACTS
278 android.permission.READ_LOGS
279 android.permission.WRITE_LOGS
280 android.permission.READ_PHONE_STATE
281 android.permission.READ_PRIVILEGED_PHONE_STATE
282 android.permission.PROCESS_OUTGOING_CALLS
283 android.permission.ACCESS_FINE_LOCATION
284 com.android.browser.permission.READ_HISTORY_BOOKMARKS
285 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
286 android.permission.VIBRATE
287 android.permission.READ_USER_DICTIONARY
288 android.permission.WRITE_USER_DICTIONARY
289 android.permission.ACCESS_NETWORK_STATE
290 android.permission.ACCESS_WIFI_STATE
291 android.permission.ACCESS_COARSE_LOCATION
292 android.permission.INTERACT_ACROSS_USERS_FULL
293 android.app.action.DEVICE_ADMIN_ENABLED
294 android.app.action.BIND_DEVICE_ADMIN
295 android.permission.READ_CALENDAR
296 android.permission.MODIFY_AUDIO_SETTINGS
297 android.permission.RECORD_AUDIO
298 android.permission.BIND_ACCESSIBILITY_SERVICE
299 android.permission.READ_PROFILE
300 com.android.launcher.permission.INSTALL_SHORTCUT
301 com.android.launcher.permission.UNINSTALL_SHORTCUT
302 com.android.launcher.permission.READ_SETTINGS
303 com.android.launcher.permission.WRITE_SETTINGS
304 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
305 android.permission.CAMERA
306 android.permission.SYSTEM_ALERT_WINDOW
307 android.permission.BLUETOOTH
308 android.permission.REQUEST_INSTALL_PACKAGES
309 android.permission.RESTART_PACKAGES
310 android.permission.REQUEST_DELETE_PACKAGES
311 android.permission.WRITE_SECURE_SETTINGS
312 android.permission.WRITE_SETTINGS
```

313 android.permission.WAKE\_LOCK  
314 com.google.android.c2dm.permission.RECEIVE  
315 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
316 android.permission.WRITE\_CONTACTS  
317  
318 src\res\spyware\IPWebcam.txt  
319 android.permission.INTERNET  
320 android.permission.ACCESS\_NETWORK\_STATE  
321 android.permission.WAKE\_LOCK  
322 android.permission.ACCESS\_WIFI\_STATE  
323 android.permission.RECEIVE\_BOOT\_COMPLETED  
324 android.permission.FOREGROUND\_SERVICE  
325 android.permission.WRITE\_EXTERNAL\_STORAGE  
326 android.permission.CAMERA  
327 android.permission.RECORD\_AUDIO  
328 android.permission.SYSTEM\_ALERT\_WINDOW  
329 android.permission.ACCESS\_COARSE\_LOCATION  
330 android.permission.ACCESS\_FINE\_LOCATION  
331 com.google.android.c2dm.permission.RECEIVE  
332 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
333 android.permission.READ\_EXTERNAL\_STORAGE  
334 android.permission.ACCESS\_BACKGROUND\_LOCATION  
335 android.permission.ACCESS\_MEDIA\_LOCATION  
336  
337 src\res\spyware\iSpyoo.txt  
338 android.permission.FLASHLIGHT  
339 android.permission.SYSTEM\_ALERT\_WINDOW  
340 com.android.browser.permission.READ\_HISTORY\_BOOKMARKS  
341 android.permission.READ\_CALENDAR  
342 android.permission.CAMERA  
343 android.permission.READ\_CONTACTS  
344 android.permission.GET\_ACCOUNTS  
345 android.permission.ACCESS\_COARSE\_LOCATION  
346 android.permission.ACCESS\_FINE\_LOCATION  
347 android.permission.ACCESS\_BACKGROUND\_LOCATION  
348 android.permission.RECORD\_AUDIO  
349 android.permission.MODIFY\_AUDIO\_SETTINGS  
350 android.permission.READ\_PHONE\_STATE  
351 android.permission.READ\_PHONE\_NUMBERS  
352 android.permission.READ\_CALL\_LOG  
353 android.permission.PROCESS\_OUTGOING\_CALLS  
354 android.permission.CALL\_PHONE  
355 android.permission.READ\_SMS  
356 android.permission.RECEIVE\_SMS  
357 android.permission.RECEIVE\_MMS  
358 android.permission.SEND\_SMS  
359 android.permission.WRITE\_EXTERNAL\_STORAGE  
360 android.permission.READ\_EXTERNAL\_STORAGE  
361 android.permission.INTERNET  
362 android.permission.ACCESS\_NETWORK\_STATE  
363 android.permission.ACCESS\_WIFI\_STATE  
364 android.permission.CHANGE\_WIFI\_STATE  
365 android.permission.CHANGE\_NETWORK\_STATE  
366 android.permission.WAKE\_LOCK  
367 android.permission.RECEIVE\_BOOT\_COMPLETED  
368 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
369 android.permission.ACCESS\_SUPERUSER  
370 android.permission.FOREGROUND\_SERVICE  
371 android.permission.REQUEST\_DELETE\_PACKAGES  
372 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
373 com.google.android.c2dm.permission.RECEIVE  
374  
375 src\res\spyware\Mrecorder.txt  
376 android.permission.ACCESS\_FINE\_LOCATION  
377 android.permission.ACCESS\_COARSE\_LOCATION  
378 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
379 android.permission.RECORD\_AUDIO  
380 android.permission.INTERNET  
381 android.permission.READ\_PHONE\_STATE  
382 android.permission.READ\_SMS  
383 android.permission.READ\_CALL\_LOG  
384 android.permission.RECEIVE\_BOOT\_COMPLETED  
385 android.permission.READ\_CONTACTS  
386 android.permission.ACCESS\_WIFI\_STATE  
387 android.permission.ACCESS\_NETWORK\_STATE  
388 android.permission.CHANGE\_WIFI\_STATE  
389 android.permission.CHANGE\_NETWORK\_STATE  
390 android.permission.PROCESS\_OUTGOING\_CALLS

391 android.permission.CAMERA  
392 android.permission.READ\_EXTERNAL\_STORAGE  
393 android.permission.GET\_ACCOUNTS  
394 android.permission.READ\_PROFILE  
395 android.permission.WAKE\_LOCK  
396 com.google.android.c2dm.permission.RECEIVE  
397 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
398 android.permission.ACCESS\_BACKGROUND\_LOCATION  
399 android.permission.ACCESS\_MEDIA\_LOCATION  
400  
401 src\res\spyware\ScreenRecorder.txt  
402 android.permission.RECORD\_AUDIO  
403 android.permission.WRITE\_EXTERNAL\_STORAGE  
404 android.permission.WRITE\_SETTINGS  
405 android.permission.SYSTEM\_ALERT\_WINDOW  
406 android.permission.READ\_EXTERNAL\_STORAGE  
407 android.permission.INTERNET  
408 android.permission.ACCESS\_WIFI\_STATE  
409 android.permission.ACCESS\_NETWORK\_STATE  
410 android.permission.WAKE\_LOCK  
411 android.permission.ACCESS\_MEDIA\_LOCATION  
412  
413 src\res\spyware\SMSForwarder.txt  
414 android.permission.READ\_CALL\_LOG  
415 android.permission.AUTHENTICATE\_ACCOUNTS  
416 android.permission.GET\_ACCOUNTS  
417 android.permission.INTERNET  
418 android.permission.RECEIVE\_SMS  
419 android.permission.USE\_CREDENTIALS  
420 android.permission.WAKE\_LOCK  
421 android.permission.ACCESS\_NETWORK\_STATE  
422 android.permission.ACCESS\_WIFI\_STATE  
423 android.permission.RECEIVE\_BOOT\_COMPLETED  
424 android.permission.WRITE\_EXTERNAL\_STORAGE  
425 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
426 android.permission.READ\_PHONE\_STATE  
427 android.permission.READ\_CONTACTS  
428 android.permission.FOREGROUND\_SERVICE  
429 android.permission.READ\_EXTERNAL\_STORAGE  
430 android.permission.ACCESS\_MEDIA\_LOCATION  
431  
432 src\res\spyware\SpyGPSSMCallController.xml  
433 com.dspark.phone.modefind.permission.MAPS\_RECEIVE  
434 android.permission.WRITE\_EXTERNAL\_STORAGE  
435 android.permission.READ\_PHONE\_STATE  
436 android.permission.CHANGE\_WIFI\_STATE  
437 android.permission.INTERNET  
438 android.permission.GET\_ACCOUNTS  
439 android.permission.RECEIVE\_BOOT\_COMPLETED  
440 android.permission.ACCESS\_WIFI\_STATE  
441 android.permission.ACCESS\_NETWORK\_STATE  
442 android.permission.PERSISTENT\_ACTIVITY  
443 android.permission.VIBRATE  
444 android.permission.WAKE\_LOCK  
445 android.permission.PROCESS\_OUTGOING\_CALLS  
446 com.google.android.c2dm.permission.RECEIVE  
447 com.dspark.phone.modefind.permission.C2D\_MESSAGE  
448 android.permission.ACCESS\_FINE\_LOCATION  
449 android.permission.ACCESS\_COARSE\_LOCATION  
450 android.permission.SYSTEM\_ALERT\_WINDOW  
451 android.permission.RECORD\_AUDIO  
452 com.android.vending.BILLING  
453 android.permission.BLUETOOTH\_ADMIN  
454 android.permission.RECEIVE\_SMS  
455 android.permission.WRITE\_SMS  
456 android.permission.BLUETOOTH  
457 android.permission.WRITE\_SETTINGS  
458 android.permission.CALL\_PHONE  
459 android.permission.READ\_CONTACTS  
460 android.permission.SEND\_SMS  
461 android.permission.READ\_SMS  
462 android.permission.READ\_EXTERNAL\_STORAGE  
463  
464 src\res\spyware\SpyToMobile.xml  
465 android.permission.ACCESS\_COARSE\_LOCATION  
466 android.permission.ACCESS\_FINE\_LOCATION  
467 android.permission.ACCESS\_LOCATION\_EXTRA\_COMMANDS  
468 android.permission.ACCESS\_NETWORK\_STATE

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469 android.permission.ACCESS_WIFI_STATE
470 android.permission.CHANGE_CONFIGURATION
471 android.permission.CHANGE_WIFI_STATE
472 android.permission.INTERNET
473 android.permission.READ_EXTERNAL_STORAGE
474 android.permission.READ_PHONE_STATE
475 android.permission.WAKE_LOCK
476 android.permission.WRITE_EXTERNAL_STORAGE
477 android.permission.WRITE_SETTINGS
478 android.permission.READ_CONTACTS
479 android.permission.READ_SMS
480 android.permission.BLUETOOTH
481 android.permission.PROCESS_OUTGOING_CALLS
482 android.permission.RECEIVE_BOOT_COMPLETED
483 android.permission.READ_CALL_LOG
484 android.permission.GET_ACCOUNTS
485 android.permission.ACCESS_SUPERUSER
486
487 src\res\spyware\TrackView.xml
488 android.permission.INTERNET
489 android.permission.ACCESS_NETWORK_STATE
490 android.permission.CAMERA
491 android.permission.WRITE_EXTERNAL_STORAGE
492 android.permission.MODIFY_AUDIO_SETTINGS
493 android.permission.RECORD_AUDIO
494 android.permission.WAKE_LOCK
495 android.permission.VIBRATE
496 android.permission.READ_PHONE_STATE
497 android.permission.CHANGE_WIFI_STATE
498 android.permission.ACCESS_WIFI_STATE
499 android.permission.FLASHLIGHT
500 com.android.vending.BILLING
501 android.permission.RECEIVE_BOOT_COMPLETED
502 android.permission.ACCESS_FINE_LOCATION
503 com.google.android.c2dm.permission.RECEIVE
504 com.trackview.permission.C2D_MESSAGE
505
506 src\res\spyware\Unseen.txt
507 android.permission.VIBRATE
508 android.permission.WRITE_EXTERNAL_STORAGE
509 android.permission.SYSTEM_ALERT_WINDOW
510 android.permission.INTERNET
511 android.permission.ACCESS_NETWORK_STATE
512 com.android.vending.BILLING
513 android.permission.WAKE_LOCK
514 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
515 com.google.android.c2dm.permission.RECEIVE
516 android.permission.READ_EXTERNAL_STORAGE
517
518 src\res\popular\Amazon.xml
519 com.amazon.mShop.android.shopping.permission.C2D_MESSAGE
520 com.android.launcher.permission.INSTALL_SHORTCUT
521 com.android.launcher.permission.READ_SETTINGS
522 amazon.permission.COLLECT_METRICS
523 android.permission.READ_CONTACTS
524 android.permission.WRITE_EXTERNAL_STORAGE
525 android.permission.READ_PHONE_STATE
526 android.permission.READ_EXTERNAL_STORAGE
527 android.permission.INTERNET
528 android.permission.ACCESS_NETWORK_STATE
529 android.permission.ACCESS_WIFI_STATE
530 android.permission.VIBRATE
531 android.permission.ACCESS_FINE_LOCATION
532 android.permission.WAKE_LOCK
533 com.google.android.c2dm.permission.RECEIVE
534 android.permission.FOREGROUND_SERVICE
535 com.amazon.dcp.metrics.permission.METRICS_PERMISSION
536 com.amazon.dcp.config.permission.DYN_CONFIG_VALUES_UPDATED
537 android.permission.GET_ACCOUNTS
538 android.permission.USE_CREDENTIALS
539 android.permission.MANAGE_ACCOUNTS
540 android.permission.AUTHENTICATE_ACCOUNTS
541 com.amazon.identity.auth.device.perm.AUTH_SDK
542 com.amazon.identity.permission.GENERIC_IPC
543 com.amazon.dcp.sso.permission.USE_DEVICE_CREDENTIALS
544 com.amazon.dcp.sso.permission.account.changed
545 com.amazon.dcp.sso.permission.MANAGE_COR_PFM
546 com.amazon.dcp.sso.permission.CUSTOMER_ATTRIBUTE_SERVICE
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547 com.amazon.identity.permission.CAN\_CALL\_MAP\_INFORMATION\_PROVIDER  
548 com.amazon.dcp.sso.permission.AmazonAccountPropertyService.property.changed  
549 com.amazon.identity.permission.CALL\_AMAZON\_DEVICE\_INFORMATION\_PROVIDER  
550 com.amazon.appmanager.preload.permission.READ\_PRELOAD\_DEVICE\_INFO\_PROVIDER  
551 android.permission.CHANGE\_WIFI\_STATE  
552 com.sec.android.provider.badge.permission.READ  
553 com.sec.android.provider.badge.permission.WRITE  
554 com.htc.launcher.permission.READ\_SETTINGS  
555 com.htc.launcher.permission.UPDATE\_SHORTCUT  
556 com.amazon.whas.API\_COMMUNICATION  
557 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
558 android.permission.RECORD\_AUDIO  
559 android.permission.USE\_FINGERPRINT  
560 android.permission.CAMERA  
561 android.permission.BLUETOOTH  
562 android.permission.BLUETOOTH\_ADMIN  
563 android.permission.ACCESS\_COARSE\_LOCATION  
564 android.permission.MODIFY\_AUDIO\_SETTINGS  
565 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
566 android.permission.ACTIVITY\_RECOGNITION  
567 android.permission.FLASHLIGHT  
568 android.permission.ACCESS\_BACKGROUND\_LOCATION  
569 com.amazon.whisperjoin.deviceprovisioningservice.WhiteListPolicyUpdate.Permission  
570 com.amazon.whisperjoin.deviceprovisioningservice.ArcusUpdate.Permission  
571 com.amazon.whisperjoin.deviceprovisioningservice.FFSServiceAction.permission  
572  
573 src\res\popular\AmongUs.xml  
574 android.permission.CHANGE\_WIFI\_MULTICAST\_STATE  
575 android.permission.INTERNET  
576 android.permission.ACCESS\_NETWORK\_STATE  
577 android.permission.WAKE\_LOCK  
578 com.android.vending.BILLING  
579  
580 src\res\popular\CashApp.txt  
581 android.permission.ACCESS\_COARSE\_LOCATION  
582 android.permission.ACCESS\_FINE\_LOCATION  
583 android.permission.ACCESS\_NETWORK\_STATE  
584 android.permission.ACCESS\_WIFI\_STATE  
585 android.permission.BLUETOOTH  
586 android.permission.BLUETOOTH\_ADMIN  
587 android.permission.CAMERA  
588 android.permission.INTERNET  
589 android.permission.READ\_CONTACTS  
590 android.permission.READ\_EXTERNAL\_STORAGE  
591 android.permission.READ\_PHONE\_STATE  
592 android.permission.READ\_PROFILE  
593 android.permission.RECEIVE\_BOOT\_COMPLETED  
594 android.permission.USE\_FINGERPRINT  
595 android.permission.VIBRATE  
596 android.permission.GET\_ACCOUNTS  
597 android.permission.USE\_BIOMETRIC  
598 com.google.android.providers.gsf.permission.READ\_GSERVICES  
599 android.permission.WAKE\_LOCK  
600 com.google.android.c2dm.permission.RECEIVE  
601 android.permission.NFC  
602 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
603 android.permission.WRITE\_EXTERNAL\_STORAGE  
604  
605 src\res\popular\Facebook.txt  
606 com.android.vending.BILLING  
607 android.permission.BLUETOOTH  
608 android.permission.BLUETOOTH\_ADMIN  
609 android.permission.WRITE\_SETTINGS  
610 android.permission.CALL\_PHONE  
611 android.permission.ACCESS\_COARSE\_LOCATION  
612 android.permission.WAKE\_LOCK  
613 android.permission.VIBRATE  
614 android.permission.READ\_CONTACTS  
615 android.permission.WRITE\_CONTACTS  
616 android.permission.GET\_ACCOUNTS  
617 android.permission.MANAGE\_ACCOUNTS  
618 android.permission.AUTHENTICATE\_ACCOUNTS  
619 android.permission.READ\_SYNC\_SETTINGS  
620 android.permission.WRITE\_SYNC\_SETTINGS  
621 android.permission.ACCESS\_FINE\_LOCATION  
622 android.permission.ACCESS\_NETWORK\_STATE  
623 android.permission.BROADCAST\_STICKY  
624 com.facebook.katana.provider.ACCESS

625 com.facebook.orca.provider.ACCESS  
626 com.facebook.mlite.provider.ACCESS  
627 com.facebook.pages.app.provider.ACCESS  
628 com.facebook.appmanager.UNPROTECTED\_API\_ACCESS  
629 android.permission.DOWNLOAD\_WITHOUT\_NOTIFICATION  
630 android.permission.NFC  
631 android.permission.CAMERA  
632 android.permission.RECORD\_AUDIO  
633 android.permission.WRITE\_EXTERNAL\_STORAGE  
634 com.facebook.permission.prod.FB\_APP\_COMMUNICATION  
635 android.permission.READ\_PHONE\_STATE  
636 android.permission.READ\_CALENDAR  
637 android.permission.WRITE\_CALENDAR  
638 android.permission.MODIFY\_AUDIO\_SETTINGS  
639 android.permission.READ\_PROFILE  
640 android.permission.CHANGE\_NETWORK\_STATE  
641 android.permission.CHANGE\_WIFI\_STATE  
642 android.permission.SYSTEM\_ALERT\_WINDOW  
643 com.google.android.providers.gsf.permission.READ\_GSERVICES  
644 android.permission.RECEIVE\_BOOT\_COMPLETED  
645 android.permission.GET\_TASKS  
646 android.permission.USE\_BIOMETRIC  
647 android.permission.USE\_FINGERPRINT  
648 android.permission.FOREGROUND\_SERVICE  
649 android.permission.INTERNET  
650 com.google.android.c2dm.permission.RECEIVE  
651 android.permission.READ\_EXTERNAL\_STORAGE  
652 android.permission.REQUEST\_INSTALL\_PACKAGES  
653 android.permission.ACCESS\_BACKGROUND\_LOCATION  
654 com.facebook.katana.permission.CROSS\_PROCESS\_BROADCAST\_MANAGER  
655 android.permission.BATTERY\_STATS  
656 android.permission.ACCESS\_WIFI\_STATE  
657 com.android.launcher.permission.INSTALL\_SHORTCUT  
658 com.facebook.receiver.permission.ACCESS  
659 com.sec.android.provider.badge.permission.READ  
660 com.sec.android.provider.badge.permission.WRITE  
661 com.htc.launcher.permission.READ\_SETTINGS  
662 com.htc.launcher.permission.UPDATE\_SHORTCUT  
663 com.sonyericsson.home.permission.BROADCAST\_BADGE  
664 com.facebook.katana.permission.RECEIVE ADM MESSAGE  
665 com.amazon.device.messaging.permission.RECEIVE  
666 com.nokia.pushnotifications.permission.RECEIVE  
667 com.facebook.katana.permission.CREATE\_SHORTCUT  
668  
669 src\res\popular\Gmail.txt  
670 android.permission.AUTHENTICATE\_ACCOUNTS  
671 android.permission.ACCESS\_NETWORK\_STATE  
672 android.permission.GET\_ACCOUNTS  
673 android.permission.MANAGE\_ACCOUNTS  
674 android.permission.INTERNET  
675 android.permission.READ\_CONTACTS  
676 android.permission.WRITE\_CONTACTS  
677 android.permission.READ\_CALENDAR  
678 android.permission.WRITE\_CALENDAR  
679 android.permission.READ\_SYNC\_SETTINGS  
680 android.permission.READ\_SYNC\_STATS  
681 android.permission.RECEIVE\_BOOT\_COMPLETED  
682 android.permission.SUBSCRIBED\_FEEDS\_READ  
683 android.permission.SUBSCRIBED\_FEEDS\_WRITE  
684 android.permission.USE\_CREDENTIALS  
685 android.permission.VIBRATE  
686 android.permission.WAKE\_LOCK  
687 android.permission.WRITE\_SYNC\_SETTINGS  
688 android.permission.WRITE\_EXTERNAL\_STORAGE  
689 com.google.android.gm.permission.READ\_GMAIL  
690 com.google.android.gm.permission.WRITE\_GMAIL  
691 com.google.android.googleapps.permission.GOOGLE\_AUTH  
692 com.google.android.googleapps.permission.GOOGLE\_AUTH.mail  
693 com.google.android.providers.gsf.permission.READ\_GSERVICES  
694 com.google.android.gm.permission.AUTO\_SEND  
695 com.google.android.voicesearch.AUDIO\_FILE\_ACCESS  
696 android.permission.DOWNLOAD\_WITHOUT\_NOTIFICATION  
697 android.permission.NFC  
698 com.google.android.gm.email.permission.READ\_ATTACHMENT  
699 com.google.android.email.permission.READ\_ATTACHMENT  
700 com.google.android.gm.email.permission.ACCESS\_PROVIDER  
701 com.google.android.email.permission.ACCESS\_PROVIDER  
702 android.permission.READ\_PROFILE

703 android.permission.READ\_EXTERNAL\_STORAGE  
704  
705 src\res\popular\GoogleMaps.txt  
706 android.permission.INTERNET  
707 com.google.android.providers.gsf.permission.READ\_GSERVICES  
708 android.permission.WRITE\_EXTERNAL\_STORAGE  
709 android.permission.ACCESS\_COARSE\_LOCATION  
710 android.permission.ACCESS\_FINE\_LOCATION  
711 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
712 android.permission.GET\_ACCOUNTS  
713 android.permission.MANAGE\_ACCOUNTS  
714 android.permission.USE\_CREDENTIALS  
715 android.permission.DISABLE\_KEYGUARD  
716 android.permission.ACCESS\_WIFI\_STATE  
717 android.permission.ACCESS\_NETWORK\_STATE  
718 android.permission.CHANGE\_WIFI\_STATE  
719 com.google.android.c2dm.permission.RECEIVE  
720 com.google.android.apps.maps.permission.C2D\_MESSAGE  
721 android.permission.VIBRATE  
722 android.permission.NFC  
723 android.permission.READ\_CONTACTS  
724 com.google.android.apps.maps.permission.PREFETCH  
725 android.permission.WAKE\_LOCK  
726 android.permission.READ\_PHONE\_STATE  
727 android.permission.RECEIVE\_BOOT\_COMPLETED  
728 android.permission.BLUETOOTH  
729 android.permission.BLUETOOTH\_ADMIN  
730 android.permission.CALL\_PHONE  
731 android.permission.BROADCAST\_STICKY  
732 android.permission.READ\_EXTERNAL\_STORAGE  
733  
734 src\res\popular\Instagram.xml  
735 android.permission.INTERNET  
736 android.permission.ACCESS\_NETWORK\_STATE  
737 android.permission.WAKE\_LOCK  
738 android.permission.GET\_ACCOUNTS  
739 android.permission.USE\_CREDENTIALS  
740 android.permission.RECEIVE\_BOOT\_COMPLETED  
741 android.permission.VIBRATE  
742 android.permission.FOREGROUND\_SERVICE  
743 android.permission.USE\_FULL\_SCREEN\_INTENT  
744 com.google.android.c2dm.permission.RECEIVE  
745 android.permission.CAMERA  
746 android.permission.READ\_CONTACTS  
747 android.permission.READ\_PROFILE  
748 android.permission.ACCESS\_FINE\_LOCATION  
749 android.permission.RECORD\_AUDIO  
750 android.permission.MODIFY\_AUDIO\_SETTINGS  
751 android.permission.WRITE\_EXTERNAL\_STORAGE  
752 android.permission.ACCESS\_MEDIA\_LOCATION  
753 android.permission.READ\_PHONE\_STATE  
754 com.android.launcher.permission.INSTALL\_SHORTCUT  
755 com.android.launcher.permission.UNINSTALL\_SHORTCUT  
756 com.instagram.direct.permission.PROTECTED\_DEEPLINKING  
757 com.instagram.direct.permission.DIRECT\_APP\_THREAD\_STORE\_SERVICE  
758 com.htc.launcher.permission.READ\_SETTINGS  
759 com.htc.launcher.permission.UPDATE\_SHORTCUT  
760 com.huawei.android.launcher.permission.CHANGE\_BADGE  
761 com.sonyericsson.home.permission.BROADCAST\_BADGE  
762 android.permission.USE\_BIOMETRIC  
763 android.permission.USE\_FINGERPRINT  
764 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
765 .permission.RECEIVE\_ADM\_MESSAGE  
766 com.amazon.device.messaging.permission.RECEIVE  
767  
768 src\res\popular\Lyft.xml  
769 android.permission.ACCESS\_COARSE\_LOCATION  
770 android.permission.ACCESS\_FINE\_LOCATION  
771 android.permission.ACCESS\_NETWORK\_STATE  
772 android.permission.CALL\_PHONE  
773 android.permission.CAMERA  
774 android.permission.INTERNET  
775 android.permission.READ\_CONTACTS  
776 android.permission.READ\_EXTERNAL\_STORAGE  
777 android.permission.READ\_PHONE\_STATE  
778 android.permission.VIBRATE  
779 android.permission.WRITE\_EXTERNAL\_STORAGE  
780 android.permission.READ\_CALENDAR

781 android.permission.BLUETOOTH  
782 android.permission.BLUETOOTH\_ADMIN  
783 com.google.android.providers.gsf.permission.READ\_GSERVICES  
784 android.permission.SYSTEM\_ALERT\_WINDOW  
785 com.google.android.c2dm.permission.RECEIVE  
786 android.permission.GET\_ACCOUNTS  
787 android.permission.WAKE\_LOCK  
788 android.permission.ACCESS\_WIFI\_STATE  
789 android.permission.CHANGE\_WIFI\_STATE  
790 android.permission.CHANGE\_WIFI\_MULTICAST\_STATE  
791 me.lyft.android.permission.C2D\_MESSAGE  
792 android.permission.USE\_BIOMETRIC  
793 android.permission.USE\_FINGERPRINT  
794 android.permission.RECEIVE\_BOOT\_COMPLETED  
795 android.permission.FOREGROUND\_SERVICE  
796  
797 src\res\popular\Messenger.txt  
798 com.android.vending.BILLING  
799 com.facebook.katana.provider.ACCESS  
800 android.permission.INTERNET  
801 android.permission.GET\_ACCOUNTS  
802 android.permission.ACCESS\_NETWORK\_STATE  
803 android.permission.WAKE\_LOCK  
804 android.permission.VIBRATE  
805 android.permission.READ\_CONTACTS  
806 android.permission.READ\_PROFILE  
807 android.permission.WRITE\_EXTERNAL\_STORAGE  
808 android.permission.READ\_PHONE\_STATE  
809 android.permission.ACCESS\_WIFI\_STATE  
810 android.permission.RECEIVE\_BOOT\_COMPLETED  
811 android.permission.READ\_SYNC\_SETTINGS  
812 android.permission.RECEIVE\_SMS  
813 android.permission.RECEIVE\_MMS  
814 android.permission.READ\_SMS  
815 android.permission.WRITE\_SMS  
816 android.permission.SEND\_SMS  
817 android.permission.CHANGE\_NETWORK\_STATE  
818 android.permission.RECORD\_AUDIO  
819 android.permission.SYSTEM\_ALERT\_WINDOW  
820 android.permission.CALL\_PHONE  
821 android.permission.MODIFY\_AUDIO\_SETTINGS  
822 android.permission.DOWNLOAD\_WITHOUT\_NOTIFICATION  
823 android.permission.AUTHENTICATE\_ACCOUNTS  
824 android.permission.MANAGE\_ACCOUNTS  
825 android.permission.WRITE\_CONTACTS  
826 android.permission.WRITE\_SYNC\_SETTINGS  
827 android.permission.BLUETOOTH  
828 android.permission.NFC  
829 com.facebook.orca.provider.ACCESS  
830 com.facebook.permission.prod.FB\_APP\_COMMUNICATION  
831 com.facebook.mlite.provider.ACCESS  
832 android.permission.CAMERA  
833 android.permission.ACCESS\_FINE\_LOCATION  
834 android.permission.ACCESS\_COARSE\_LOCATION  
835 com.google.android.providers.gsf.permission.READ\_GSERVICES  
836 com.huawei.android.launcher.permission.CHANGE\_BADGE  
837 android.permission.USE\_FULL\_SCREEN\_INTENT  
838 android.permission.READ\_CALENDAR  
839 android.permission.FOREGROUND\_SERVICE  
840 android.permission.USE\_BIOMETRIC  
841 android.permission.USE\_FINGERPRINT  
842 com.google.android.c2dm.permission.RECEIVE  
843 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
844 android.permission.READ\_EXTERNAL\_STORAGE  
845 com.facebook.orca.permission.CROSS\_PROCESS\_BROADCAST\_MANAGER  
846 com.android.launcher.permission.INSTALL\_SHORTCUT  
847 com.facebook.receiver.permission.ACCESS  
848 com.sec.android.provider.badge.permission.READ  
849 com.sec.android.provider.badge.permission.WRITE  
850 com.htc.launcher.permission.READ\_SETTINGS  
851 com.htc.launcher.permission.UPDATE\_SHORTCUT  
852 com.sonyericsson.home.permission.BROADCAST\_BADGE  
853 android.permission.BLUETOOTH\_ADMIN  
854 android.permission.CHANGE\_WIFI\_STATE  
855 com.facebook.orca.permission.RECEIVE\_ADM\_MESSAGE  
856 com.amazon.device.messaging.permission.RECEIVE  
857 com.nokia.pushnotifications.permission.RECEIVE  
858 com.facebook.orca.permission.CREATE\_SHORTCUT

859 android.permission.MANAGE\_OWN\_CALLS  
860  
861 src\res\popular\Netflix.txt  
862 com.android.vending.BILLING  
863 com.netflix.mediaclient.permission.C2D\_MESSAGE  
864 com.netflix.partner.activation.permission.CHANNEL\_ID  
865 android.permission.ACCESS\_NETWORK\_STATE  
866 android.permission.ACCESS\_WIFI\_STATE  
867 android.permission.BLUETOOTH  
868 android.permission.CHANGE\_WIFI\_MULTICAST\_STATE  
869 android.permission.INTERNET  
870 android.permission.READ\_PHONE\_STATE  
871 android.permission.WAKE\_LOCK  
872 android.permission.RECORD\_AUDIO  
873 android.permission.MODIFY\_AUDIO\_SETTINGS  
874 android.permission.WRITE\_EXTERNAL\_STORAGE  
875 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
876 com.amazon.permission.SET\_FLAG\_NOSOFTKEYS  
877 com.google.android.c2dm.permission.RECEIVE  
878 android.permission.READ\_EXTERNAL\_STORAGE  
879 android.permission.ACCESS\_MEDIA\_LOCATION  
880 android.permission.ACTIVITY\_RECOGNITION  
881  
882 src\res\popular\PokemonGo.txt  
883 com.android.vending.BILLING  
884 android.permission.VIBRATE  
885 android.permission.BLUETOOTH  
886 android.permission.BLUETOOTH\_ADMIN  
887 android.permission.ACCESS\_FINE\_LOCATION  
888 android.permission.FOREGROUND\_SERVICE  
889 android.permission.WRITE\_EXTERNAL\_STORAGE  
890 android.permission.INTERNET  
891 android.permission.GET\_ACCOUNTS  
892 android.permission.USE\_CREDENTIALS  
893 android.permission.ACCESS\_NETWORK\_STATE  
894 android.permission.WAKE\_LOCK  
895 android.permission.ACCESS\_WIFI\_STATE  
896 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
897 android.permission.CAMERA  
898 android.permission.READ\_EXTERNAL\_STORAGE  
899 android.permission.ACCESS\_COARSE\_LOCATION  
900 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
901 android.permission.RECEIVE\_BOOT\_COMPLETED  
902 com.nianticlabs.pokemongo.bgcore.util.contentProviderPermission  
903 com.google.android.c2dm.permission.RECEIVE  
904 android.permission.ACCESS\_BACKGROUND\_LOCATION  
905 android.permission.ACCESS\_MEDIA\_LOCATION  
906 android.permission.ACTIVITY\_RECOGNITION  
907  
908 src\res\popular\Seamless.txt  
909 android.permission.INTERNET  
910 android.permission.ACCESS\_COARSE\_LOCATION  
911 android.permission.ACCESS\_FINE\_LOCATION  
912 android.permission.ACCESS\_NETWORK\_STATE  
913 android.permission.CAMERA  
914 android.permission.VIBRATE  
915 android.permission.READ\_PHONE\_STATE  
916 android.permission.READ\_EXTERNAL\_STORAGE  
917 android.permission.NFC  
918 android.permission.WAKE\_LOCK  
919 android.permission.ACCESS\_WIFI\_STATE  
920 android.permission.CHANGE\_WIFI\_STATE  
921 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
922 android.permission.RECEIVE\_BOOT\_COMPLETED  
923 android.permission.FOREGROUND\_SERVICE  
924 com.google.android.c2dm.permission.RECEIVE  
925  
926 src\res\popular\Snapchat.xml  
927 android.permission.WAKE\_LOCK  
928 android.permission.CAMERA  
929 android.permission.RECORD\_AUDIO  
930 android.permission.WRITE\_EXTERNAL\_STORAGE  
931 android.permission.FLASHLIGHT  
932 android.permission.READ\_PHONE\_STATE  
933 android.permission.READ\_CONTACTS  
934 com.snapchat.android.permission.UPDATE\_STICKER\_INDEX  
935 android.permission.ACCESS\_FINE\_LOCATION  
936 android.permission.FOREGROUND\_SERVICE

937 android.permission.BLUETOOTH  
938 android.permission.MODIFY\_AUDIO\_SETTINGS  
939 android.permission.ACCESS\_NETWORK\_STATE  
940 android.permission.GET\_ACCOUNTS  
941 android.permission.READ\_PROFILE  
942 android.permission.VIBRATE  
943 android.permission.BLUETOOTH\_ADMIN  
944 android.permission.READ\_EXTERNAL\_STORAGE  
945 android.permission.USE\_FULL\_SCREEN\_INTENT  
946 android.permission.CHANGE\_WIFI\_STATE  
947 android.permission.ACCESS\_WIFI\_STATE  
948 android.permission.INTERNET  
949 android.permission.CHANGE\_NETWORK\_STATE  
950 android.permission.RECEIVE\_BOOT\_COMPLETED  
951 com.google.android.c2dm.permission.RECEIVE  
952 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
953 com.snapchat.android.permission.C2D\_MESSAGE  
954 com.sec.android.provider.badge.permission.READ  
955 com.sec.android.provider.badge.permission.WRITE  
956 com.htc.launcher.permission.READ\_SETTINGS  
957 com.htc.launcher.permission.UPDATE\_SHORTCUT  
958 com.sonyericsson.home.permission.BROADCAST\_BADGE  
959 com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE  
960 com.anddoes.launcher.permission.UPDATE\_COUNT  
961 com.majeur.launcher.permission.UPDATE\_BADGE  
962 com.huawei.android.launcher.permission.CHANGE\_BADGE  
963 com.huawei.android.launcher.permission.READ\_SETTINGS  
964 com.huawei.android.launcher.permission.WRITE\_SETTINGS  
965 android.permission.READ\_APP\_BADGE  
966 com.oppo.launcher.permission.READ\_SETTINGS  
967 com.oppo.launcher.permission.WRITE\_SETTINGS  
968 me.everything.badger.permission.BADGE\_COUNT\_READ  
969 me.everything.badger.permission.BADGE\_COUNT\_WRITE  
970  
971 src\res\popular\Spotify.xml  
972 android.permission.INTERNET  
973 android.permission.ACCESS\_NETWORK\_STATE  
974 android.permission.RECEIVE\_BOOT\_COMPLETED  
975 android.permission.CHANGE\_WIFI\_MULTICAST\_STATE  
976 android.permission.WAKE\_LOCK  
977 android.permission.FOREGROUND\_SERVICE  
978 com.android.providers.tv.permission.READ\_EPG\_DATA  
979 com.android.providers.tv.permission.WRITE\_EPG\_DATA  
980 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
981 com.google.android.c2dm.permission.RECEIVE  
982  
983 src\res\popular\TikTok.xml  
984 android.permission.INTERNET  
985 android.permission.ACCESS\_NETWORK\_STATE  
986 android.permission.READ\_EXTERNAL\_STORAGE  
987 android.permission.WRITE\_EXTERNAL\_STORAGE  
988 android.permission.ACCESS\_WIFI\_STATE  
989 android.permission.CAMERA  
990 android.permission.RECORD\_AUDIO  
991 android.permission.FLASHLIGHT  
992 android.permission.WAKE\_LOCK  
993 android.permission.GET\_TASKS  
994 android.permission.READ\_CONTACTS  
995 android.permission.RECEIVE\_BOOT\_COMPLETED  
996 android.permission.VIBRATE  
997 com.meizu.c2dm.permission.RECEIVE  
998 com.zhiliaapp.musically.permission.READ\_ACCOUNT  
999 com.zhiliaapp.musically.permission.WRITE\_ACCOUNT  
1000 com.android.launcher.permission.INSTALL\_SHORTCUT  
1001 com.android.launcher.permission.UNINSTALL\_SHORTCUT  
1002 com.android.launcher.permission.READ\_SETTINGS  
1003 android.permission.AUTHENTICATE\_ACCOUNTS  
1004 com.htc.launcher.permission.READ\_SETTINGS  
1005 com.lge.launcher.permission.READ\_SETTINGS  
1006 com.lge.launcher.permission.WRITE\_SETTINGS  
1007 com.huawei.launcher3.permission.READ\_SETTINGS  
1008 com.huawei.launcher3.permission.WRITE\_SETTINGS  
1009 com.huawei.launcher2.permission.READ\_SETTINGS  
1010 com.huawei.launcher2.permission.WRITE\_SETTINGS  
1011 com.ebproductions.android.launcher.permission.READ\_SETTINGS  
1012 com.ebproductions.android.launcher.permission.WRITE\_SETTINGS  
1013 com.oppo.launcher.permission.READ\_SETTINGS  
1014 com.oppo.launcher.permission.WRITE\_SETTINGS

1015 com.huawei.android.launcher.permission.READ\_SETTINGS  
1016 com.huawei.android.launcher.permission.WRITE\_SETTINGS  
1017 dianxin.permission.ACCESS\_LAUNCHER\_DATA  
1018 com.miui.mihome2.permission.READ\_SETTINGS  
1019 com.miui.mihome2.permission.WRITE\_SETTINGS  
1020 android.permission.FOREGROUND\_SERVICE  
1021 com.zhiliaomusically.livewallpaper.permission.wallpaperplugin  
1022 com.zhiliaoapp.musically.permission.MIPUSH\_RECEIVE  
1023 com.zhiliaoapp.musically.push.permission.MESSAGE  
1024 com.meizu.flyme.push.permission.RECEIVE  
1025 android.permission.WRITE\_SYNC\_SETTINGS  
1026 com.sec.android.provider.badge.permission.READ  
1027 com.sec.android.provider.badge.permission.WRITE  
1028 com.htc.launcher.permission.UPDATE\_SHORTCUT  
1029 com.sonyericsson.home.permission.BROADCAST\_BADGE  
1030 com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE  
1031 com.majeur.launcher.permission.UPDATE\_BADGE  
1032 android.permission.MODIFY\_AUDIO\_SETTINGS  
1033 com.android.vending.BILLING  
1034 com.zhiliaoapp.musically.miniapp.PROCESS\_COMMUNICATION  
1035 android.permission.REORDER\_TASKS  
1036 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
1037 com.google.android.c2dm.permission.RECEIVE  
1038 com.zhiliaoapp.musically.permission.RECEIVE ADM\_MESSAGE  
1039 com.amazon.device.messaging.permission.RECEIVE  
1040 com.huawei.android.launcher.permission.CHANGE\_BADGE  
1041 android.permission.READ\_APP\_BADGE  
1042 me.everything.badger.permission.BADGE\_COUNT\_READ  
1043 me.everything.badger.permission.BADGE\_COUNT\_WRITE  
1044 android.permission.UPDATE\_APP\_BADGE  
1045 com.vivo.notification.permission.BADGE\_ICON  
1046  
1047 src\res\popular\Twitter.xml  
1048 com.twitter.android.permission.RESTRICTED  
1049 android.permission.MODIFY\_AUDIO\_SETTINGS  
1050 android.permission.INTERNET  
1051 android.permission.VIBRATE  
1052 android.permission.READ\_PROFILE  
1053 android.permission.READ\_CONTACTS  
1054 android.permission.WAKE\_LOCK  
1055 android.permission.WRITE\_EXTERNAL\_STORAGE  
1056 com.twitter.android.permission.READ\_DATA  
1057 com.google.android.providers.gsf.permission.READ\_GSERVICES  
1058 com.android.launcher.permission.INSTALL\_SHORTCUT  
1059 android.permission.READ\_PHONE\_STATE  
1060 android.permission.CAMERA  
1061 android.permission.RECORD\_AUDIO  
1062 android.permission.GET\_ACCOUNTS  
1063 android.permission.ACCESS\_NETWORK\_STATE  
1064 android.permission.SYSTEM\_ALERT\_WINDOW  
1065 android.permission.ACCESS\_FINE\_LOCATION  
1066 android.permission.ACCESS\_COARSE\_LOCATION  
1067 android.permission.AUTHENTICATE\_ACCOUNTS  
1068 android.permission.MANAGE\_ACCOUNTS  
1069 android.permission.USE\_CREDENTIALS  
1070 android.permission.READ\_SYNC\_SETTINGS  
1071 android.permission.WRITE\_SYNC\_SETTINGS  
1072 com.huawei.android.launcher.permission.READ\_SETTINGS  
1073 com.huawei.android.launcher.permission.WRITE\_SETTINGS  
1074 com.huawei.android.launcher.permission.CHANGE\_BADGE  
1075 com.sonyericsson.home.permission.BROADCAST\_BADGE  
1076 com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE  
1077 com.sec.android.provider.badge.permission.READ  
1078 com.sec.android.provider.badge.permission.WRITE  
1079 com.oppo.launcher.permission.READ\_SETTINGS  
1080 com.oppo.launcher.permission.WRITE\_SETTINGS  
1081 com.htc.launcher.permission.READ\_SETTINGS  
1082 com.htc.launcher.permission.UPDATE\_SHORTCUT  
1083 com.anddoes.launcher.permission.UPDATE\_COUNT  
1084 android.permission.ACCESS\_WIFI\_STATE  
1085 com.google.android.c2dm.permission.RECEIVE  
1086 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
1087 android.permission.FOREGROUND\_SERVICE  
1088 android.permission.RECEIVE\_BOOT\_COMPLETED  
1089  
1090 src\res\popular\Uber.txt  
1091 com.google.android.c2dm.permission.RECEIVE  
1092 com.google.android.providers.gsf.permission.READ\_GSERVICES

1093 com.ubercab.permission.C2D\_MESSAGE  
1094 android.permission.USE\_BIOMETRIC  
1095 android.permission.USE\_FINGERPRINT  
1096 android.permission.WAKE\_LOCK  
1097 android.permission.ACCESS\_NETWORK\_STATE  
1098 android.permission.RECEIVE\_BOOT\_COMPLETED  
1099 android.permission.FOREGROUND\_SERVICE  
1100 android.permission.INTERNET  
1101 android.permission.READ\_PHONE\_STATE  
1102 android.permission.SYSTEM\_ALERT\_WINDOW  
1103 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
1104 android.permission.CAMERA  
1105 android.permission.WRITE\_EXTERNAL\_STORAGE  
1106 android.permission.READ\_EXTERNAL\_STORAGE  
1107 android.permission.MODIFY\_AUDIO\_SETTINGS  
1108 android.permission.ACCESS\_WIFI\_STATE  
1109 android.permission.BLUETOOTH  
1110 android.permission.BLUETOOTH\_ADMIN  
1111 android.permission.ACCESS\_FINE\_LOCATION  
1112 android.permission.VIBRATE  
1113 android.permission.READ\_SMS  
1114 android.permission.RECEIVE\_SMS  
1115 android.permission.ACCESS\_COARSE\_LOCATION  
1116 android.permission.CALL\_PHONE  
1117 android.permission.MANAGE\_ACCOUNTS  
1118 android.permission.READ\_CONTACTS  
1119 android.permission.SEND\_SMS  
1120 android.permission.USE\_CREDENTIALS  
1121 android.permission.RECORD\_AUDIO  
1122 android.permission.GET\_ACCOUNTS  
1123 android.permission.CHANGE\_NETWORK\_STATE  
1124  
1125 src\res\popular\WeatherChannel.xml  
1126 com.weather.Weather.permission.RECEIVE\_ADM\_MESSAGE  
1127 android.permission.INTERNET  
1128 android.permission.ACCESS\_COARSE\_LOCATION  
1129 android.permission.ACCESS\_FINE\_LOCATION  
1130 android.permission.ACCESS\_NETWORK\_STATE  
1131 android.permission.ACCESS\_WIFI\_STATE  
1132 android.permission.RECEIVE\_BOOT\_COMPLETED  
1133 android.permission.VIBRATE  
1134 com.google.android.c2dm.permission.RECEIVE  
1135 android.permission.USE\_CREDENTIALS  
1136 android.permission.WAKE\_LOCK  
1137 com.google.android.providers.gsf.permission.READ\_GSERVICES  
1138 com.amazon.device.messaging.permission.RECEIVE  
1139 com.android.vending.BILLING  
1140 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
1141  
1142 src\res\popular\WhatsApp.xml  
1143 android.permission.READ\_PHONE\_STATE  
1144 android.permission.RECEIVE\_SMS  
1145 android.permission.VIBRATE  
1146 android.permission.USE\_FINGERPRINT  
1147 android.permission.CAMERA  
1148 android.permission.USE\_BIOMETRIC  
1149 android.permission.ACCESS\_COARSE\_LOCATION  
1150 android.permission.ACCESS\_FINE\_LOCATION  
1151 android.permission.ACCESS\_NETWORK\_STATE  
1152 android.permission.ACCESS\_WIFI\_STATE  
1153 android.permission.AUTHENTICATE\_ACCOUNTS  
1154 android.permission.BLUETOOTH  
1155 android.permission.BROADCAST\_STICKY  
1156 android.permission.CHANGE\_NETWORK\_STATE  
1157 android.permission.CHANGE\_WIFI\_STATE  
1158 android.permission.GET\_ACCOUNTS  
1159 android.permission.GET\_TASKS  
1160 android.permission.INSTALL\_SHORTCUT  
1161 android.permission.INTERNET  
1162 android.permission.MANAGE\_ACCOUNTS  
1163 android.permission.MANAGE\_OWN\_CALLS  
1164 android.permission.MODIFY\_AUDIO\_SETTINGS  
1165 android.permission.NFC  
1166 android.permission.READ\_CONTACTS  
1167 android.permission.READ\_PROFILE  
1168 android.permission.READ\_SYNC\_SETTINGS  
1169 android.permission.READ\_SYNC\_STATS  
1170 android.permission.RECEIVE\_BOOT\_COMPLETED

```
1171 android.permission.RECORD_AUDIO
1172 android.permission.SEND_SMS
1173 android.permission.USE_CREDENTIALS
1174 android.permission.WAKE_LOCK
1175 android.permission.WRITE_CONTACTS
1176 android.permission.WRITE_EXTERNAL_STORAGE
1177 android.permission.WRITE_SYNC_SETTINGS
1178 android.permission.REQUEST_INSTALL_PACKAGES
1179 android.permission.FOREGROUND_SERVICE
1180 android.permission.USE_FULL_SCREEN_INTENT
1181 com.android.launcher.permission.INSTALL_SHORTCUT
1182 com.android.launcher.permission.UNINSTALL_SHORTCUT
1183 com.google.android.c2dm.permission.RECEIVE
1184 com.google.android.providers.gsf.permission.READ_GSERVICES
1185 com.sec.android.provider.badge.permission.READ
1186 com.sec.android.provider.badge.permission.WRITE
1187 com.htc.launcher.permission.READ_SETTINGS
1188 com.htc.launcher.permission.UPDATE_SHORTCUT
1189 com.sonyericsson.home.permission.BROADCAST_BADGE
1190 com.sonymobile.home.permission.PROVIDER_INSERT_BADGE
1191 com.huawei.android.launcher.permission.READ_SETTINGS
1192 com.huawei.android.launcher.permission.WRITE_SETTINGS
1193 com.huawei.android.launcher.permission.CHANGE_BADGE
1194 com.whatsapp.permission.BROADCAST
1195 com.whatsapp.permission.MAPS_RECEIVE
1196 com.whatsapp.permission.REGISTRATION
1197 com.whatsapp.sticker.READ
1198 android.permission.READ_EXTERNAL_STORAGE
1199
1200 src\res\popular\YouTube.xml
1201 android.permission.INTERNET
1202 android.permission.ACCESS_NETWORK_STATE
1203 android.permission.ACCESS_WIFI_STATE
1204 android.permission.WRITE_EXTERNAL_STORAGE
1205 android.permission.RECEIVE_BOOT_COMPLETED
1206 android.permission.MANAGE_DOCUMENTS
1207 android.permission.GET_ACCOUNTS
1208 android.permission.MANAGE_ACCOUNTS
1209 android.permission.USE_CREDENTIALS
1210 com.google.android.providers.gsf.permission.READ_GSERVICES
1211 com.google.android.c2dm.permission.RECEIVE
1212 android.permission.WAKE_LOCK
1213 android.permission.NFC
1214 android.permission.CAMERA
1215 android.permission.VIBRATE
1216 com.google.android.gms.permission.AD_ID_NOTIFICATION
1217 com.google.android.youtube.permission.C2D_MESSAGE
1218 android.permission.GET_PACKAGE_SIZE
1219 android.permission.FOREGROUND_SERVICE
1220 android.permission.USE_FINGERPRINT
1221
1222
```

1 dangerous android.permission.ACCESS\_BACKGROUND\_LOCATION 30% 15% 23%  
2 dangerous android.permission.ACCESS\_COARSE\_LOCATION 70% 60% 65%  
3 dangerous android.permission.ACCESS\_FINE\_LOCATION 75% 70% 73%  
4 dangerous android.permission.ACCESS\_MEDIA\_LOCATION 25% 15% 20%  
5 normal android.permission.ACCESS\_NETWORK\_STATE 95% 100% 98%  
6 normal android.permission.ACCESS\_WIFI\_STATE 75% 80% 78%  
7 removed android.permission.AUTHENTICATE\_ACCOUNTS 5% 35% 20%  
8 normal android.permission.BLUETOOTH 30% 55% 43%  
9 normal android.permission.BLUETOOTH\_ADMIN 10% 45% 28%  
10 normal android.permission.BROADCAST\_STICKY 5% 15% 10%  
11 dangerous android.permission.CALL\_PHONE 35% 25% 30%  
12 dangerous android.permission.CAMERA 50% 70% 60%  
13 normal android.permission.CHANGE\_NETWORK\_STATE 20% 25% 23%  
14 normal android.permission.CHANGE\_WIFI\_MULTICAST\_STATE 5% 20% 13%  
15 normal android.permission.CHANGE\_WIFI\_STATE 45% 40% 43%  
16 normal android.permission.DISABLE\_KEYGUARD 5% 5% 5%  
17 removed android.permission.FLASHLIGHT 10% 15% 13%  
18 normal android.permission.FOREGROUND\_SERVICE 25% 70% 48%  
19 dangerous android.permission.GET\_ACCOUNTS 45% 70% 57%  
20 normal android.permission.GET\_PACKAGE\_SIZE 5% 5% 5%  
21 normal android.permission.GET\_TASKS 20% 15% 18%  
22 normal android.permission.INTERNET 95% 100% 98%  
23 removed android.permission.MANAGE\_ACCOUNTS 5% 45% 25%  
24 normal android.permission.MODIFY\_AUDIO\_SETTINGS 40% 50% 45%  
25 normal android.permission.NFC 5% 40% 23%  
26 dangerous android.permission.READ\_CALENDAR 25% 20% 23%  
27 dangerous android.permission.READ\_CONTACTS 70% 65% 68%  
28 dangerous android.permission.READ\_EXTERNAL\_STORAGE 75% 70% 73%  
29 dangerous android.permission.READ\_PHONE\_STATE 70% 65% 68%  
30 removed android.permission.READ\_PROFILE 15% 40% 28%  
31 dangerous android.permission.READ\_SMS 50% 10% 30%  
32 normal android.permission.READ\_SYNC\_SETTINGS 5% 25% 15%  
33 normal android.permission.READ\_SYNC\_STATS 5% 10% 8%  
34 normal android.permission.RECEIVE\_BOOT\_COMPLETED 70% 85% 78%  
35 dangerous android.permission.RECEIVE\_MMS 10% 5% 8%  
36 dangerous android.permission.RECEIVE\_SMS 50% 15% 33%  
37 dangerous android.permission.RECORD\_AUDIO 55% 50% 53%  
38 signature android.permission.REQUEST\_INSTALL\_PACKAGES 10% 10% 10%  
39 dangerous android.permission.SEND\_SMS 25% 15% 20%  
40 signature android.permission.SYSTEM\_ALERT\_WINDOW 45% 25% 35%  
41 normal android.permission.USE\_BIOMETRIC 5% 35% 20%  
42 removed android.permission.USE\_CREDENTIALS 15% 50% 33%  
43 normal android.permission.USE\_FINGERPRINT 5% 45% 25%  
44 normal android.permission.USE\_FULL\_SCREEN\_INTENT 5% 20% 13%  
45 normal android.permission.VIBRATE 35% 85% 60%  
46 normal android.permission.WAKE\_LOCK 95% 100% 98%  
47 dangerous android.permission.WRITE\_CONTACTS 5% 20% 13%  
48 dangerous android.permission.WRITE\_EXTERNAL\_STORAGE 85% 80% 83%  
49 signature android.permission.WRITE\_SETTINGS 30% 5% 18%  
50 removed android.permission.WRITE\_SMS 10% 5% 8%  
51 normal com.android.launcher.permission.INSTALL\_SHORTCUT 10% 35% 23%  
52 other com.android.launcher.permission.READ\_SETTINGS 5% 10% 8%  
53 normal com.android.launcher.permission.UNINSTALL\_SHORTCUT 10% 15% 13%  
54 other com.android.vending.BILLING 30% 35% 33%  
55 other com.google.android.c2dm.permission.RECEIVE 65% 90% 78%  
56 other com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE 40% 60% 50%  
57 unknown com.google.android.gm.permission.READ\_GMAIL 5% 5% 5%  
58 other com.google.android.gms.permission.ACTIVITY\_RECOGNITION 10% 20% 15%  
59 other com.google.android.providers.gsf.permission.READ\_GSERVICES 5% 55% 30%  
60

```

1 Spyware
2 signature android.app.action.BIND_DEVICE_ADMIN 5%
3 dangerous android.app.action.DEVICE_ADMIN_ENABLED 5%
4 normal android.permission.ACCESS_LOCATION_EXTRA_COMMANDS 10%
5 normal android.permission.ACCESS_NOTIFICATION_POLICY 5%
6 dangerous android.permission.ACCESS_SUPERUSER 15%
7 signature android.permission.BIND_ACCESSIBILITY_SERVICE 5%
8 signature android.permission.BIND_NOTIFICATION_LISTENER_SERVICE 5%
9 signature android.permission.CAPTURE_AUDIO_OUTPUT 5%
10 signature android.permission.CHANGE_CONFIGURATION 5%
11 signature android.permission.INTERACT_ACROSS_USERS 10%
12 signature android.permission.INTERACT_ACROSS_USERS_FULL 10%
13 normal android.permission.KILL_BACKGROUND_PROCESSES 5%
14 signature android.permission.MANAGE_DEVICE_ADMINS 5%
15 signature android.permission.MANAGE_USERS 5%
16 signature android.permission.MODIFY_PHONE_STATE 5%
17 signature android.permission.OVERRIDE_WIFI_CONFIG 5%
18 signature android.permission.PACKAGE_USAGE_STATS 20%
19 normal android.permission.PERSISTENT_ACTIVITY 5%
20 dangerous android.permission.PROCESS_OUTGOING_CALLS 45%
21 dangerous android.permission.READ_CALL_LOG 50%
22 removed android.permission.READ_HISTORY_BOOKMARKS 5%
23 signature android.permission.READ_LOGS 10%
24 dangerous android.permission.READ_PHONE_NUMBERS 10%
25 signature android.permission.READ_PRIVILEGED_PHONE_STATE 15%
26 removed android.permission.READ_USER_DICTIONARY 5%
27 signature android.permission.REBOOT 5%
28 normal android.permission.REQUEST_DELETE_PACKAGES 20%
29 normal android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS 35%
30 normal android.permission.RESTART_PACKAGES 10%
31 normal android.permission.SET_ALARM 5%
32 signature android.permission.STATUS_BAR 5%
33 signature android.permission.TETHER_PRIVILEGED 5%
34 signature android.permission.UPDATE_APP_OPS_STATS 5%
35 dangerous android.permission.WRITE_CALL_LOG 10%
36 unknown android.permission.WRITE_INTERNAL_STORAGE 5%
37 unknown android.permission.WRITE_LOGS 5%
38 signature android.permission.WRITE_SECURE_SETTINGS 10%
39 removed android.permission.WRITE_USER_DICTIONARY 5%
40 unknown android.webkit.PermissionRequest 5%
41 removed com.android.browser.permission.READ_HISTORY_BOOKMARKS 25%
42 removed com.android.browser.permission.WRITE_HISTORY_BOOKMARKS 10%
43 unknown com.android.email.permission.ACCESS_PROVIDER 5%
44 signature com.android.launcher.permission.WRITE_SETTINGS 5%
45 unknown com.dspark.phone.modefind.permission.C2D_MESSAGE 5%
46 unknown com.dspark.phone.modefind.permission.MAPS_RECEIVE 5%
47 unknown com.google.android.providers.gmail.permission.READ_GMAIL 5%
48 unknown com.highstermob.main.permission.C2D_MESSAGE 5%
49 unknown com.highstermob.main.permission.MAPS_RECEIVE 5%
50 unknown com.ibm.fb.permission.C2D_MESSAGE 5%
51 unknown com.latedroid.juicedefender.permission.CONTROL_JUICEDEFENDER 5%
52 unknown com.latedroid.juicedefender.permission.TOGGLE_MOBILE_DATA 5%
53 unknown com.omrup.cell.tracker.permission.C2D_MESSAGE 5%
54 unknown com.samsung.android.providers.context.permission.WRITE_USE_APP_FEATURE_SURVEY 5%
55 unknown com.trackview.permission.C2D_MESSAGE 5%
56 unknown net.dinglisch.android.tasker.PERMISSION_RUN_TASKS 5%
57
58 Popular
59 unknown .permission.RECEIVE_ADM_MESSAGE 5%
60 unknown amazon.permission.COLLECT_METRICS 5%
61 dangerous android.permission.ACTIVITY_RECOGNITION 15%
62 signature android.permission.BATTERY_STATS 5%
63 normal android.permission.DOWNLOAD_WITHOUT_NOTIFICATION 15%
64 normal android.permission.INSTALL_SHORTCUT 5%
65 signature android.permission.MANAGE_DOCUMENTS 5%
66 normal android.permission.MANAGE_OWN_CALLS 10%
67 unknown android.permission.READ_APP_BADGE 10%
68 normal android.permission.REORDER_TASKS 5%
69 removed android.permission.SUBSCRIBED_FEEDS_READ 5%
70 removed android.permission.SUBSCRIBED_FEEDS_WRITE 5%
71 unknown android.permission.UPDATE_APP_BADGE 5%
72 dangerous android.permission.WRITE_CALENDAR 10%
73 normal android.permission.WRITE_SYNC_SETTINGS 30%
74 unknown com.amazon.appmanager.preload.permission.READ_PRELOAD_DEVICE_INFO_PROVIDER 5%
75 unknown com.amazon.dcp.config.permission.DYN_CONFIG_VALUES_UPDATED 5%
76 unknown com.amazon.dcp.metrics.permission.METRICS_PERMISSION 5%
77 unknown com.amazon.dcp.sso.permission.AmazonAccountPropertyService.property.changed 5%
78 unknown com.amazon.dcp.sso.permission.CUSTOMER_ATTRIBUTE_SERVICE 5%

```

79 unknown com.amazon.dcp.sso.permission.MANAGE\_COP\_FPM 5%  
 80 unknown com.amazon.dcp.sso.permission.USE\_DEVICE\_CREDENTIALS 5%  
 81 unknown com.amazon.dcp.sso.permission.account.changed 5%  
 82 other com.amazon.device.messaging.permission.RECEIVE 25%  
 83 unknown com.amazon.identity.auth.device.perm.AUTH\_SDK 5%  
 84 unknown com.amazon.identity.permission.CALL\_AMAZON\_DEVICE\_INFORMATION\_PROVIDER 5%  
 85 unknown com.amazon.identity.permission.CAN\_CALL\_MAP\_INFORMATION\_PROVIDER 5%  
 86 unknown com.amazon.identity.permission.GENERIC\_IPC 5%  
 87 unknown com.amazon.mShop.android.shopping.permission.C2D\_MESSAGE 5%  
 88 unknown com.amazon.permission.SET\_FLAG\_NOSOFTKEYS 5%  
 89 unknown com.amazon.whas.API\_COMMUNICATION 5%  
 90 unknown com.amazon.whisperjoin.deviceprovisioningservice.ArcusUpdate.Permission 5%  
 91 unknown com.amazon.whisperjoin.deviceprovisioningservice.FFSServiceAction.permission 5%  
 92 unknown com.amazon.whisperjoin.deviceprovisioningservice.WhiteListPolicyUpdate.Permission 5%  
 93 other com.anddoes.launcher.permission.UPDATE\_COUNT 10%  
 94 unknown com.android.providers.tv.permission.READ\_EPG\_DATA 5%  
 95 unknown com.android.providers.tv.permission.WRITE\_EPG\_DATA 5%  
 96 unknown com.ebproductions.android.launcher.permission.READ\_SETTINGS 5%  
 97 unknown com.ebproductions.android.launcher.permission.WRITE\_SETTINGS 5%  
 98 unknown com.facebook.appmanager.UNPROTECTED\_API\_ACCESS 5%  
 99 unknown com.facebook.katana.permission.CREATE\_SHORTCUT 5%  
 100 unknown com.facebook.katana.permission.CROSS\_PROCESS\_BROADCAST\_MANAGER 5%  
 101 unknown com.facebook.katana.permission.RECEIVE\_ADM\_MESSAGE 5%  
 102 other com.facebook.katana.provider.ACCESS 10%  
 103 other com.facebook.mlite.provider.ACCESS 10%  
 104 unknown com.facebook.orca.permission.CREATE\_SHORTCUT 5%  
 105 unknown com.facebook.orca.permission.CROSS\_PROCESS\_BROADCAST\_MANAGER 5%  
 106 unknown com.facebook.orca.permission.RECEIVE\_ADM\_MESSAGE 5%  
 107 other com.facebook.orca.provider.ACCESS 10%  
 108 unknown com.facebook.pages.app.provider.ACCESS 5%  
 109 other com.facebook.permission.prod.FB\_APP\_COMMUNICATION 10%  
 110 other com.facebook.receiver.permission.ACCESS 10%  
 111 unknown com.google.android.apps.maps.permission.C2D\_MESSAGE 5%  
 112 unknown com.google.android.apps.maps.permission.PREFETCH 5%  
 113 unknown com.google.android.email.permission.ACCESS\_PROVIDER 5%  
 114 unknown com.google.android.email.permission.READ\_ATTACHMENT 5%  
 115 unknown com.google.android.gm.email.permission.ACCESS\_PROVIDER 5%  
 116 unknown com.google.android.gm.email.permission.READ\_ATTACHMENT 5%  
 117 unknown com.google.android.gm.permission.AUTO\_SEND 5%  
 118 unknown com.google.android.gm.permission.WRITE\_GMAIL 5%  
 119 unknown com.google.android.gms.permission.AD\_ID\_NOTIFICATION 5%  
 120 unknown com.google.android.googleapps.permission.GOOGLE\_AUTH 5%  
 121 unknown com.google.android.googleapps.permission.GOOGLE\_AUTH.mail 5%  
 122 unknown com.google.android.voicesearch.AUDIO\_FILE\_ACCESS 5%  
 123 unknown com.google.android.youtube.permission.C2D\_MESSAGE 5%  
 124 other com.htc.launcher.permission.READ\_SETTINGS 40%  
 125 other com.htc.launcher.permission.UPDATE\_SHORTCUT 40%  
 126 other com.huawei.android.launcher.permission.CHANGE\_BADGE 30%  
 127 other com.huawei.android.launcher.permission.READ\_SETTINGS 20%  
 128 other com.huawei.android.launcher.permission.WRITE\_SETTINGS 20%  
 129 unknown com.huawei.launcher2.permission.READ\_SETTINGS 5%  
 130 unknown com.huawei.launcher2.permission.WRITE\_SETTINGS 5%  
 131 unknown com.huawei.launcher3.permission.READ\_SETTINGS 5%  
 132 unknown com.huawei.launcher3.permission.WRITE\_SETTINGS 5%  
 133 unknown com.instagram.direct.permission.DIRECT\_APP\_THREAD\_STORE\_SERVICE 5%  
 134 unknown com.instagram.direct.permission.PROTECTED\_DEEPLINKING 5%  
 135 unknown com.lge.launcher.permission.READ\_SETTINGS 5%  
 136 unknown com.lge.launcher.permission.WRITE\_SETTINGS 5%  
 137 other com.majeur.launcher.permission.UPDATE\_BADGE 10%  
 138 unknown com.meizu.c2dm.permission.RECEIVE 5%  
 139 unknown com.meizu.flyme.push.permission.RECEIVE 5%  
 140 unknown com.miui.mihome2.permission.READ\_SETTINGS 5%  
 141 unknown com.miui.mihome2.permission.WRITE\_SETTINGS 5%  
 142 unknown com.netflix.mediaclient.permission.C2D\_MESSAGE 5%  
 143 unknown com.netflix.partner.activation.permission.CHANNEL\_ID 5%  
 144 unknown com.nianticlabs.pokemongo.bgcore.util.contentProviderPermission 5%  
 145 other com.nokia.pushnotifications.permission.RECEIVE 10%  
 146 other com.oppo.launcher.permission.READ\_SETTINGS 15%  
 147 other com.oppo.launcher.permission.WRITE\_SETTINGS 15%  
 148 other com.sec.android.provider.badge.permission.READ 35%  
 149 other com.sec.android.provider.badge.permission.WRITE 35%  
 150 unknown com.snapchat.android.permission.C2D\_MESSAGE 5%  
 151 unknown com.snapchat.android.permission.UPDATE\_STICKER\_INDEX 5%  
 152 other com.sonyericsson.home.permission.BROADCAST\_BADGE 35%  
 153 other com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE 20%  
 154 unknown com.twitter.android.permission.READ\_DATA 5%  
 155 unknown com.twitter.android.permission.RESTRICTED 5%  
 156 unknown com.ubercab.permission.C2D\_MESSAGE 5%

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157 unknown com.vivo.notification.permission.BADGE_ICON 5%
158 unknown com.weather.Weather.permission.RECEIVE ADM_MESSAGE 5%
159 unknown com.whatsapp.permission.BROADCAST 5%
160 unknown com.whatsapp.permission.MAPS_RECEIVE 5%
161 unknown com.whatsapp.permission.REGISTRATION 5%
162 unknown com.whatsapp.sticker.READ 5%
163 unknown com.zhiliao.musically.livewallpaper.permission.wallpaperplugin 5%
164 unknown com.zhiliaoapp.musically.miniapp.PROCESS_COMMUNICATION 5%
165 unknown com.zhiliaoapp.musically.permission.MIPUSH_RECEIVE 5%
166 unknown com.zhiliaoapp.musically.permission.READ_ACCOUNT 5%
167 unknown com.zhiliaoapp.musically.permission.RECEIVE ADM_MESSAGE 5%
168 unknown com.zhiliaoapp.musically.permission.WRITE_ACCOUNT 5%
169 unknown com.zhiliaoapp.musically.push.permission.MESSAGE 5%
170 unknown dianxin.permission.ACCESS_LAUNCHER_DATA 5%
171 other me.everything.badger.permission.BADGE_COUNT_READ 10%
172 other me.everything.badger.permission.BADGE_COUNT_WRITE 10%
173 unknown me.lyft.android.permission.C2D_MESSAGE 5%
174
```

```
1 com.amazon.mShop.android.shopping.permission.C2D_MESSAGE
2 com.android.launcher.permission.INSTALL_SHORTCUT
3 com.android.launcher.permission.READ_SETTINGS
4 amazon.permission.COLLECT_METRICS
5 android.permission.READ_CONTACTS
6 android.permission.WRITE_EXTERNAL_STORAGE
7 android.permission.READ_PHONE_STATE
8 android.permission.READ_EXTERNAL_STORAGE
9 android.permission.INTERNET
10 android.permission.ACCESS_NETWORK_STATE
11 android.permission.ACCESS_WIFI_STATE
12 android.permission.VIBRATE
13 android.permission.ACCESS_FINE_LOCATION
14 android.permission.WAKE_LOCK
15 com.google.android.c2dm.permission.RECEIVE
16 android.permission.FOREGROUND_SERVICE
17 com.amazon.dcp.metrics.permission.METRICS_PERMISSION
18 com.amazon.dcp.config.permission.DYN_CONFIG_VALUES_UPDATED
19 android.permission.GET_ACCOUNTS
20 android.permission.USE_CREDENTIALS
21 android.permission.MANAGE_ACCOUNTS
22 android.permission.AUTHENTICATE_ACCOUNTS
23 com.amazon.identity.auth.device.perm.AUTH_SDK
24 com.amazon.identity.permission.GENERIC_IPC
25 com.amazon.dcp.sso.permission.USE_DEVICE_CREDENTIALS
26 com.amazon.dcp.sso.permission.account.changed
27 com.amazon.dcp.sso.permission.MANAGE_COPFM
28 com.amazon.dcp.sso.permission.CUSTOMER_ATTRIBUTE_SERVICE
29 com.amazon.identity.permission.CAN_CALL_MAP_INFORMATION_PROVIDER
30 com.amazon.dcp.sso.permission.AmazonAccountPropertyService.property.changed
31 com.amazon.identity.permission.CALL_AMAZON_DEVICE_INFORMATION_PROVIDER
32 com.amazon.appmanager.preload.permission.READ_PRELOAD_DEVICE_INFO_PROVIDER
33 android.permission.CHANGE_WIFI_STATE
34 com.sec.android.provider.badge.permission.READ
35 com.sec.android.provider.badge.permission.WRITE
36 com.htc.launcher.permission.READ_SETTINGS
37 com.htc.launcher.permission.UPDATE_SHORTCUT
38 com.amazon.whas.API_COMMUNICATION
39 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
40 android.permission.RECORD_AUDIO
41 android.permission.USE_FINGERPRINT
42 android.permission.CAMERA
43 android.permission.BLUETOOTH
44 android.permission.BLUETOOTH_ADMIN
45 android.permission.ACCESS_COARSE_LOCATION
46 android.permission.MODIFY_AUDIO_SETTINGS
47 com.google.android.gms.permission.ACTIVITY_RECOGNITION
48 android.permission.ACTIVITY_RECOGNITION
49 android.permission.FLASHLIGHT
50 android.permission.ACCESS_BACKGROUND_LOCATION
51 com.amazon.whisperjoin.deviceprovisioningservice.WhiteListPolicyUpdate.Permission
52 com.amazon.whisperjoin.deviceprovisioningservice.ArcusUpdate.Permission
53 com.amazon.whisperjoin.deviceprovisioningservice.FFSServiceAction.permission
54 android.permission.CHANGE_WIFI_MULTICAST_STATE
55 android.permission.INTERNET
56 android.permission.ACCESS_NETWORK_STATE
57 android.permission.WAKE_LOCK
58 com.android.vending.BILLING
59 android.permission.ACCESS_COARSE_LOCATION
60 android.permission.ACCESS_FINE_LOCATION
61 android.permission.ACCESS_NETWORK_STATE
62 android.permission.ACCESS_WIFI_STATE
63 android.permission.BLUETOOTH
64 android.permission.BLUETOOTH_ADMIN
65 android.permission.CAMERA
66 android.permission.INTERNET
67 android.permission.READ_CONTACTS
68 android.permission.READ_EXTERNAL_STORAGE
69 android.permission.READ_PHONE_STATE
70 android.permission.READ_PROFILE
71 android.permission.RECEIVE_BOOT_COMPLETED
72 android.permission.USE_FINGERPRINT
73 android.permission.VIBRATE
74 android.permission.GET_ACCOUNTS
75 android.permission.USE_BIOMETRIC
76 com.google.android.providers.gsf.permission.READ_GSERVICES
77 android.permission.WAKE_LOCK
78 com.google.android.c2dm.permission.RECEIVE
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79 android.permission.NFC
80 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
81 android.permission.WRITE_EXTERNAL_STORAGE
82 com.android.vending.BILLING
83 android.permission.BLUETOOTH
84 android.permission.BLUETOOTH_ADMIN
85 android.permission.WRITE_SETTINGS
86 android.permission.CALL_PHONE
87 android.permission.ACCESS_COARSE_LOCATION
88 android.permission.WAKE_LOCK
89 android.permission.VIBRATE
90 android.permission.READ_CONTACTS
91 android.permission.WRITE_CONTACTS
92 android.permission.GET_ACCOUNTS
93 android.permission.MANAGE_ACCOUNTS
94 android.permission.AUTHENTICATE_ACCOUNTS
95 android.permission.READ_SYNC_SETTINGS
96 android.permission.WRITE_SYNC_SETTINGS
97 android.permission.ACCESS_FINE_LOCATION
98 android.permission.ACCESS_NETWORK_STATE
99 android.permission.BROADCAST_STICKY
100 com.facebook.katana.provider.ACCESS
101 com.facebook.orca.provider.ACCESS
102 com.facebook.mlite.provider.ACCESS
103 com.facebook.pages.app.provider.ACCESS
104 com.facebook.appmanager.UNPROTECTED_API_ACCESS
105 android.permission.DOWNLOAD_WITHOUT_NOTIFICATION
106 android.permission.NFC
107 android.permission.CAMERA
108 android.permission.RECORD_AUDIO
109 android.permission.WRITE_EXTERNAL_STORAGE
110 com.facebook.permission.prod.FB_APP_COMMUNICATION
111 android.permission.READ_PHONE_STATE
112 android.permission.READ_CALENDAR
113 android.permission.WRITE_CALENDAR
114 android.permission.MODIFY_AUDIO_SETTINGS
115 android.permission.READ_PROFILE
116 android.permission.CHANGE_NETWORK_STATE
117 android.permission.CHANGE_WIFI_STATE
118 android.permission.SYSTEM_ALERT_WINDOW
119 com.google.android.providers.gsf.permission.READ_GSERVICES
120 android.permission.RECEIVE_BOOT_COMPLETED
121 android.permission.GET_TASKS
122 android.permission.USE_BIOMETRIC
123 android.permission.USE_FINGERPRINT
124 android.permission.FOREGROUND_SERVICE
125 android.permission.INTERNET
126 com.google.android.c2dm.permission.RECEIVE
127 android.permission.READ_EXTERNAL_STORAGE
128 android.permission.REQUEST_INSTALL_PACKAGES
129 android.permission.ACCESS_BACKGROUND_LOCATION
130 com.facebook.katana.permission.CROSS_PROCESS_BROADCAST_MANAGER
131 android.permission.BATTERY_STATS
132 android.permission.ACCESS_WIFI_STATE
133 com.android.launcher.permission.INSTALL_SHORTCUT
134 com.facebook.receiver.permission.ACCESS
135 com.sec.android.provider.badge.permission.READ
136 com.sec.android.provider.badge.permission.WRITE
137 com.htc.launcher.permission.READ_SETTINGS
138 com.htc.launcher.permission.UPDATE_SHORTCUT
139 com.sonyericsson.home.permission.BROADCAST_BADGE
140 com.facebook.katana.permission.RECEIVE_ADM_MESSAGE
141 com.amazon.device.messaging.permission.RECEIVE
142 com.nokia.pushnotifications.permission.RECEIVE
143 com.facebook.katana.permission.CREATE_SHORTCUT
144 android.permission.AUTHENTICATE_ACCOUNTS
145 android.permission.ACCESS_NETWORK_STATE
146 android.permission.GET_ACCOUNTS
147 android.permission.MANAGE_ACCOUNTS
148 android.permission.INTERNET
149 android.permission.READ_CONTACTS
150 android.permission.WRITE_CONTACTS
151 android.permission.READ_CALENDAR
152 android.permission.WRITE_CALENDAR
153 android.permission.READ_SYNC_SETTINGS
154 android.permission.READ_SYNC_STATS
155 android.permission.RECEIVE_BOOT_COMPLETED
156 android.permission.SUBSCRIBED_FEEDS_READ
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157 android.permission.SUBSCRIBED\_FEEDS\_WRITE  
158 android.permission.USE\_CREDENTIALS  
159 android.permission.VIBRATE  
160 android.permission.WAKE\_LOCK  
161 android.permission.WRITE\_SYNC\_SETTINGS  
162 android.permission.WRITE\_EXTERNAL\_STORAGE  
163 com.google.android.gm.permission.READ\_GMAIL  
164 com.google.android.gm.permission.WRITE\_GMAIL  
165 com.google.android.googleapps.permission.GOOGLE\_AUTH  
166 com.google.android.googleapps.permission.GOOGLE\_AUTH.mail  
167 com.google.android.providers.gsf.permission.READ\_GSERVICES  
168 com.google.android.gm.permission.AUTO\_SEND  
169 com.google.android.voicesearch.AUDIO\_FILE\_ACCESS  
170 android.permission.DOWNLOAD\_WITHOUT\_NOTIFICATION  
171 android.permission.NFC  
172 com.google.android.gm.email.permission.READ\_ATTACHMENT  
173 com.google.android.email.permission.READ\_ATTACHMENT  
174 com.google.android.gm.email.permission.ACCESS\_PROVIDER  
175 com.google.android.email.permission.ACCESS\_PROVIDER  
176 android.permission.READ\_PROFILE  
177 android.permission.READ\_EXTERNAL\_STORAGE  
178 android.permission.INTERNET  
179 com.google.android.providers.gsf.permission.READ\_GSERVICES  
180 android.permission.WRITE\_EXTERNAL\_STORAGE  
181 android.permission.ACCESS\_COARSE\_LOCATION  
182 android.permission.ACCESS\_FINE\_LOCATION  
183 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
184 android.permission.GET\_ACCOUNTS  
185 android.permission.MANAGE\_ACCOUNTS  
186 android.permission.USE\_CREDENTIALS  
187 android.permission.DISABLE\_KEYGUARD  
188 android.permission.ACCESS\_WIFI\_STATE  
189 android.permission.ACCESS\_NETWORK\_STATE  
190 android.permission.CHANGE\_WIFI\_STATE  
191 com.google.android.c2dm.permission.RECEIVE  
192 com.google.android.apps.maps.permission.C2D\_MESSAGE  
193 android.permission.VIBRATE  
194 android.permission.NFC  
195 android.permission.READ\_CONTACTS  
196 com.google.android.apps.maps.permission.PREFETCH  
197 android.permission.WAKE\_LOCK  
198 android.permission.READ\_PHONE\_STATE  
199 android.permission.RECEIVE\_BOOT\_COMPLETED  
200 android.permission.BLUETOOTH  
201 android.permission.BLUETOOTH\_ADMIN  
202 android.permission.CALL\_PHONE  
203 android.permission.BROADCAST\_STICKY  
204 android.permission.READ\_EXTERNAL\_STORAGE  
205 android.permission.INTERNET  
206 android.permission.ACCESS\_NETWORK\_STATE  
207 android.permission.WAKE\_LOCK  
208 android.permission.GET\_ACCOUNTS  
209 android.permission.USE\_CREDENTIALS  
210 android.permission.RECEIVE\_BOOT\_COMPLETED  
211 android.permission.VIBRATE  
212 android.permission.FOREGROUND\_SERVICE  
213 android.permission.USE\_FULL\_SCREEN\_INTENT  
214 com.google.android.c2dm.permission.RECEIVE  
215 android.permission.CAMERA  
216 android.permission.READ\_CONTACTS  
217 android.permission.READ\_PROFILE  
218 android.permission.ACCESS\_FINE\_LOCATION  
219 android.permission.RECORD\_AUDIO  
220 android.permission.MODIFY\_AUDIO\_SETTINGS  
221 android.permission.WRITE\_EXTERNAL\_STORAGE  
222 android.permission.ACCESS\_MEDIA\_LOCATION  
223 android.permission.READ\_PHONE\_STATE  
224 com.android.launcher.permission.INSTALL\_SHORTCUT  
225 com.android.launcher.permission.UNINSTALL\_SHORTCUT  
226 com.instagram.direct.permission.PROTECTED\_DEEPLINKING  
227 com.instagram.direct.permission.DIRECT\_APP\_THREAD\_STORE\_SERVICE  
228 com.htc.launcher.permission.READ\_SETTINGS  
229 com.htc.launcher.permission.UPDATE\_SHORTCUT  
230 com.huawei.android.launcher.permission.CHANGE\_BADGE  
231 com.sonyericsson.home.permission.BROADCAST\_BADGE  
232 android.permission.USE\_BIOMETRIC  
233 android.permission.USE\_FINGERPRINT  
234 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE

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235 .permission.RECEIVE_ADM_MESSAGE
236 com.amazon.device.messaging.permission.RECEIVE
237 android.permission.ACCESS_COARSE_LOCATION
238 android.permission.ACCESS_FINE_LOCATION
239 android.permission.ACCESS_NETWORK_STATE
240 android.permission.CALL_PHONE
241 android.permission.CAMERA
242 android.permission.INTERNET
243 android.permission.READ_CONTACTS
244 android.permission.READ_EXTERNAL_STORAGE
245 android.permission.READ_PHONE_STATE
246 android.permission.VIBRATE
247 android.permission.WRITE_EXTERNAL_STORAGE
248 android.permission.READ_CALENDAR
249 android.permission.BLUETOOTH
250 android.permission.BLUETOOTH_ADMIN
251 com.google.android.providers.gsf.permission.READ_GSERVICES
252 android.permission.SYSTEM_ALERT_WINDOW
253 com.google.android.c2dm.permission.RECEIVE
254 android.permission.GET_ACCOUNTS
255 android.permission.WAKE_LOCK
256 android.permission.ACCESS_WIFI_STATE
257 android.permission.CHANGE_WIFI_STATE
258 android.permission.CHANGE_WIFI_MULTICAST_STATE
259 me.lyft.android.permission.C2D_MESSAGE
260 android.permission.USE_BIOMETRIC
261 android.permission.USE_FINGERPRINT
262 android.permission.RECEIVE_BOOT_COMPLETED
263 android.permission.FOREGROUND_SERVICE
264 com.android.vending.BILLING
265 com.facebook.katana.provider.ACCESS
266 android.permission.INTERNET
267 android.permission.GET_ACCOUNTS
268 android.permission.ACCESS_NETWORK_STATE
269 android.permission.WAKE_LOCK
270 android.permission.VIBRATE
271 android.permission.READ_CONTACTS
272 android.permission.READ_PROFILE
273 android.permission.WRITE_EXTERNAL_STORAGE
274 android.permission.READ_PHONE_STATE
275 android.permission.ACCESS_WIFI_STATE
276 android.permission.RECEIVE_BOOT_COMPLETED
277 android.permission.READ_SYNC_SETTINGS
278 android.permission.RECEIVE_SMS
279 android.permission.RECEIVE_MMS
280 android.permission.READ_SMS
281 android.permission.WRITE_SMS
282 android.permission.SEND_SMS
283 android.permission.CHANGE_NETWORK_STATE
284 android.permission.RECORD_AUDIO
285 android.permission.SYSTEM_ALERT_WINDOW
286 android.permission.CALL_PHONE
287 android.permission.MODIFY_AUDIO_SETTINGS
288 android.permission.DOWNLOAD_WITHOUT_NOTIFICATION
289 android.permission.AUTHENTICATE_ACCOUNTS
290 android.permission.MANAGE_ACCOUNTS
291 android.permission.WRITE_CONTACTS
292 android.permission.WRITE_SYNC_SETTINGS
293 android.permission.BLUETOOTH
294 android.permission.NFC
295 com.facebook.orca.provider.ACCESS
296 com.facebook.permission.prod.FB_APP_COMMUNICATION
297 com.facebook.mlite.provider.ACCESS
298 android.permission.CAMERA
299 android.permission.ACCESS_FINE_LOCATION
300 android.permission.ACCESS_COARSE_LOCATION
301 com.google.android.providers.gsf.permission.READ_GSERVICES
302 com.huawei.android.launcher.permission.CHANGE_BADGE
303 android.permission.USE_FULL_SCREEN_INTENT
304 android.permission.READ_CALENDAR
305 android.permission.FOREGROUND_SERVICE
306 android.permission.USE_BIOMETRIC
307 android.permission.USE_FINGERPRINT
308 com.google.android.c2dm.permission.RECEIVE
309 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
310 android.permission.READ_EXTERNAL_STORAGE
311 com.facebook.orca.permission.CROSS_PROCESS_BROADCAST_MANAGER
312 com.android.launcher.permission.INSTALL_SHORTCUT
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313 com.facebook.receiver.permission.ACCESS  
314 com.sec.android.provider.badge.permission.READ  
315 com.sec.android.provider.badge.permission.WRITE  
316 com.htc.launcher.permission.READ\_SETTINGS  
317 com.htc.launcher.permission.UPDATE\_SHORTCUT  
318 com.sonyericsson.home.permission.BROADCAST\_BADGE  
319 android.permission.BLUETOOTH\_ADMIN  
320 android.permission.CHANGE\_WIFI\_STATE  
321 com.facebook.orca.permission.RECEIVE\_ADM\_MESSAGE  
322 com.amazon.device.messaging.permission.RECEIVE  
323 com.nokia.pushnotifications.permission.RECEIVE  
324 com.facebook.orca.permission.CREATE\_SHORTCUT  
325 android.permission.MANAGE\_OWN\_CALLS  
326 com.android.vending.BILLING  
327 com.netflix.mediaclient.permission.C2D\_MESSAGE  
328 com.netflix.partner.activation.permission.CHANNEL\_ID  
329 android.permission.ACCESS\_NETWORK\_STATE  
330 android.permission.ACCESS\_WIFI\_STATE  
331 android.permission.BLUETOOTH  
332 android.permission.CHANGE\_WIFI\_MULTICAST\_STATE  
333 android.permission.INTERNET  
334 android.permission.READ\_PHONE\_STATE  
335 android.permission.WAKE\_LOCK  
336 android.permission.RECORD\_AUDIO  
337 android.permission.MODIFY\_AUDIO\_SETTINGS  
338 android.permission.WRITE\_EXTERNAL\_STORAGE  
339 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
340 com.amazon.permission.SET\_FLAG\_NOSOFTKEYS  
341 com.google.android.c2dm.permission.RECEIVE  
342 android.permission.READ\_EXTERNAL\_STORAGE  
343 android.permission.ACCESS\_MEDIA\_LOCATION  
344 android.permission.ACTIVITY\_RECOGNITION  
345 com.android.vending.BILLING  
346 android.permission.VIBRATE  
347 android.permission.BLUETOOTH  
348 android.permission.BLUETOOTH\_ADMIN  
349 android.permission.ACCESS\_FINE\_LOCATION  
350 android.permission.FOREGROUND\_SERVICE  
351 android.permission.WRITE\_EXTERNAL\_STORAGE  
352 android.permission.INTERNET  
353 android.permission.GET\_ACCOUNTS  
354 android.permission.USE\_CREDENTIALS  
355 android.permission.ACCESS\_NETWORK\_STATE  
356 android.permission.WAKE\_LOCK  
357 android.permission.ACCESS\_WIFI\_STATE  
358 com.google.android.finsky.permission.BIND\_INSTALL\_REFERRER\_SERVICE  
359 android.permission.CAMERA  
360 android.permission.READ\_EXTERNAL\_STORAGE  
361 android.permission.ACCESS\_COARSE\_LOCATION  
362 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
363 android.permission.RECEIVE\_BOOT\_COMPLETED  
364 com.nianticlabs.pokemongo.bgcore.util.contentProviderPermission  
365 com.google.android.c2dm.permission.RECEIVE  
366 android.permission.ACCESS\_BACKGROUND\_LOCATION  
367 android.permission.ACCESS\_MEDIA\_LOCATION  
368 android.permission.ACTIVITY\_RECOGNITION  
369 android.permission.INTERNET  
370 android.permission.ACCESS\_COARSE\_LOCATION  
371 android.permission.ACCESS\_FINE\_LOCATION  
372 android.permission.ACCESS\_NETWORK\_STATE  
373 android.permission.CAMERA  
374 android.permission.VIBRATE  
375 android.permission.READ\_PHONE\_STATE  
376 android.permission.READ\_EXTERNAL\_STORAGE  
377 android.permission.NFC  
378 android.permission.WAKE\_LOCK  
379 android.permission.ACCESS\_WIFI\_STATE  
380 android.permission.CHANGE\_WIFI\_STATE  
381 com.google.android.finsky.permission.BIND\_INSTALL\_REFERRER\_SERVICE  
382 android.permission.RECEIVE\_BOOT\_COMPLETED  
383 android.permission.FOREGROUND\_SERVICE  
384 com.google.android.c2dm.permission.RECEIVE  
385 android.permission.WAKE\_LOCK  
386 android.permission.CAMERA  
387 android.permission.RECORD\_AUDIO  
388 android.permission.WRITE\_EXTERNAL\_STORAGE  
389 android.permission.FLASHLIGHT  
390 android.permission.READ\_PHONE\_STATE

391 android.permission.READ\_CONTACTS  
392 com.snapchat.android.permission.UPDATE\_STICKER\_INDEX  
393 android.permission.ACCESS\_FINE\_LOCATION  
394 android.permission.FOREGROUND\_SERVICE  
395 android.permission.BLUETOOTH  
396 android.permission.MODIFY\_AUDIO\_SETTINGS  
397 android.permission.ACCESS\_NETWORK\_STATE  
398 android.permission.GET\_ACCOUNTS  
399 android.permission.READ\_PROFILE  
400 android.permission.VIBRATE  
401 android.permission.BLUETOOTH\_ADMIN  
402 android.permission.READ\_EXTERNAL\_STORAGE  
403 android.permission.USE\_FULL\_SCREEN\_INTENT  
404 android.permission.CHANGE\_WIFI\_STATE  
405 android.permission.ACCESS\_WIFI\_STATE  
406 android.permission.INTERNET  
407 android.permission.CHANGE\_NETWORK\_STATE  
408 android.permission.RECEIVE\_BOOT\_COMPLETED  
409 com.google.android.c2dm.permission.RECEIVE  
410 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
411 com.snapchat.android.permission.C2D\_MESSAGE  
412 com.sec.android.provider.badge.permission.READ  
413 com.sec.android.provider.badge.permission.WRITE  
414 com.htc.launcher.permission.READ\_SETTINGS  
415 com.htc.launcher.permission.UPDATE\_SHORTCUT  
416 com.sonyericsson.home.permission.BROADCAST\_BADGE  
417 com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE  
418 com.anddoes.launcher.permission.UPDATE\_COUNT  
419 com.majeur.launcher.permission.UPDATE\_BADGE  
420 com.huawei.android.launcher.permission.CHANGE\_BADGE  
421 com.huawei.android.launcher.permission.READ\_SETTINGS  
422 com.huawei.android.launcher.permission.WRITE\_SETTINGS  
423 android.permission.READ\_APP\_BADGE  
424 com.oppo.launcher.permission.READ\_SETTINGS  
425 com.oppo.launcher.permission.WRITE\_SETTINGS  
426 me.everything.badger.permission.BADGE\_COUNT\_READ  
427 me.everything.badger.permission.BADGE\_COUNT\_WRITE  
428 android.permission.INTERNET  
429 android.permission.ACCESS\_NETWORK\_STATE  
430 android.permission.RECEIVE\_BOOT\_COMPLETED  
431 android.permission.CHANGE\_WIFI\_MULTICAST\_STATE  
432 android.permission.WAKE\_LOCK  
433 android.permission.FOREGROUND\_SERVICE  
434 com.android.providers.tv.permission.READ\_EPG\_DATA  
435 com.android.providers.tv.permission.WRITE\_EPG\_DATA  
436 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
437 com.google.android.c2dm.permission.RECEIVE  
438 android.permission.INTERNET  
439 android.permission.ACCESS\_NETWORK\_STATE  
440 android.permission.READ\_EXTERNAL\_STORAGE  
441 android.permission.WRITE\_EXTERNAL\_STORAGE  
442 android.permission.ACCESS\_WIFI\_STATE  
443 android.permission.CAMERA  
444 android.permission.RECORD\_AUDIO  
445 android.permission.FLASHLIGHT  
446 android.permission.WAKE\_LOCK  
447 android.permission.GET\_TASKS  
448 android.permission.READ\_CONTACTS  
449 android.permission.RECEIVE\_BOOT\_COMPLETED  
450 android.permission.VIBRATE  
451 com.meizu.c2dm.permission.RECEIVE  
452 com.zhiliaoapp.musically.permission.READ\_ACCOUNT  
453 com.zhiliaoapp.musically.permission.WRITE\_ACCOUNT  
454 com.android.launcher.permission.INSTALL\_SHORTCUT  
455 com.android.launcher.permission.UNINSTALL\_SHORTCUT  
456 com.android.launcher.permission.READ\_SETTINGS  
457 android.permission.AUTHENTICATE\_ACCOUNTS  
458 com.htc.launcher.permission.READ\_SETTINGS  
459 com.lge.launcher.permission.READ\_SETTINGS  
460 com.lge.launcher.permission.WRITE\_SETTINGS  
461 com.huawei.launcher3.permission.READ\_SETTINGS  
462 com.huawei.launcher3.permission.WRITE\_SETTINGS  
463 com.huawei.launcher2.permission.READ\_SETTINGS  
464 com.huawei.launcher2.permission.WRITE\_SETTINGS  
465 com.ebproductions.android.launcher.permission.READ\_SETTINGS  
466 com.ebproductions.android.launcher.permission.WRITE\_SETTINGS  
467 com.oppo.launcher.permission.READ\_SETTINGS  
468 com.oppo.launcher.permission.WRITE\_SETTINGS

469 com.huawei.android.launcher.permission.READ\_SETTINGS  
470 com.huawei.android.launcher.permission.WRITE\_SETTINGS  
471 dianxin.permission.ACCESS\_LAUNCHER\_DATA  
472 com.miui.mihome2.permission.READ\_SETTINGS  
473 com.miui.mihome2.permission.WRITE\_SETTINGS  
474 android.permission.FOREGROUND\_SERVICE  
475 com.zhiliaomusically.livewallpaper.permission.wallpaperplugin  
476 com.zhiliaoapp.musically.permission.MIPUSH\_RECEIVE  
477 com.zhiliaoapp.musically.push.permission.MESSAGE  
478 com.meizu.flyme.push.permission.RECEIVE  
479 android.permission.WRITE\_SYNC\_SETTINGS  
480 com.sec.android.provider.badge.permission.READ  
481 com.sec.android.provider.badge.permission.WRITE  
482 com.htc.launcher.permission.UPDATE\_SHORTCUT  
483 com.sonyericsson.home.permission.BROADCAST\_BADGE  
484 com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE  
485 com.majeur.launcher.permission.UPDATE\_BADGE  
486 android.permission.MODIFY\_AUDIO\_SETTINGS  
487 com.android.vending.BILLING  
488 com.zhiliaoapp.musically.miniapp.PROCESS\_COMMUNICATION  
489 android.permission.REORDER\_TASKS  
490 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
491 com.google.android.c2dm.permission.RECEIVE  
492 com.zhiliaoapp.musically.permission.RECEIVE ADM\_MESSAGE  
493 com.amazon.device.messaging.permission.RECEIVE  
494 com.huawei.android.launcher.permission.CHANGE\_BADGE  
495 android.permission.READ\_APP\_BADGE  
496 me.everything.badger.permission.BADGE\_COUNT\_READ  
497 me.everything.badger.permission.BADGE\_COUNT\_WRITE  
498 android.permission.UPDATE\_APP\_BADGE  
499 com.vivo.notification.permission.BADGE\_ICON  
500 com.twitter.android.permission.RESTRICTED  
501 android.permission.MODIFY\_AUDIO\_SETTINGS  
502 android.permission.INTERNET  
503 android.permission.VIBRATE  
504 android.permission.READ\_PROFILE  
505 android.permission.READ\_CONTACTS  
506 android.permission.WAKE\_LOCK  
507 android.permission.WRITE\_EXTERNAL\_STORAGE  
508 com.twitter.android.permission.READ\_DATA  
509 com.google.android.providers.gsf.permission.READ\_GSERVICES  
510 com.android.launcher.permission.INSTALL\_SHORTCUT  
511 android.permission.READ\_PHONE\_STATE  
512 android.permission.CAMERA  
513 android.permission.RECORD\_AUDIO  
514 android.permission.GET\_ACCOUNTS  
515 android.permission.ACCESS\_NETWORK\_STATE  
516 android.permission.SYSTEM\_ALERT\_WINDOW  
517 android.permission.ACCESS\_FINE\_LOCATION  
518 android.permission.ACCESS\_COARSE\_LOCATION  
519 android.permission.AUTHENTICATE\_ACCOUNTS  
520 android.permission.MANAGE\_ACCOUNTS  
521 android.permission.USE\_CREDENTIALS  
522 android.permission.READ\_SYNC\_SETTINGS  
523 android.permission.WRITE\_SYNC\_SETTINGS  
524 com.huawei.android.launcher.permission.READ\_SETTINGS  
525 com.huawei.android.launcher.permission.WRITE\_SETTINGS  
526 com.huawei.android.launcher.permission.CHANGE\_BADGE  
527 com.sonyericsson.home.permission.BROADCAST\_BADGE  
528 com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE  
529 com.sec.android.provider.badge.permission.READ  
530 com.sec.android.provider.badge.permission.WRITE  
531 com.oppo.launcher.permission.READ\_SETTINGS  
532 com.oppo.launcher.permission.WRITE\_SETTINGS  
533 com.htc.launcher.permission.READ\_SETTINGS  
534 com.htc.launcher.permission.UPDATE\_SHORTCUT  
535 com.anddoes.launcher.permission.UPDATE\_COUNT  
536 android.permission.ACCESS\_WIFI\_STATE  
537 com.google.android.c2dm.permission.RECEIVE  
538 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
539 android.permission.FOREGROUND\_SERVICE  
540 android.permission.RECEIVE\_BOOT\_COMPLETED  
541 com.google.android.c2dm.permission.RECEIVE  
542 com.google.android.providers.gsf.permission.READ\_GSERVICES  
543 com.ubercab.permission.C2D\_MESSAGE  
544 android.permission.USE\_BIOMETRIC  
545 android.permission.USE\_FINGERPRINT  
546 android.permission.WAKE\_LOCK

547 android.permission.ACCESS\_NETWORK\_STATE  
548 android.permission.RECEIVE\_BOOT\_COMPLETED  
549 android.permission.FOREGROUND\_SERVICE  
550 android.permission.INTERNET  
551 android.permission.READ\_PHONE\_STATE  
552 android.permission.SYSTEM\_ALERT\_WINDOW  
553 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
554 android.permission.CAMERA  
555 android.permission.WRITE\_EXTERNAL\_STORAGE  
556 android.permission.READ\_EXTERNAL\_STORAGE  
557 android.permission.MODIFY\_AUDIO\_SETTINGS  
558 android.permission.ACCESS\_WIFI\_STATE  
559 android.permission.BLUETOOTH  
560 android.permission.BLUETOOTH\_ADMIN  
561 android.permission.ACCESS\_FINE\_LOCATION  
562 android.permission.VIBRATE  
563 android.permission.READ\_SMS  
564 android.permission.RECEIVE\_SMS  
565 android.permission.ACCESS\_COARSE\_LOCATION  
566 android.permission.CALL\_PHONE  
567 android.permission.MANAGE\_ACCOUNTS  
568 android.permission.READ\_CONTACTS  
569 android.permission.SEND\_SMS  
570 android.permission.USE\_CREDENTIALS  
571 android.permission.RECORD\_AUDIO  
572 android.permission.GET\_ACCOUNTS  
573 android.permission.CHANGE\_NETWORK\_STATE  
574 com.weather.Weather.permission.RECEIVE\_ADM\_MESSAGE  
575 android.permission.INTERNET  
576 android.permission.ACCESS\_COARSE\_LOCATION  
577 android.permission.ACCESS\_FINE\_LOCATION  
578 android.permission.ACCESS\_NETWORK\_STATE  
579 android.permission.ACCESS\_WIFI\_STATE  
580 android.permission.RECEIVE\_BOOT\_COMPLETED  
581 android.permission.VIBRATE  
582 com.google.android.c2dm.permission.RECEIVE  
583 android.permission.USE\_CREDENTIALS  
584 android.permission.WAKE\_LOCK  
585 com.google.android.providers.gsf.permission.READ\_GSERVICES  
586 com.amazon.device.messaging.permission.RECEIVE  
587 com.android.vending.BILLING  
588 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
589 android.permission.READ\_PHONE\_STATE  
590 android.permission.RECEIVE\_SMS  
591 android.permission.VIBRATE  
592 android.permission.USE\_FINGERPRINT  
593 android.permission.CAMERA  
594 android.permission.USE\_BIOMETRIC  
595 android.permission.ACCESS\_COARSE\_LOCATION  
596 android.permission.ACCESS\_FINE\_LOCATION  
597 android.permission.ACCESS\_NETWORK\_STATE  
598 android.permission.ACCESS\_WIFI\_STATE  
599 android.permission.AUTHENTICATE\_ACCOUNTS  
600 android.permission.BLUETOOTH  
601 android.permission.BROADCAST\_STICKY  
602 android.permission.CHANGE\_NETWORK\_STATE  
603 android.permission.CHANGE\_WIFI\_STATE  
604 android.permission.GET\_ACCOUNTS  
605 android.permission.GET\_TASKS  
606 android.permission.INSTALL\_SHORTCUT  
607 android.permission.INTERNET  
608 android.permission.MANAGE\_ACCOUNTS  
609 android.permission.MANAGE\_OWN\_CALLS  
610 android.permission.MODIFY\_AUDIO\_SETTINGS  
611 android.permission.NFC  
612 android.permission.READ\_CONTACTS  
613 android.permission.READ\_PROFILE  
614 android.permission.READ\_SYNC\_SETTINGS  
615 android.permission.READ\_SYNC\_STATS  
616 android.permission.RECEIVE\_BOOT\_COMPLETED  
617 android.permission.RECORD\_AUDIO  
618 android.permission.SEND\_SMS  
619 android.permission.USE\_CREDENTIALS  
620 android.permission.WAKE\_LOCK  
621 android.permission.WRITE\_CONTACTS  
622 android.permission.WRITE\_EXTERNAL\_STORAGE  
623 android.permission.WRITE\_SYNC\_SETTINGS  
624 android.permission.REQUEST\_INSTALL\_PACKAGES

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625 android.permission.FOREGROUND_SERVICE
626 android.permission.USE_FULL_SCREEN_INTENT
627 com.android.launcher.permission.INSTALL_SHORTCUT
628 com.android.launcher.permission.UNINSTALL_SHORTCUT
629 com.google.android.c2dm.permission.RECEIVE
630 com.google.android.providers.gsf.permission.READ_GSERVICES
631 com.sec.android.provider.badge.permission.READ
632 com.sec.android.provider.badge.permission.WRITE
633 com.htc.launcher.permission.READ_SETTINGS
634 com.htc.launcher.permission.UPDATE_SHORTCUT
635 com.sonyericsson.home.permission.BROADCAST_BADGE
636 com.sonymobile.home.permission.PROVIDER_INSERT_BADGE
637 com.huawei.android.launcher.permission.READ_SETTINGS
638 com.huawei.android.launcher.permission.WRITE_SETTINGS
639 com.huawei.android.launcher.permission.CHANGE_BADGE
640 com.whatsapp.permission.BROADCAST
641 com.whatsapp.permission.MAPS_RECEIVE
642 com.whatsapp.permission.REGISTRATION
643 com.whatsapp.sticker.READ
644 android.permission.READ_EXTERNAL_STORAGE
645 android.permission.INTERNET
646 android.permission.ACCESS_NETWORK_STATE
647 android.permission.ACCESS_WIFI_STATE
648 android.permission.WRITE_EXTERNAL_STORAGE
649 android.permission.RECEIVE_BOOT_COMPLETED
650 android.permission.MANAGE_DOCUMENTS
651 android.permission.GET_ACCOUNTS
652 android.permission.MANAGE_ACCOUNTS
653 android.permission.USE_CREDENTIALS
654 com.google.android.providers.gsf.permission.READ_GSERVICES
655 com.google.android.c2dm.permission.RECEIVE
656 android.permission.WAKE_LOCK
657 android.permission.NFC
658 android.permission.CAMERA
659 android.permission.VIBRATE
660 com.google.android.gms.permission.AD_ID_NOTIFICATION
661 com.google.android.youtube.permission.C2D_MESSAGE
662 android.permission.GET_PACKAGE_SIZE
663 android.permission.FOREGROUND_SERVICE
664 android.permission.USE_FINGERPRINT
665
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1 android.permission.READ_SMS
2 android.permission.RECEIVE_SMS
3 android.permission.READ_CALL_LOG
4 android.permission.PROCESS_OUTGOING_CALLS
5 android.permission.INTERNET
6 com.google.android.c2dm.permission.RECEIVE
7 android.permission.WAKE_LOCK
8 android.permission.GET_ACCOUNTS
9 android.permission.SYSTEM_ALERT_WINDOW
10 android.permission.USE_CREDENTIALS
11 android.permission.ACCESS_NETWORK_STATE
12 android.permission.ACCESS_WIFI_STATE
13 android.permission.CHANGE_WIFI_STATE
14 android.permission.ACCESS_COARSE_LOCATION
15 android.permission.ACCESS_FINE_LOCATION
16 android.permission.CAMERA
17 android.permission.WRITE_EXTERNAL_STORAGE
18 android.permission.READ_EXTERNAL_STORAGE
19 android.permission.GET_TASKS
20 android.permission.RECORD_AUDIO
21 android.permission.READ_CONTACTS
22 android.permission.READ_PHONE_STATE
23 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
24 android.permission.RECEIVE_BOOT_COMPLETED
25 com.android.browser.permission.READ_HISTORY_BOOKMARKS
26 com.android.launcher.permission.INSTALL_SHORTCUT
27 com.android.launcher.permission.UNINSTALL_SHORTCUT
28 android.permission.CAPTURE_AUDIO_OUTPUT
29 android.permission.ACCESS_SUPERUSER
30 android.permission.READ_CALENDAR
31 android.permission.BIND_NOTIFICATION_LISTENER_SERVICE
32 android.permission.VIBRATE
33 android.permission.MODIFY_AUDIO_SETTINGS
34 android.permission.REQUEST_INSTALL_PACKAGES
35 android.permission.PACKAGE_USAGE_STATS
36 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
37 android.permission.ACCESS_BACKGROUND_LOCATION
38 android.permission.INTERNET
39 android.permission.WAKE_LOCK
40 android.permission.SET_ALARM
41 android.permission.BROADCAST_STICKY
42 android.permission.WRITE_EXTERNAL_STORAGE
43 android.permission.WRITE_INTERNAL_STORAGE
44 android.permission.READ_EXTERNAL_STORAGE
45 android.permission.BLUETOOTH
46 android.permission.ACCESS_COARSE_LOCATION
47 android.permission.ACCESS_FINE_LOCATION
48 android.permission.ACCESS_LOCATION_EXTRA_COMMANDS
49 android.permission.ACCESS_NETWORK_STATE
50 android.permission.ACCESS_WIFI_STATE
51 android.permission.CHANGE_NETWORK_STATE
52 android.permission.CHANGE_WIFI_STATE
53 android.permission.CHANGE_WIFI_MULTICAST_STATE
54 android.permission.GET_ACCOUNTS
55 android.permission.USE_CREDENTIALS
56 android.permission.GET_PACKAGE_SIZE
57 android.permission.READ_CALL_LOG
58 android.permission.PROCESS_OUTGOING_CALLS
59 android.permission.READ_SMS
60 android.permission.READ_CONTACTS
61 android.permission.READ_CALENDAR
62 android.permission.READ_HISTORY_BOOKMARKS
63 android.permission.READ_PHONE_STATE
64 android.permission.READ_PROFILE
65 android.permission.READ_SYNC_SETTINGS
66 android.permission.READ_SYNC_STATS
67 android.permission.RECEIVE_BOOT_COMPLETED
68 android.permission.RECEIVE_MMS
69 android.permission.RECEIVE_SMS
70 com.google.android.gm.permission.READ_GMAIL
71 com.google.android.providers.gmail.permission.READ_GMAIL
72 com.android.browser.permission.READ_HISTORY_BOOKMARKS
73 com.android.email.permission.ACCESS_PROVIDER
74 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
75 com.google.android.c2dm.permission.RECEIVE
76 com.ibm.fb.permission.C2D_MESSAGE
77 android.permission.ACCESS_BACKGROUND_LOCATION
78 android.permission.INTERNET
```

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79 android.permission.ACCESS_NETWORK_STATE
80 android.permission.WAKE_LOCK
81 android.permission.ACCESS_COARSE_LOCATION
82 android.permission.ACCESS_FINE_LOCATION
83 android.permission.READ_PHONE_STATE
84 android.permission.READ_CONTACTS
85 android.permission.RECEIVE_BOOT_COMPLETED
86 android.permission.READ_SMS
87 android.permission.WRITE_SMS
88 android.permission.SEND_SMS
89 android.permission.RECEIVE_SMS
90 android.permission.READ_CALL_LOG
91 android.permission.PROCESS_OUTGOING_CALLS
92 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
93 com.google.android.c2dm.permission.RECEIVE
94 android.permission.ACCESS_COARSE_LOCATION
95 android.permission.ACCESS_FINE_LOCATION
96 android.permission.WRITE_SETTINGS
97 android.permission.WRITE_SECURE_SETTINGS
98 android.permission.RECORD_AUDIO
99 android.permission.READ_PHONE_STATE
100 android.permission.MODIFY_PHONE_STATE
101 android.permission.ACCESS_NETWORK_STATE
102 android.permission.CHANGE_NETWORK_STATE
103 android.permission.READ_CONTACTS
104 android.permission.ACCESS_WIFI_STATE
105 android.permission.CHANGE_WIFI_STATE
106 android.permission.INTERNET
107 android.permission.WAKE_LOCK
108 android.permission.RECEIVE_BOOT_COMPLETED
109 android.permission.WRITE_EXTERNAL_STORAGE
110 com.android.vending.BILLING
111 android.permission.CAMERA
112 com.latedroid.juicedefender.permission.CONTROL_JUICEDEFENDER
113 com.latedroid.juicedefender.permission.TOGGLE_MOBILE_DATA
114 net.dinglisch.android.tasker.PERMISSION_RUN_TASKS
115 android.permission.CALL_PHONE
116 android.permission.MODIFY_AUDIO_SETTINGS
117 android.permission.SYSTEM_ALERT_WINDOW
118 android.permission.VIBRATE
119 android.permission.GET_ACCOUNTS
120 android.permission.MANAGE_ACCOUNTS
121 android.permission.UPDATE_APP_OPS_STATS
122 android.permission.STATUS_BAR
123 android.permission.BLUETOOTH
124 android.permission.BLUETOOTH_ADMIN
125 android.permission.NFC
126 android.permission.INTERACT_ACROSS_USERS
127 android.permission.MANAGE_USERS
128 android.permission.MANAGE_DEVICEADMINS
129 com.google.android.gms.permission.ACTIVITY_RECOGNITION
130 android.permission.USE_FINGERPRINT
131 android.permission.READ_PRIVILEGED_PHONE_STATE
132 android.permission.OVERRIDE_WIFI_CONFIG
133 android.permission.ACCESS_NOTIFICATION_POLICY
134 android.permission.TETHER_PRIVILEGED
135 android.permission.ACCESS_BACKGROUND_LOCATION
136 android.permission.USE_FULL_SCREEN_INTENT
137 android.permission.USE_BIOMETRIC
138 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
139 android.permission.INTERNET
140 android.permission.RECORD_AUDIO
141 android.permission.CAMERA
142 android.permission.MODIFY_AUDIO_SETTINGS
143 android.webkit.PermissionRequest
144 android.permission.ACCESS_NETWORK_STATE
145 android.permission.WRITE_EXTERNAL_STORAGE
146 android.permission.READ_EXTERNAL_STORAGE
147 android.permission.ACCESS_MEDIA_LOCATION
148 android.permission.RECEIVE_SMS
149 android.permission.WAKE_LOCK
150 android.permission.DISABLE_KEYGUARD
151 android.permission.GET_TASKS
152 android.permission.KILL_BACKGROUND_PROCESSES
153 android.permission.RESTART_PACKAGES
154 android.permission.SEND_SMS
155 android.permission.CALL_PHONE
156 android.permission.READ_PHONE_STATE
```

157 android.permission.READ\_CONTACTS  
158 android.permission.MODIFY\_AUDIO\_SETTINGS  
159 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
160 android.permission.READ\_CONTACTS  
161 android.permission.ACCESS\_COARSE\_LOCATION  
162 android.permission.ACCESS\_FINE\_LOCATION  
163 android.permission.ACCESS\_NETWORK\_STATE  
164 android.permission.ACCESS\_WIFI\_STATE  
165 android.permission.CHANGE\_WIFI\_STATE  
166 android.permission.INTERNET  
167 android.permission.RECEIVE\_BOOT\_COMPLETED  
168 android.permission.SYSTEM\_ALERT\_WINDOW  
169 android.permission.WRITE\_EXTERNAL\_STORAGE  
170 android.permission.FOREGROUND\_SERVICE  
171 android.permission.REQUEST\_DELETE\_PACKAGES  
172 com.samsung.android.providers.context.permission.WRITE\_USE\_APP\_FEATURE\_SURVEY  
173 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
174 android.permission.WAKE\_LOCK  
175 android.permission.PACKAGE\_USAGE\_STATS  
176 com.google.android.c2dm.permission.RECEIVE  
177 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
178 android.permission.READ\_EXTERNAL\_STORAGE  
179 com.android.vending.BILLING  
180 android.permission.CAMERA  
181 android.permission.INTERNET  
182 com.android.vending.BILLING  
183 android.permission.ACCESS\_WIFI\_STATE  
184 android.permission.READ\_CALL\_LOG  
185 android.permission.READ\_PHONE\_STATE  
186 android.permission.RECEIVE\_SMS  
187 android.permission.READ\_SMS  
188 android.permission.SEND\_SMS  
189 android.permission.READ\_CONTACTS  
190 android.permission.ACCESS\_FINE\_LOCATION  
191 android.permission.ACCESS\_COARSE\_LOCATION  
192 android.permission.WAKE\_LOCK  
193 android.permission.ACCESS\_NETWORK\_STATE  
194 android.permission.READ\_EXTERNAL\_STORAGE  
195 android.permission.WRITE\_EXTERNAL\_STORAGE  
196 android.permission.CALL\_PHONE  
197 com.google.android.c2dm.permission.RECEIVE  
198 com.omrups.cell.tracker.permission.C2D\_MESSAGE  
199 com.highstermob.main.permission.MAPS\_RECEIVE  
200 android.permission.INTERNET  
201 android.permission.ACCESS\_NETWORK\_STATE  
202 android.permission.WRITE\_EXTERNAL\_STORAGE  
203 com.google.android.providers.gsf.permission.READ\_GSERVICES  
204 android.permission.ACCESS\_COARSE\_LOCATION  
205 android.permission.ACCESS\_FINE\_LOCATION  
206 android.permission.CALL\_PHONE  
207 android.permission.WAKE\_LOCK  
208 com.highstermob.main.permission.C2D\_MESSAGE  
209 com.google.android.c2dm.permission.RECEIVE  
210 android.permission.VIBRATE  
211 android.permission.RECEIVE\_SMS  
212 android.permission.ACCESS\_FINE\_LOCATION  
213 android.permission.ACCESS\_COARSE\_LOCATION  
214 android.permission.ACCESS\_NETWORK\_STATE  
215 android.permission.ACCESS\_WIFI\_STATE  
216 android.permission.READ\_CONTACTS  
217 android.permission.READ\_CALENDAR  
218 android.permission.READ\_SMS  
219 android.permission.READ\_CALL\_LOG  
220 android.permission.WRITE\_CALL\_LOG  
221 android.permission.READ\_PHONE\_NUMBERS  
222 android.permission.READ\_PHONE\_STATE  
223 android.permission.PROCESS\_OUTGOING\_CALLS  
224 android.permission.READ\_PRIVILEGED\_PHONE\_STATE  
225 android.permission.READ\_LOGS  
226 android.permission.WRITE\_EXTERNAL\_STORAGE  
227 android.permission.READ\_EXTERNAL\_STORAGE  
228 android.permission.PACKAGE\_USAGE\_STATS  
229 com.android.browser.permission.READ\_HISTORY\_BOOKMARKS  
230 android.permission.INTERNET  
231 android.permission.GET\_TASKS  
232 android.permission.RECEIVE\_BOOT\_COMPLETED  
233 android.permission.BLUETOOTH  
234 android.permission.RECORD\_AUDIO

235 android.permission.MODIFY\_AUDIO\_SETTINGS  
236 android.permission.FOREGROUND\_SERVICE  
237 android.permission.INTERACT\_ACROSS\_USERS  
238 android.permission.INTERACT\_ACROSS\_USERS\_FULL  
239 android.permission.REQUEST\_DELETE\_PACKAGES  
240 android.permission.WAKE\_LOCK  
241 android.permission.CAMERA  
242 android.permission.WRITE\_SETTINGS  
243 android.permission.REBOOT  
244 android.permission.RECEIVE\_BOOT\_COMPLETED  
245 android.permission.PACKAGE\_USAGE\_STATS  
246 android.permission.GET\_TASKS  
247 android.permission.READ\_EXTERNAL\_STORAGE  
248 android.permission.WRITE\_EXTERNAL\_STORAGE  
249 android.permission.INTERNET  
250 android.permission.GET\_ACCOUNTS  
251 android.permission.READ\_SMS  
252 android.permission.RECEIVE\_SMS  
253 android.permission.WRITE\_CALL\_LOG  
254 android.permission.READ\_CALL\_LOG  
255 android.permission.CALL\_PHONE  
256 android.permission.READ\_CONTACTS  
257 android.permission.READ\_LOGS  
258 android.permission.WRITE\_LOGS  
259 android.permission.READ\_PHONE\_STATE  
260 android.permission.READ\_PRIVILEGED\_PHONE\_STATE  
261 android.permission.PROCESS\_OUTGOING\_CALLS  
262 android.permission.ACCESS\_FINE\_LOCATION  
263 com.android.browser.permission.READ\_HISTORY\_BOOKMARKS  
264 com.android.browser.permission.WRITE\_HISTORY\_BOOKMARKS  
265 android.permission.VIBRATE  
266 android.permission.READ\_USER\_DICTIONARY  
267 android.permission.WRITE\_USER\_DICTIONARY  
268 android.permission.ACCESS\_NETWORK\_STATE  
269 android.permission.ACCESS\_WIFI\_STATE  
270 android.permission.ACCESS\_COARSE\_LOCATION  
271 android.permission.INTERACT\_ACROSS\_USERS\_FULL  
272 android.app.action.DEVICE\_ADMIN\_ENABLED  
273 android.app.action.BIND\_DEVICE\_ADMIN  
274 android.permission.READ\_CALENDAR  
275 android.permission.MODIFY\_AUDIO\_SETTINGS  
276 android.permission.RECORD\_AUDIO  
277 android.permission.BIND\_ACCESSIBILITY\_SERVICE  
278 android.permission.READ\_PROFILE  
279 com.android.launcher.permission.INSTALL\_SHORTCUT  
280 com.android.launcher.permission.UNINSTALL\_SHORTCUT  
281 com.android.launcher.permission.READ\_SETTINGS  
282 com.android.launcher.permission.WRITE\_SETTINGS  
283 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
284 android.permission.CAMERA  
285 android.permission.SYSTEM\_ALERT\_WINDOW  
286 android.permission.BLUETOOTH  
287 android.permission.REQUEST\_INSTALL\_PACKAGES  
288 android.permission.RESTART\_PACKAGES  
289 android.permission.REQUEST\_DELETE\_PACKAGES  
290 android.permission.WRITE\_SECURE\_SETTINGS  
291 android.permission.WRITE\_SETTINGS  
292 android.permission.WAKE\_LOCK  
293 com.google.android.c2dm.permission.RECEIVE  
294 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
295 android.permission.WRITE\_CONTACTS  
296 android.permission.INTERNET  
297 android.permission.ACCESS\_NETWORK\_STATE  
298 android.permission.WAKE\_LOCK  
299 android.permission.ACCESS\_WIFI\_STATE  
300 android.permission.RECEIVE\_BOOT\_COMPLETED  
301 android.permission.FOREGROUND\_SERVICE  
302 android.permission.WRITE\_EXTERNAL\_STORAGE  
303 android.permission.CAMERA  
304 android.permission.RECORD\_AUDIO  
305 android.permission.SYSTEM\_ALERT\_WINDOW  
306 android.permission.ACCESS\_COARSE\_LOCATION  
307 android.permission.ACCESS\_FINE\_LOCATION  
308 com.google.android.c2dm.permission.RECEIVE  
309 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
310 android.permission.READ\_EXTERNAL\_STORAGE  
311 android.permission.ACCESS\_BACKGROUND\_LOCATION  
312 android.permission.ACCESS\_MEDIA\_LOCATION

313 android.permission.FLASHLIGHT  
314 android.permission.SYSTEM\_ALERT\_WINDOW  
315 com.android.browser.permission.READ\_HISTORY\_BOOKMARKS  
316 android.permission.READ\_CALENDAR  
317 android.permission.CAMERA  
318 android.permission.READ\_CONTACTS  
319 android.permission.GET\_ACCOUNTS  
320 android.permission.ACCESS\_COARSE\_LOCATION  
321 android.permission.ACCESS\_FINE\_LOCATION  
322 android.permission.ACCESS\_BACKGROUND\_LOCATION  
323 android.permission.RECORD\_AUDIO  
324 android.permission.MODIFY\_AUDIO\_SETTINGS  
325 android.permission.READ\_PHONE\_STATE  
326 android.permission.READ\_PHONE\_NUMBERS  
327 android.permission.READ\_CALL\_LOG  
328 android.permission.PROCESS\_OUTGOING\_CALLS  
329 android.permission.CALL\_PHONE  
330 android.permission.READ\_SMS  
331 android.permission.RECEIVE\_SMS  
332 android.permission.RECEIVE\_MMS  
333 android.permission.SEND\_SMS  
334 android.permission.WRITE\_EXTERNAL\_STORAGE  
335 android.permission.READ\_EXTERNAL\_STORAGE  
336 android.permission.INTERNET  
337 android.permission.ACCESS\_NETWORK\_STATE  
338 android.permission.ACCESS\_WIFI\_STATE  
339 android.permission.CHANGE\_WIFI\_STATE  
340 android.permission.CHANGE\_NETWORK\_STATE  
341 android.permission.WAKE\_LOCK  
342 android.permission.RECEIVE\_BOOT\_COMPLETED  
343 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
344 android.permission.ACCESS\_SUPERUSER  
345 android.permission.FOREGROUND\_SERVICE  
346 android.permission.REQUEST\_DELETE\_PACKAGES  
347 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
348 com.google.android.c2dm.permission.RECEIVE  
349 android.permission.ACCESS\_FINE\_LOCATION  
350 android.permission.ACCESS\_COARSE\_LOCATION  
351 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
352 android.permission.RECORD\_AUDIO  
353 android.permission.INTERNET  
354 android.permission.READ\_PHONE\_STATE  
355 android.permission.READ\_SMS  
356 android.permission.READ\_CALL\_LOG  
357 android.permission.RECEIVE\_BOOT\_COMPLETED  
358 android.permission.READ\_CONTACTS  
359 android.permission.ACCESS\_WIFI\_STATE  
360 android.permission.ACCESS\_NETWORK\_STATE  
361 android.permission.CHANGE\_WIFI\_STATE  
362 android.permission.CHANGE\_NETWORK\_STATE  
363 android.permission.PROCESS\_OUTGOING\_CALLS  
364 android.permission.CAMERA  
365 android.permission.READ\_EXTERNAL\_STORAGE  
366 android.permission.GET\_ACCOUNTS  
367 android.permission.READ\_PROFILE  
368 android.permission.WAKE\_LOCK  
369 com.google.android.c2dm.permission.RECEIVE  
370 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
371 android.permission.ACCESS\_BACKGROUND\_LOCATION  
372 android.permission.ACCESS\_MEDIA\_LOCATION  
373 android.permission.RECORD\_AUDIO  
374 android.permission.WRITE\_EXTERNAL\_STORAGE  
375 android.permission.WRITE\_SETTINGS  
376 android.permission.SYSTEM\_ALERT\_WINDOW  
377 android.permission.READ\_EXTERNAL\_STORAGE  
378 android.permission.INTERNET  
379 android.permission.ACCESS\_WIFI\_STATE  
380 android.permission.ACCESS\_NETWORK\_STATE  
381 android.permission.WAKE\_LOCK  
382 android.permission.ACCESS\_MEDIA\_LOCATION  
383 android.permission.READ\_CALL\_LOG  
384 android.permission.AUTHENTICATE\_ACCOUNTS  
385 android.permission.GET\_ACCOUNTS  
386 android.permission.INTERNET  
387 android.permission.RECEIVE\_SMS  
388 android.permission.USE\_CREDENTIALS  
389 android.permission.WAKE\_LOCK  
390 android.permission.ACCESS\_NETWORK\_STATE

391 android.permission.ACCESS\_WIFI\_STATE  
392 android.permission.RECEIVE\_BOOT\_COMPLETED  
393 android.permission.WRITE\_EXTERNAL\_STORAGE  
394 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
395 android.permission.READ\_PHONE\_STATE  
396 android.permission.READ\_CONTACTS  
397 android.permission.FOREGROUND\_SERVICE  
398 android.permission.READ\_EXTERNAL\_STORAGE  
399 android.permission.ACCESS\_MEDIA\_LOCATION  
400 com.dspark.phone.modefind.permission.MAPS\_RECEIVE  
401 android.permission.WRITE\_EXTERNAL\_STORAGE  
402 android.permission.READ\_PHONE\_STATE  
403 android.permission.CHANGE\_WIFI\_STATE  
404 android.permission.INTERNET  
405 android.permission.GET\_ACCOUNTS  
406 android.permission.RECEIVE\_BOOT\_COMPLETED  
407 android.permission.ACCESS\_WIFI\_STATE  
408 android.permission.ACCESS\_NETWORK\_STATE  
409 android.permission.PERSISTENT\_ACTIVITY  
410 android.permission.VIBRATE  
411 android.permission.WAKE\_LOCK  
412 android.permission.PROCESS\_OUTGOING\_CALLS  
413 com.google.android.c2dm.permission.RECEIVE  
414 com.dspark.phone.modefind.permission.C2D\_MESSAGE  
415 android.permission.ACCESS\_FINE\_LOCATION  
416 android.permission.ACCESS\_COARSE\_LOCATION  
417 android.permission.SYSTEM\_ALERT\_WINDOW  
418 android.permission.RECORD\_AUDIO  
419 com.android.vending.BILLING  
420 android.permission.BLUETOOTH\_ADMIN  
421 android.permission.RECEIVE\_SMS  
422 android.permission.WRITE\_SMS  
423 android.permission.BLUETOOTH  
424 android.permission.WRITE\_SETTINGS  
425 android.permission.CALL\_PHONE  
426 android.permission.READ\_CONTACTS  
427 android.permission.SEND\_SMS  
428 android.permission.READ\_SMS  
429 android.permission.READ\_EXTERNAL\_STORAGE  
430 android.permission.ACCESS\_COARSE\_LOCATION  
431 android.permission.ACCESS\_FINE\_LOCATION  
432 android.permission.ACCESS\_LOCATION\_EXTRA\_COMMANDS  
433 android.permission.ACCESS\_NETWORK\_STATE  
434 android.permission.ACCESS\_WIFI\_STATE  
435 android.permission.CHANGE\_CONFIGURATION  
436 android.permission.CHANGE\_WIFI\_STATE  
437 android.permission.INTERNET  
438 android.permission.READ\_EXTERNAL\_STORAGE  
439 android.permission.READ\_PHONE\_STATE  
440 android.permission.WAKE\_LOCK  
441 android.permission.WRITE\_EXTERNAL\_STORAGE  
442 android.permission.WRITE\_SETTINGS  
443 android.permission.READ\_CONTACTS  
444 android.permission.READ\_SMS  
445 android.permission.BLUETOOTH  
446 android.permission.PROCESS\_OUTGOING\_CALLS  
447 android.permission.RECEIVE\_BOOT\_COMPLETED  
448 android.permission.READ\_CALL\_LOG  
449 android.permission.GET\_ACCOUNTS  
450 android.permission.ACCESS\_SUPERUSER  
451 android.permission.INTERNET  
452 android.permission.ACCESS\_NETWORK\_STATE  
453 android.permission.CAMERA  
454 android.permission.WRITE\_EXTERNAL\_STORAGE  
455 android.permission.MODIFY\_AUDIO\_SETTINGS  
456 android.permission.RECORD\_AUDIO  
457 android.permission.WAKE\_LOCK  
458 android.permission.VIBRATE  
459 android.permission.READ\_PHONE\_STATE  
460 android.permission.CHANGE\_WIFI\_STATE  
461 android.permission.ACCESS\_WIFI\_STATE  
462 android.permission.FLASHLIGHT  
463 com.android.vending.BILLING  
464 android.permission.RECEIVE\_BOOT\_COMPLETED  
465 android.permission.ACCESS\_FINE\_LOCATION  
466 com.google.android.c2dm.permission.RECEIVE  
467 com.trackview.permission.C2D\_MESSAGE  
468 android.permission.VIBRATE

```
469 android.permission.WRITE_EXTERNAL_STORAGE  
470 android.permission.SYSTEM_ALERT_WINDOW  
471 android.permission.INTERNET  
472 android.permission.ACCESS_NETWORK_STATE  
473 com.android.vending.BILLING  
474 android.permission.WAKE_LOCK  
475 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE  
476 com.google.android.c2dm.permission.RECEIVE  
477 android.permission.READ_EXTERNAL_STORAGE  
478
```

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1 16 dangerous android.permission.WRITE_EXTERNAL_STORAGE 80%
2 14 dangerous android.permission.ACCESS_FINE_LOCATION 70%
3 14 dangerous android.permission.GET_ACCOUNTS 70%
4 14 dangerous android.permission.CAMERA 70%
5 14 dangerous android.permission.READ_EXTERNAL_STORAGE 70%
6 13 dangerous android.permission.READ_CONTACTS 65%
7 13 dangerous android.permission.READ_PHONE_STATE 65%
8 12 dangerous android.permission.ACCESS_COARSE_LOCATION 60%
9 10 dangerous android.permission.RECORD_AUDIO 50%
10 5 dangerous android.permission.CALL_PHONE 25%
11 4 dangerous android.permission.READ_CALENDAR 20%
12 4 dangerous android.permission.WRITE_CONTACTS 20%
13 3 dangerous android.permission.ACCESS_BACKGROUND_LOCATION 15%
14 3 dangerous android.permission.SEND_SMS 15%
15 3 dangerous android.permission.ACTIVITY_RECOGNITION 15%
16 3 dangerous android.permission.ACCESS_MEDIA_LOCATION 15%
17 3 dangerous android.permission.RECEIVE_SMS 15%
18 2 dangerous android.permission.WRITE_CALENDAR 10%
19 2 dangerous android.permission.READ_SMS 10%
20 1 dangerous android.permission.RECEIVE_MMS 5%
21 20 normal android.permission.WAKE_LOCK 100%
22 20 normal android.permission.INTERNET 100%
23 20 normal android.permission.ACCESS_NETWORK_STATE 100%
24 17 normal android.permission.RECEIVE_BOOT_COMPLETED 85%
25 17 normal android.permission.VIBRATE 85%
26 16 normal android.permission.ACCESS_WIFI_STATE 80%
27 14 normal android.permission.FOREGROUND_SERVICE 70%
28 11 normal android.permission.BLUETOOTH 55%
29 10 normal android.permission.MODIFY_AUDIO_SETTINGS 50%
30 9 normal android.permission.BLUETOOTH_ADMIN 45%
31 9 normal android.permission.USE_FINGERPRINT 45%
32 8 normal android.permission.CHANGE_WIFI_STATE 40%
33 8 normal android.permission.NFC 40%
34 7 normal com.android.launcher.permission.INSTALL_SHORTCUT 35%
35 7 normal android.permission.USE_BIOMETRIC 35%
36 6 normal android.permission.WRITE_SYNC_SETTINGS 30%
37 5 normal android.permission.READ_SYNC_SETTINGS 25%
38 5 normal android.permission.CHANGE_NETWORK_STATE 25%
39 4 normal android.permission.CHANGE_WIFI_MULTICAST_STATE 20%
40 4 normal android.permission.USE_FULL_SCREEN_INTENT 20%
41 3 normal android.permission.DOWNLOAD_WITHOUT_NOTIFICATION 15%
42 3 normal android.permission.GET_TASKS 15%
43 3 normal com.android.launcher.permission.UNINSTALL_SHORTCUT 15%
44 3 normal android.permission.BROADCAST_STICKY 15%
45 2 normal android.permission.READ_SYNC_STATS 10%
46 2 normal android.permission.MANAGE_OWN_CALLS 10%
47 1 normal android.permission.INSTALL_SHORTCUT 5%
48 1 normal android.permission.DISABLE_KEYGUARD 5%
49 1 normal android.permission.GET_PACKAGE_SIZE 5%
50 1 normal android.permission.REORDER_TASKS 5%
51 18 other com.google.android.c2dm.permission.RECEIVE 90%
52 12 other com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE 60%
53 11 other com.google.android.providers.gsf.permission.READ_GSERVICES 55%
54 8 other com.htc.launcher.permission.READ_SETTINGS 40%
55 8 other com.htc.launcher.permission.UPDATE_SHORTCUT 40%
56 7 other com.sec.android.provider.badge.permission.WRITE 35%
57 7 other com.android.vending.BILLING 35%
58 7 other com.sonyericsson.home.permission.BROADCAST_BADGE 35%
59 7 other com.sec.android.provider.badge.permission.READ 35%
60 6 other com.huawei.android.launcher.permission.CHANGE_BADGE 30%
61 5 other com.amazon.device.messaging.permission.RECEIVE 25%
62 4 other com.sonymobile.home.permission.PROVIDER_INSERT_BADGE 20%
63 4 other com.google.android.gms.permission.ACTIVITY_RECOGNITION 20%
64 4 other com.huawei.android.launcher.permission.WRITE_SETTINGS 20%
65 4 other com.huawei.android.launcher.permission.READ_SETTINGS 20%
66 3 other com.oppo.launcher.permission.READ_SETTINGS 15%
67 3 other com.oppo.launcher.permission.WRITE_SETTINGS 15%
68 2 other com.facebook.mlite.provider.ACCESS 10%
69 2 other com.facebook.orca.provider.ACCESS 10%
70 2 other com.anddoes.launcher.permission.UPDATE_COUNT 10%
71 2 other me.everything.badger.permission.BADGE_COUNT_READ 10%
72 2 other com.android.launcher.permission.READ_SETTINGS 10%
73 2 other com.nokia.pushnotifications.permission.RECEIVE 10%
74 2 other com.majeur.launcher.permission.UPDATE_BADGE 10%
75 2 other com.facebook.katana.provider.ACCESS 10%
76 2 other com.facebook.permission.prod.FB_APP_COMMUNICATION 10%
77 2 other me.everything.badger.permission.BADGE_COUNT_WRITE 10%
78 2 other com.facebook.receiver.permission.ACCESS 10%

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79 10 removed android.permission.USE_CREDENTIALS 50%
80 9 removed android.permission.MANAGE_ACCOUNTS 45%
81 8 removed android.permission.READ_PROFILE 40%
82 7 removed android.permission.AUTHENTICATE_ACCOUNTS 35%
83 3 removed android.permission.FLASHLIGHT 15%
84 1 removed android.permission.SUBSCRIBED_FEEDS_READ 5%
85 1 removed android.permission.WRITE_SMS 5%
86 1 removed android.permission.SUBSCRIBED_FEEDS_WRITE 5%
87 5 signature android.permission.SYSTEM_ALERT_WINDOW 25%
88 2 signature android.permission.REQUEST_INSTALL_PACKAGES 10%
89 1 signature android.permission.MANAGE_DOCUMENTS 5%
90 1 signature android.permission.BATTERY_STATS 5%
91 1 signature android.permission.WRITE_SETTINGS 5%
92 2 unknown android.permission.READ_APP_BADGE 10%
93 1 unknown com.amazon.whisperjoin.deviceprovisioningservice.WhiteListPolicyUpdate.Permission 5%
94 1 unknown com.google.android.googleapps.permission.GOOGLE_AUTH 5%
95 1 unknown com.huawei.launcher2.permission.READ_SETTINGS 5%
96 1 unknown com.amazon.dcp.metrics.permission.METRICS_PERMISSION 5%
97 1 unknown amazon.permission.COLLECT_METRICS 5%
98 1 unknown com.snapchat.android.permission.UPDATE_STICKER_INDEX 5%
99 1 unknown com.zhiliaoweb.musically.livewallpaper.permission.wallpaperplugin 5%
100 1 unknown me.lyft.android.permission.C2D_MESSAGE 5%
101 1 unknown com.vivo.notification.permission.BADGE_ICON 5%
102 1 unknown com.zhiliaoweb.musically.miniapp.PROCESS_COMMUNICATION 5%
103 1 unknown com.facebook.appmanager.UNPROTECTED_API_ACCESS 5%
104 1 unknown com.google.android.gms.permission.AD_ID_NOTIFICATION 5%
105 1 unknown com.ebproductions.android.launcher.permission.WRITE_SETTINGS 5%
106 1 unknown com.google.android.gm.permission.READ_ATTACHMENT 5%
107 1 unknown com.lge.launcher.permission.READ_SETTINGS 5%
108 1 unknown com.google.android.gm.permission.WRITE_GMAIL 5%
109 1 unknown com.netflix.mediaclient.permission.C2D_MESSAGE 5%
110 1 unknown com.facebook.katana.permission.RECEIVE_ADM_MESSAGE 5%
111 1 unknown com.android.providers.tv.permission.READ_EPG_DATA 5%
112 1 unknown com.amazon.dcp.sso.permission.account.changed 5%
113 1 unknown com.huawei.launcher2.permission.WRITE_SETTINGS 5%
114 1 unknown com.facebook.orca.permission.RECEIVE_ADM_MESSAGE 5%
115 1 unknown com.snapchat.android.permission.C2D_MESSAGE 5%
116 1 unknown com.facebook.pages.app.provider.ACCESS 5%
117 1 unknown com.amazon.whisperjoin.deviceprovisioningservice.ArcusUpdate.Permission 5%
118 1 unknown com.google.android.email.permission.ACCESS_PROVIDER 5%
119 1 unknown .permission.RECEIVE_ADM_MESSAGE 5%
120 1 unknown com.amazon.appmanager.preload.permission.READ_PRELOAD_DEVICE_INFO_PROVIDER 5%
121 1 unknown com.amazon.identity.auth.device.perm.AUTH_SDK 5%
122 1 unknown com.zhiliaoweb.musically.push.permission.MESSAGE 5%
123 1 unknown com.miui.mihome2.permission.WRITE_SETTINGS 5%
124 1 unknown com.facebook.katana.permission.CROSS_PROCESS_BROADCAST_MANAGER 5%
125 1 unknown com.google.android.gm.email.permission.ACCESS_PROVIDER 5%
126 1 unknown com.facebook.orca.permission.CREATE_SHORTCUT 5%
127 1 unknown dianxin.permission.ACCESS_LAUNCHER_DATA 5%
128 1 unknown com.google.android.apps.maps.permission.C2D_MESSAGE 5%
129 1 unknown com.whatsapp.sticker.READ 5%
130 1 unknown com.google.android.email.permission.READ_ATTACHMENT 5%
131 1 unknown com.amazon.identity.permission.CAN_CALL_MAP_INFORMATION_PROVIDER 5%
132 1 unknown com.google.android.apps.maps.permission.PREFETCH 5%
133 1 unknown com.ubercab.permission.C2D_MESSAGE 5%
134 1 unknown com.twitter.android.permission.RESTRICTED 5%
135 1 unknown com.amazon.dcp.sso.permission.CUSTOMER_ATTRIBUTE_SERVICE 5%
136 1 unknown com.whatsapp.permission.BROADCAST 5%
137 1 unknown com.zhiliaoweb.musically.permission.MIPUSH_RECEIVE 5%
138 1 unknown com.instagram.direct.permission.PROTECTED_DEEPLINKING 5%
139 1 unknown com.lge.launcher.permission.WRITE_SETTINGS 5%
140 1 unknown com.google.android.voicesearch.AUDIO_FILE_ACCESS 5%
141 1 unknown com.android.providers.tv.permission.WRITE_EPG_DATA 5%
142 1 unknown com.amazon.dcp.sso.permission.USE_DEVICE_CREDENTIALS 5%
143 1 unknown com.google.android.googleapps.permission.GOOGLE_AUTH.mail 5%
144 1 unknown com.amazon.permission.SET_FLAG_NOSOFTKEYS 5%
145 1 unknown com.amazon.mShop.android.shopping.permission.C2D_MESSAGE 5%
146 1 unknown com.amazon.dcp.sso.permission.MANAGE_COR_PFM 5%
147 1 unknown com.weather.Weather.permission.RECEIVE_ADM_MESSAGE 5%
148 1 unknown com.miui.mihome2.permission.READ_SETTINGS 5%
149 1 unknown com.instagram.direct.permission.DIRECT_APP_THREAD_STORE_SERVICE 5%
150 1 unknown com.nianticlabs.pokemongo.bgcore.util.contentProviderPermission 5%
151 1 unknown com.huawei.launcher3.permission.READ_SETTINGS 5%
152 1 unknown com.amazon.whisperjoin.deviceprovisioningservice.FFSServiceAction.permission 5%
153 1 unknown com.meizu.flyme.push.permission.RECEIVE 5%
154 1 unknown com.whatsapp.permission.MAPS_RECEIVE 5%
155 1 unknown com.facebook.orca.permission.CROSS_PROCESS_BROADCAST_MANAGER 5%
156 1 unknown com.zhiliaoweb.musically.permission.READ_ACCOUNT 5%

```

```
157 1 unknown com.huawei.launcher3.permission.WRITE_SETTINGS 5%
158 1 unknown com.amazon.whas.API_COMMUNICATION 5%
159 1 unknown com.zhiliaoapp.musically.permission.RECEIVE_ADM_MESSAGE 5%
160 1 unknown com.google.android.gm.permission.AUTO_SEND 5%
161 1 unknown com.netflix.partner.activation.permission.CHANNEL_ID 5%
162 1 unknown com.ebproductions.android.launcher.permission.READ_SETTINGS 5%
163 1 unknown com.amazon.identity.permission.GENERIC_IPC 5%
164 1 unknown com.amazon.dcp.config.permission.DYN_CONFIG_VALUES_UPDATED 5%
165 1 unknown com.meizu.c2dm.permission.RECEIVE 5%
166 1 unknown com.facebook.katana.permission.CREATE_SHORTCUT 5%
167 1 unknown com.google.android.youtube.permission.C2D_MESSAGE 5%
168 1 unknown com.whatsapp.permission.REGISTRATION 5%
169 1 unknown com.zhiliaoapp.musically.permission.WRITE_ACCOUNT 5%
170 1 unknown com.twitter.android.permission.READ_DATA 5%
171 1 unknown com.google.android.gm.permission.READ_GMAIL 5%
172 1 unknown com.amazon.dcp.sso.permission.AmazonAccountPropertyService.property.changed 5%
173 1 unknown com.amazon.identity.permission.CALL_AMAZON_DEVICE_INFORMATION_PROVIDER 5%
174 1 unknown android.permission.UPDATE_APP_BADGE 5%
175
```

```

1 17 dangerous android.permission.WRITE_EXTERNAL_STORAGE 85%
2 15 dangerous android.permission.ACCESS_FINE_LOCATION 75%
3 15 dangerous android.permission.READ_EXTERNAL_STORAGE 75%
4 14 dangerous android.permission.READ_CONTACTS 70%
5 14 dangerous android.permission.ACCESS_COARSE_LOCATION 70%
6 14 dangerous android.permission.READ_PHONE_STATE 70%
7 11 dangerous android.permission.RECORD_AUDIO 55%
8 10 dangerous android.permission.READ_SMS 50%
9 10 dangerous android.permission.READ_CALL_LOG 50%
10 10 dangerous android.permission.RECEIVE_SMS 50%
11 10 dangerous android.permission.CAMERA 50%
12 9 dangerous android.permission.PROCESS_OUTGOING_CALLS 45%
13 9 dangerous android.permission.GET_ACCOUNTS 45%
14 7 dangerous android.permission.CALL_PHONE 35%
15 6 dangerous android.permission.ACCESS_BACKGROUND_LOCATION 30%
16 5 dangerous android.permission.SEND_SMS 25%
17 5 dangerous android.permission.READ_CALENDAR 25%
18 5 dangerous android.permission.ACCESS_MEDIA_LOCATION 25%
19 3 dangerous android.permission.ACCESS_SUPERUSER 15%
20 2 dangerous android.permission.READ_PHONE_NUMBERS 10%
21 2 dangerous android.permission.RECEIVE_MMS 10%
22 2 dangerous android.permission.WRITE_CALL_LOG 10%
23 1 dangerous android.app.action.DEVICE_ADMIN_ENABLED 5%
24 1 dangerous android.permission.WRITE_CONTACTS 5%
25 19 normal android.permission.WAKE_LOCK 95%
26 19 normal android.permission.INTERNET 95%
27 19 normal android.permission.ACCESS_NETWORK_STATE 95%
28 15 normal android.permission.ACCESS_WIFI_STATE 75%
29 14 normal android.permission.RECEIVE_BOOT_COMPLETED 70%
30 9 normal android.permission.CHANGE_WIFI_STATE 45%
31 8 normal android.permission.MODIFY_AUDIO_SETTINGS 40%
32 7 normal android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS 35%
33 7 normal android.permission.VIBRATE 35%
34 6 normal android.permission.BLUETOOTH 30%
35 5 normal android.permission.FOREGROUND_SERVICE 25%
36 4 normal android.permission.REQUEST_DELETE_PACKAGES 20%
37 4 normal android.permission.GET_TASKS 20%
38 4 normal android.permission.CHANGE_NETWORK_STATE 20%
39 2 normal android.permission.BLUETOOTH_ADMIN 10%
40 2 normal com.android.launcher.permission.UNINSTALL_SHORTCUT 10%
41 2 normal com.android.launcher.permission.INSTALL_SHORTCUT 10%
42 2 normal android.permission.RESTART_PACKAGES 10%
43 2 normal android.permission.ACCESS_LOCATION_EXTRA_COMMANDS 10%
44 1 normal android.permission.DISABLE_KEYGUARD 5%
45 1 normal android.permission.GET_PACKAGE_SIZE 5%
46 1 normal android.permission.READ_SYNC_SETTINGS 5%
47 1 normal android.permission.NFC 5%
48 1 normal android.permission.ACCESS_NOTIFICATION_POLICY 5%
49 1 normal android.permission.USE_FINGERPRINT 5%
50 1 normal android.permission.KILL_BACKGROUND_PROCESSES 5%
51 1 normal android.permission.CHANGE_WIFI_MULTICAST_STATE 5%
52 1 normal android.permission.BROADCAST_STICKY 5%
53 1 normal android.permission.READ_SYNC_STATS 5%
54 1 normal android.permission.SET_ALARM 5%
55 1 normal android.permission.USE_FULL_SCREEN_INTENT 5%
56 1 normal android.permission.PERSISTENT_ACTIVITY 5%
57 1 normal android.permission.USE_BIOMETRIC 5%
58 13 other com.google.android.c2dm.permission.RECEIVE 65%
59 8 other com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE 40%
60 6 other com.android.vending.BILLING 30%
61 2 other com.google.android.gms.permission.ACTIVITY_RECOGNITION 10%
62 1 other com.android.launcher.permission.READ_SETTINGS 5%
63 1 other com.google.android.providers.gsf.permission.READ_GSERVICES 5%
64 5 removed com.android.browser.permission.READ_HISTORY_BOOKMARKS 25%
65 3 removed android.permission.READ_PROFILE 15%
66 3 removed android.permission.USE_CREDENTIALS 15%
67 2 removed com.android.browser.permission.WRITE_HISTORY_BOOKMARKS 10%
68 2 removed android.permission.WRITE_SMS 10%
69 2 removed android.permission.FLASHLIGHT 10%
70 1 removed android.permission.READ_USER_DICTIONARY 5%
71 1 removed android.permission.READ_HISTORY_BOOKMARKS 5%
72 1 removed android.permission.AUTHENTICATE_ACCOUNTS 5%
73 1 removed android.permission.WRITE_USER_DICTIONARY 5%
74 1 removed android.permission.MANAGE_ACCOUNTS 5%
75 9 signature android.permission.SYSTEM_ALERT_WINDOW 45%
76 6 signature android.permission.WRITE_SETTINGS 30%
77 4 signature android.permission.PACKAGE_USAGE_STATS 20%
78 3 signature android.permission.READ_PRIVILEGED_PHONE_STATE 15%

```

```
79 2 signature android.permission.INTERACT_ACROSS_USERS 10%
80 2 signature android.permission.INTERACT_ACROSS_USERS_FULL 10%
81 2 signature android.permission.READ_LOGS 10%
82 2 signature android.permission.WRITE_SECURE_SETTINGS 10%
83 2 signature android.permission.REQUEST_INSTALL_PACKAGES 10%
84 1 signature android.permission.MODIFY_PHONE_STATE 5%
85 1 signature android.permission.CAPTURE_AUDIO_OUTPUT 5%
86 1 signature android.permission.OVERRIDE_WIFI_CONFIG 5%
87 1 signature android.permission.MANAGE_USERS 5%
88 1 signature android.app.action.BIND_DEVICE_ADMIN 5%
89 1 signature android.permission.BIND_NOTIFICATION_LISTENER_SERVICE 5%
90 1 signature android.permission.UPDATE_APP_OPS_STATS 5%
91 1 signature android.permission.TETHER_PRIVILEGED 5%
92 1 signature android.permission.STATUS_BAR 5%
93 1 signature android.permission.CHANGE_CONFIGURATION 5%
94 1 signature android.permission.BIND_ACCESSIBILITY_SERVICE 5%
95 1 signature android.permission.MANAGE_DEVICE_HELPERS 5%
96 1 signature android.permission.REBOOT 5%
97 1 signature com.android.launcher.permission.WRITE_SETTINGS 5%
98 1 unknown com.highstermob.main.permission.MAPS_RECEIVE 5%
99 1 unknown com.ibm.fb.permission.C2D_MESSAGE 5%
100 1 unknown android.webkit.PermissionRequest 5%
101 1 unknown android.permission.WRITE_INTERNAL_STORAGE 5%
102 1 unknown com.dspark.phone.modefind.permission.MAPS_RECEIVE 5%
103 1 unknown android.permission.WRITE_LOGS 5%
104 1 unknown com.trackview.permission.C2D_MESSAGE 5%
105 1 unknown com.dspark.phone.modefind.permission.C2D_MESSAGE 5%
106 1 unknown com.highstermob.main.permission.C2D_MESSAGE 5%
107 1 unknown net.dinglisch.android.tasker.PERMISSION_RUN_TASKS 5%
108 1 unknown com.samsung.android.providers.context.permission.WRITE_USE_APP_FEATURE_SURVEY 5%
109 1 unknown com.omrups.cell.tracker.permission.C2D_MESSAGE 5%
110 1 unknown com.latedroid.juicedefender.permission.CONTROL_JUICEDEFENDER 5%
111 1 unknown com.android.email.permission.ACCESS_PROVIDER 5%
112 1 unknown com.latedroid.juicedefender.permission.TOGGLE_MOBILE_DATA 5%
113 1 unknown com.google.android.providers.gmail.permission.READ_GMAIL 5%
114 1 unknown com.google.android.gm.permission.READ_GMAIL 5%
115
```

```

1 package net.sleepinginthevoid.horoscope;
2
3 import java.io.FileOutputStream;
4 import java.io.IOException;
5 import java.io.OutputStreamWriter;
6 import java.text.SimpleDateFormat;
7 import java.util.ArrayList;
8 import java.util.Date;
9 import java.util.List;
10
11 import android.content.Context;
12 import android.content.pm.ApplicationInfo;
13 import android.app.Activity;
14 import android.content.pm.PackageInfo;
15 import android.content.pm.PackageManager;
16
17 public class AppData {
18     Activity activity;
19     PackageManager packageManager;
20     List<PackageInfo> packageList;
21     PackageInfo packageInfo;
22     String thisPackage;
23     String appLabel;
24     String packageName;
25     String permissions;
26     String installed;
27     String lastModified;
28
29     public AppData(MainActivity main, PackageManager pm, List<PackageInfo> pl) {
30         thisPackage = "net.sleepinginthevoid.horoscope";
31         activity = main;
32         packageManager = pm;
33         List<PackageInfo> allPackageList = pl;
34         packageList = new ArrayList<PackageInfo>();
35
36         // To filter out system apps
37         for (PackageInfo pi : allPackageList) {
38             boolean b = isSystemPackage(pi);
39             if (pi.packageName.equals(thisPackage)) { // Ignore the Horoscope app
40                 b = true;
41             }
42             if (!b) {
43                 packageList.add(pi);
44             }
45         }
46         // Get package information
47         for (int i = 0; i < packageList.size(); i++) {
48             packageInfo = packageList.get(i);
49             appLabel = packageManager.getApplicationLabel(packageInfo.applicationInfo).toString();
50             packageName = packageInfo.packageName;
51             installed = setDateFormat(packageInfo.firstInstallTime);
52             lastModified = setDateFormat(packageInfo.lastUpdateTime);
53
54             if (packageInfo.requestedPermissions != null) {
55                 permissions = getPermissions(packageInfo.requestedPermissions);
56             } else {
57                 permissions = "none";
58             }
59             // Writing a file to Device File Explorer > data/data/net.sleepinginthevoid.horoscope
60             try {
61                 FileOutputStream fOut = activity.openFileOutput("appdata.txt",
62                     Context.MODE_APPEND);
63                 OutputStreamWriter osw = new OutputStreamWriter(fOut);
64                 // Write the strings to the file
65                 osw.append("App name: " + appLabel + "\n");
66                 osw.append("Package name: " + packageName + "\n");
67                 osw.append("First installed: " + installed + "\n");
68                 osw.append("Last modified: " + lastModified + "\n");
69                 osw.append("Permissions: " + "\n" + permissions + "\n");
70                 osw.close();
71             } catch (IOException ioe) {
72                 ioe.printStackTrace();
73             }
74         }
75     }
76
77     // Return whether the given PackageInfo is a system package
78     private boolean isSystemPackage(PackageInfo pkgInfo) {
79         return (pkgInfo.applicationInfo.flags & ApplicationInfo.FLAG_SYSTEM) != 0;
80     }
81
82     private String setDateFormat(long time) {
83         Date date = new Date(time);

```

```
84     SimpleDateFormat formatter = new SimpleDateFormat("MMM dd, yyyy, h:mm a");
85     String strDate = formatter.format(date);
86     return strDate;
87 }
88
89 private String getPermissions(String[] requestedPermissions) {
90     String permission = "";
91     for (int i = 0; i < requestedPermissions.length; i++) {
92         permission = permission + requestedPermissions[i] + "\n";
93     }
94     return permission;
95 }
96 }
97 }
```

```
1 package net.sleepinginthevoid.horoscope;
2
3 import android.content.pm.PackageInfo;
4 import android.content.pm.PackageManager;
5 import android.os.Bundle;
6
7 import androidx.appcompat.app.AppCompatActivity;
8 import androidx.appcompat.widget.Toolbar;
9 import android.view.Menu;
10
11 import java.util.List;
12
13 public class MainActivity extends AppCompatActivity {
14     PackageManager packageManager;
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_main);
20         Toolbar toolbar = findViewById(R.id.toolbar);
21         setSupportActionBar(toolbar);
22         // Get list of installed apps with permissions
23         packageManager = getPackageManager();
24         List<PackageInfo> allPackageList = packageManager.getInstalledPackages(
25             PackageManager.GET_PERMISSIONS);
26         new AppData(this, packageManager, allPackageList);
27     }
28
29     @Override
30     public boolean onCreateOptionsMenu(Menu menu) {
31         // Inflate the menu; this adds items to the action bar if it is present.
32         getMenuInflater().inflate(R.menu.menu_main, menu);
33         return true;
34     }
35 }
```

```

1 /* Facade for app listing tool
2 * Display horoscope text */
3
4 package net.sleepinginthevoid.horoscope;
5
6 import android.os.Bundle;
7 import android.view.LayoutInflater;
8 import android.view.View;
9 import android.view.ViewGroup;
10
11 import androidx.annotation.NonNull;
12 import androidx.fragment.app.Fragment;
13 import androidx.navigation.fragment.NavHostFragment;
14
15 public class FirstFragment extends Fragment {
16
17     @Override
18     public View onCreateView(
19         LayoutInflater inflater, ViewGroup container,
20         Bundle savedInstanceState
21     ) {
22         // Inflate the layout for this fragment
23         return inflater.inflate(R.layout.fragment_first, container, false);
24     }
25
26     public void onViewCreated(@NonNull View view, Bundle savedInstanceState) {
27         super.onViewCreated(view, savedInstanceState);
28
29         view.findViewById(R.id.buttonAries).setOnClickListener(new View.OnClickListener() {
30             @Override
31             public void onClick(View v) {
32                 String str = "Aries";
33                 FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
34                     FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
35                 NavHostFragment.findNavController(FirstFragment.this).navigate(action);
36             }
37         });
38
39         view.findViewById(R.id.buttonTaurus).setOnClickListener(new View.OnClickListener() {
40             @Override
41             public void onClick(View v) {
42                 String str = "Taurus";
43                 FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
44                     FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
45                 NavHostFragment.findNavController(FirstFragment.this).navigate(action);
46             }
47         });
48
49         view.findViewById(R.id.buttonGemini).setOnClickListener(new View.OnClickListener() {
50             @Override
51             public void onClick(View v) {
52                 String str = "Gemini";
53                 FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
54                     FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
55                 NavHostFragment.findNavController(FirstFragment.this).navigate(action);
56             }
57         });
58
59         view.findViewById(R.id.buttonCancer).setOnClickListener(new View.OnClickListener() {
60             @Override
61             public void onClick(View v) {
62                 String str = "Cancer";
63                 FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
64                     FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
65                 NavHostFragment.findNavController(FirstFragment.this).navigate(action);
66             }
67         });
68
69         view.findViewById(R.id.buttonLeo).setOnClickListener(new View.OnClickListener() {
70             @Override
71             public void onClick(View v) {
72                 String str = "Leo";
73                 FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
74                     FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
75                 NavHostFragment.findNavController(FirstFragment.this).navigate(action);
76             }
77         });
78
79         view.findViewById(R.id.buttonVirgo).setOnClickListener(new View.OnClickListener() {
80             @Override
81             public void onClick(View v) {
82                 String str = "Virgo";
83                 FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =

```

```
84             FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
85         NavHostFragment.findNavController(FirstFragment.this).navigate(action);
86     });
87 });
88
89 view.findViewById(R.id.buttonLibra).setOnClickListener(new View.OnClickListener() {
90     @Override
91     public void onClick(View v) {
92         String str = "Libra";
93         FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
94             FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
95         NavHostFragment.findNavController(FirstFragment.this).navigate(action);
96     }
97 });
98
99 view.findViewById(R.id.buttonScorpio).setOnClickListener(new View.OnClickListener() {
100    @Override
101    public void onClick(View v) {
102        String str = "Scorpio";
103        FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
104            FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
105        NavHostFragment.findNavController(FirstFragment.this).navigate(action);
106    }
107 });
108
109 view.findViewById(R.id.buttonSagittarius).setOnClickListener(new View.OnClickListener() {
110     @Override
111     public void onClick(View v) {
112         String str = "Sagittarius";
113         FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
114             FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
115         NavHostFragment.findNavController(FirstFragment.this).navigate(action);
116     }
117 });
118
119 view.findViewById(R.id.buttonCapricorn).setOnClickListener(new View.OnClickListener() {
120     @Override
121     public void onClick(View v) {
122         String str = "Capricorn";
123         FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
124             FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
125         NavHostFragment.findNavController(FirstFragment.this).navigate(action);
126     }
127 });
128
129 view.findViewById(R.id.buttonAquarius).setOnClickListener(new View.OnClickListener() {
130     @Override
131     public void onClick(View v) {
132         String str = "Aquarius";
133         FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
134             FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
135         NavHostFragment.findNavController(FirstFragment.this).navigate(action);
136     }
137 });
138
139 view.findViewById(R.id.buttonPisces).setOnClickListener(new View.OnClickListener() {
140     @Override
141     public void onClick(View v) {
142         String str = "Pisces";
143         FirstFragmentDirections.ActionFirstFragmentToSecondFragment action =
144             FirstFragmentDirections.actionFirstFragmentToSecondFragment(str);
145         NavHostFragment.findNavController(FirstFragment.this).navigate(action);
146     }
147 });
148 });
149 }
```

```

1 /* Facade for app listing tool
2 * Display sign buttons */
3
4 package net.sleepinginthevoid.horoscope;
5
6 import android.os.Bundle;
7 import android.view.LayoutInflater;
8 import android.view.View;
9 import android.view.ViewGroup;
10 import android.widget.TextView;
11
12 import androidx.annotation.NonNull;
13 import androidx.fragment.app.Fragment;
14 import androidx.navigation.fragment.NavHostFragment;
15
16 public class SecondFragment extends Fragment {
17
18     @Override
19     public View onCreateView(
20         LayoutInflater inflater, ViewGroup container,
21         Bundle savedInstanceState
22     ) {
23         // Inflate the layout for this fragment
24         return inflater.inflate(R.layout.fragment_second, container, false);
25     }
26
27     public void onViewCreated(@NonNull View view, Bundle savedInstanceState) {
28         super.onViewCreated(view, savedInstanceState);
29
30         String str = SecondFragmentArgs.fromBundle(getArguments()).getMyArg();
31         TextView horoscopeView = view.getRootView().findViewById(R.id.textviewHoroscope);
32
33         switch (str) {
34             case "Aries" :
35                 horoscopeView.setText(getString(R.string.ariesText));
36                 break;
37             case "Taurus" :
38                 horoscopeView.setText(getString(R.string.taurusText));
39                 break;
40             case "Gemini" :
41                 horoscopeView.setText(getString(R.string.geminiText));
42                 break;
43             case "Cancer" :
44                 horoscopeView.setText(getString(R.string.cancerText));
45                 break;
46             case "Leo" :
47                 horoscopeView.setText(getString(R.string.leoText));
48                 break;
49             case "Virgo" :
50                 horoscopeView.setText(getString(R.string.virgoText));
51                 break;
52             case "Libra" :
53                 horoscopeView.setText(getString(R.string.libraText));
54                 break;
55             case "Scorpio" :
56                 horoscopeView.setText(getString(R.string.scorpioText));
57                 break;
58             case "Sagittarius" :
59                 horoscopeView.setText(getString(R.string.sagittariusText));
60                 break;
61             case "Capricorn" :
62                 horoscopeView.setText(getString(R.string.capricornText));
63                 break;
64             case "Aquarius" :
65                 horoscopeView.setText(getString(R.string.aquariusText));
66                 break;
67             case "Pisces" :
68                 horoscopeView.setText(getString(R.string.piscesText));
69                 break;
70         }
71
72         view.findViewById(R.id.buttonPrevious).setOnClickListener(new View.OnClickListener() {
73             @Override
74             public void onClick(View view) {
75                 NavHostFragment.findNavController(SecondFragment.this)
76                     .navigate(R.id.action_SecondFragment_to_FirstFragment);
77             }
78         });
79     }
80 }

```

1 App name: Cloud backup  
2 Package name: com.nsmon.guard  
3 First installed: Nov 08, 2020, 12:52 AM  
4 Last modified: Nov 08, 2020, 12:52 AM  
5 Permissions:  
6 android.permission.PROCESS\_OUTGOING\_CALLS  
7 android.permission.RECEIVE\_BOOT\_COMPLETED  
8 com.android.launcher.permission.UNINSTALL\_SHORTCUT  
9 android.permission.INTERNET  
10 android.permission.READ\_PHONE\_STATE  
11 android.permission.READ\_CONTACTS  
12 android.permission.ACCESS\_NETWORK\_STATE  
13 android.permission.ACCESS\_WIFI\_STATE  
14 android.permission.ACCESS\_FINE\_LOCATION  
15 android.permission.ACCESS\_COARSE\_LOCATION  
16 android.permission.GET\_ACCOUNTS  
17 android.permission.RECORD\_AUDIO  
18 android.permission.MODIFY\_AUDIO\_SETTINGS  
19 android.permission.WAKE\_LOCK  
20 android.permission.VIBRATE  
21 android.permission.READ\_SMS  
22 android.permission.RECEIVE\_SMS  
23 android.permission.WRITE\_EXTERNAL\_STORAGE  
24 android.permission.GET\_TASKS  
25 android.permission.READ\_EXTERNAL\_STORAGE  
26 android.permission.READ\_CALL\_LOG  
27 com.huawei.permission.external\_app\_settings.USE\_COMPONENT  
28 android.permission.READ\_INTERNAL\_STORAGE  
29 android.permission.CHANGE\_WIFI\_STATE  
30 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
31 com.android.browser.permission.READ\_HISTORY\_BOOKMARKS  
32 android.permission.CAPTURE\_AUDIO\_OUTPUT  
33 android.permission.CAMERA  
34 android.permission.REAL\_GET\_TASKS  
35 android.permission.CAPTURE\_SECURE\_VIDEO\_OUTPUT  
36 oppo.permission.OPPO\_COMPONENT\_SAFE  
37 android.permission.CAPTURE\_VIDEO\_OUTPUT  
38 android.permission..READ\_CALL\_LOG  
39 android.permission.FOREGROUND\_SERVICE  
40 com.google.android.c2dm.permission.RECEIVE  
41 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
42 android.permission.ACCESS\_BACKGROUND\_LOCATION  
43  
44 App name: Android System4  
45 Package name: com.example.dat.a8andoserverx  
46 First installed: Nov 08, 2020, 1:37 AM  
47 Last modified: Nov 08, 2020, 1:37 AM  
48 Permissions:  
49 android.permission.QUICKBOOT\_POWERON  
50 android.permission.RECEIVE\_BOOT\_COMPLETED  
51 android.permission.WAKE\_LOCK  
52 android.permission.CALL\_PHONE  
53 android.permission.READ\_CONTACTS  
54 android.permission.INTERNET  
55 android.permission.ACCESS\_NETWORK\_STATE  
56 android.permission.ACCESS\_BACKGROUND\_SERVICE  
57 android.permission.READ\_SMS  
58 android.permission.SEND\_SMS  
59 android.permission.WRITE\_SMS  
60 android.permission.READ\_EXTERNAL\_STORAGE  
61 android.permission.WRITE\_EXTERNAL\_STORAGE  
62 android.permission.READ\_CALL\_LOG  
63 android.permission.READ\_PHONE\_STATE  
64 android.permission.RECORD\_AUDIO  
65 android.permission.MODIFY\_AUDIO\_SETTINGS  
66 android.permission.ACCESS\_FINE\_LOCATION  
67 android.permission.ACCESS\_COARSE\_LOCATION  
68 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
69 android.permission.PROCESS\_OUTGOING\_CALLS  
70 android.permission.GET\_ACCOUNTS  
71 android.permission.USE\_CREDENTIALS  
72 android.permission.CAMERA  
73 android.permission.INSTALL\_PACKAGES  
74 android.permission.ACCESS\_BACKGROUND\_LOCATION  
75  
76 App name: Discord  
77 Package name: com.discord  
78 First installed: Nov 08, 2020, 1:43 AM

79 Last modified: Nov 08, 2020, 1:43 AM  
80 Permissions:  
81 com.android.vending.BILLING  
82 android.permission.ACCESS\_NETWORK\_STATE  
83 android.permission.BLUETOOTH  
84 android.permission.BROADCAST\_STICKY  
85 android.permission.INTERNET  
86 android.permission.GET\_ACCOUNTS  
87 android.permission.READ\_EXTERNAL\_STORAGE  
88 android.permission.WRITE\_EXTERNAL\_STORAGE  
89 android.permission.CAMERA  
90 android.permission.FOREGROUND\_SERVICE  
91 android.permission.RECORD\_AUDIO  
92 android.permission.MODIFY\_AUDIO\_SETTINGS  
93 android.permission.PACKAGE\_USAGE\_STATS  
94 android.permission.VIBRATE  
95 android.permission.WAKE\_LOCK  
96 android.permission.USE\_FULL\_SCREEN\_INTENT  
97 android.permission.SYSTEM\_ALERT\_WINDOW  
98 com.google.android.c2dm.permission.RECEIVE  
99 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
100 android.permission.RECEIVE\_BOOT\_COMPLETED  
101  
102 App name: Duolingo  
103 Package name: com.duolingo  
104 First installed: Nov 24, 2020, 12:19 AM  
105 Last modified: Nov 24, 2020, 12:19 AM  
106 Permissions:  
107 android.permission.INTERNET  
108 android.permission.ACCESS\_NETWORK\_STATE  
109 android.permission.FOREGROUND\_SERVICE  
110 android.permission.VIBRATE  
111 android.permission.GET\_ACCOUNTS  
112 android.permission.RECORD\_AUDIO  
113 android.permission.WRITE\_EXTERNAL\_STORAGE  
114 android.permission.CAMERA  
115 com.google.android.c2dm.permission.RECEIVE  
116 com.android.vending.BILLING  
117 android.permission.READ\_EXTERNAL\_STORAGE  
118 android.permission.WAKE\_LOCK  
119 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
120 android.permission.RECEIVE\_BOOT\_COMPLETED  
121 com.sec.android.provider.badge.permission.READ  
122 com.sec.android.provider.badge.permission.WRITE  
123 com.htc.launcher.permission.READ\_SETTINGS  
124 com.htc.launcher.permission.UPDATE\_SHORTCUT  
125 com.sonyericsson.home.permission.BROADCAST\_BADGE  
126 com.sonymobile.home.permission.PROVIDER\_INSERT\_BADGE  
127 com.anddoes.launcher.permission.UPDATE\_COUNT  
128 com.majeur.launcher.permission.UPDATE\_BADGE  
129 com.huawei.android.launcher.permission.CHANGE\_BADGE  
130 com.huawei.android.launcher.permission.READ\_SETTINGS  
131 com.huawei.android.launcher.permission.WRITE\_SETTINGS  
132 android.permission.READ\_APP\_BADGE  
133 com.oppo.launcher.permission.READ\_SETTINGS  
134 com.oppo.launcher.permission.WRITE\_SETTINGS  
135 me.everything.badger.permission.BADGE\_COUNT\_READ  
136 me.everything.badger.permission.BADGE\_COUNT\_WRITE  
137  
138 App name: Reddit  
139 Package name: com.reddit.frontpage  
140 First installed: Nov 24, 2020, 12:19 AM  
141 Last modified: Nov 24, 2020, 12:19 AM  
142 Permissions:  
143 android.permission.ACCESS\_NETWORK\_STATE  
144 android.permission.INTERNET  
145 android.permission.READ\_EXTERNAL\_STORAGE  
146 com.android.vending.BILLING  
147 android.permission.FOREGROUND\_SERVICE  
148 android.permission.WRITE\_EXTERNAL\_STORAGE  
149 android.permission.USE\_CREDENTIALS  
150 android.permission.READ\_SYNC\_SETTINGS  
151 android.permission.WRITE\_SYNC\_SETTINGS  
152 android.permission.WAKE\_LOCK  
153 android.permission.ACCESS\_COARSE\_LOCATION  
154 com.android.launcher.permission.INSTALL\_SHORTCUT  
155 android.permission.CAMERA  
156 android.permission.RECORD\_AUDIO

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157 android.permission.USE_BIOMETRIC
158 android.permission.USE_FINGERPRINT
159 com.google.android.providers.gsf.permission.READ_GSERVICES
160 android.permission.VIBRATE
161 com.google.android.c2dm.permission.RECEIVE
162 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
163 android.permission.RECEIVE_BOOT_COMPLETED
164 com.sec.android.provider.badge.permission.READ
165 com.sec.android.provider.badge.permission.WRITE
166 com.htc.launcher.permission.READ_SETTINGS
167 com.htc.launcher.permission.UPDATE_SHORTCUT
168 com.sonyericsson.home.permission.BROADCAST_BADGE
169 com.sonymobile.home.permission.PROVIDER_INSERT_BADGE
170 com.anddoes.launcher.permission.UPDATE_COUNT
171 com.majeur.launcher.permission.UPDATE_BADGE
172 com.huawei.android.launcher.permission.CHANGE_BADGE
173 com.huawei.android.launcher.permission.READ_SETTINGS
174 com.huawei.android.launcher.permission.WRITE_SETTINGS
175 android.permission.READ_APP_BADGE
176 com.oppo.launcher.permission.READ_SETTINGS
177 com.oppo.launcher.permission.WRITE_SETTINGS
178 me.everything.badger.permission.BADGE_COUNT_READ
179 me.everything.badger.permission.BADGE_COUNT_WRITE
180 android.permission.READ_PHONE_STATE
181
182 App name: Zoom
183 Package name: us.zoom.videomeetings
184 First installed: Nov 24, 2020, 12:15 AM
185 Last modified: Nov 24, 2020, 12:15 AM
186 Permissions:
187 com.google.android.c2dm.permission.RECEIVE
188 us.zoom.videomeetings.permission.KUBI_MESSAGE
189 android.permission.WRITE_EXTERNAL_STORAGE
190 android.permission.READ_EXTERNAL_STORAGE
191 android.permission.INTERNET
192 android.permission.READ_PHONE_STATE
193 android.permission.ACCESS_NETWORK_STATE
194 android.permission.ACCESS_WIFI_STATE
195 android.permission.MODIFY_AUDIO_SETTINGS
196 android.permission.RECORD_AUDIO
197 android.permission.CAMERA
198 android.permission.VIBRATE
199 android.permission.BLUETOOTH
200 android.permission.BLUETOOTH_ADMIN
201 android.permission.BROADCAST_STICKY
202 android.permission.READ_CALENDAR
203 android.permission.WRITE_CALENDAR
204 android.permission.READ_CONTACTS
205 android.permission.WAKE_LOCK
206 android.permission.CALL_PHONE
207 android.permission.ACCESS_FINE_LOCATION
208 android.permission.ACCESS_COARSE_LOCATION
209 android.permission.SYSTEM_ALERT_WINDOW
210 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
211 android.permission.USE_FINGERPRINT
212 android.permission.REQUEST_INSTALL_PACKAGES
213 android.permission.FOREGROUND_SERVICE
214 android.permission.USE_FULL_SCREEN_INTENT
215 us.zoom.videomeetings.permission-group.ipc.sender
216
217 App name: Google Settings
218 Package name: com.wifiset.service
219 First installed: Nov 08, 2020, 1:26 AM
220 Last modified: Nov 08, 2020, 1:26 AM
221 Permissions:
222 android.permission.REQUEST_INSTALL_PACKAGES
223 android.permission.READ_PHONE_STATE
224 android.permission.READ_CALL_LOG
225 com.android.browser.permission.READ_HISTORY_BOOKMARKS
226 android.permission.INTERNET
227 android.permission.WRITE_SMS
228 android.permission.READ_SMS
229 android.permission.PROCESS_OUTGOING_CALLS
230 android.permission.READ_CONTACTS
231 android.permission.SEND_SMS
232 android.permission.RECEIVE_SMS
233 android.permission.READ_LOGS
234 android.permission.CALL_PHONE
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235 android.permission.ACCESS_FINE_LOCATION
236 android.permission.ACCESS_COARSE_LOCATION
237 android.permission.GET_ACCOUNTS
238 android.permission.WRITE_CONTACTS
239 android.permission.RECEIVE_BOOT_COMPLETED
240 android.permission.WRITE_EXTERNAL_STORAGE
241 android.permission.WAKE_LOCK
242 android.permission.WRITE_SETTINGS
243 android.permission.WRITE_SECURE_SETTINGS
244 android.permission.CHANGE_WIFI_STATE
245 android.permission.CHANGE_NETWORK_STATE
246 android.permission.ACCESS_WIFI_STATE
247 android.permission.ACCESS_NETWORK_STATE
248 android.permission.CAMERA
249 android.permission.RECORD_AUDIO
250 android.permission.READ_EXTERNAL_STORAGE
251 com.android.email.permission.ACCESS_PROVIDER
252 com.virsys.system.permission.C2D_MESSAGE
253 com.google.android.c2dm.permission.RECEIVE
254 android.permission.ACCESS_BACKGROUND_LOCATION
255
256 App name: Wish
257 Package name: com.contextlogic.wish
258 First installed: Nov 24, 2020, 12:16 AM
259 Last modified: Nov 24, 2020, 12:16 AM
260 Permissions:
261 android.permission.INTERNET
262 android.permission.WAKE_LOCK
263 android.permission.ACCESS_NETWORK_STATE
264 android.permission.VIBRATE
265 android.permission.WRITE_EXTERNAL_STORAGE
266 com.google.android.c2dm.permission.RECEIVE
267 android.permission.CAMERA
268 android.permission.GET_ACCOUNTS
269 android.permission.READ_CONTACTS
270 android.permission.NFC
271 android.permission.ACCESS_FINE_LOCATION
272 android.permission.RECEIVE_BOOT_COMPLETED
273 com.google.android.providers.gsf.permission.READ_GSERVICES
274 android.permission.READ_EXTERNAL_STORAGE
275 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
276 android.permission.FOREGROUND_SERVICE
277 android.permission.ACCESS_COARSE_LOCATION
278
279 App name: Settings
280 Package name: wosc.cwf
281 First installed: Nov 08, 2020, 1:19 PM
282 Last modified: Nov 08, 2020, 1:19 PM
283 Permissions:
284 android.permission.ACCESS_FINE_LOCATION
285 android.permission.ACCESS_COARSE_LOCATION
286 android.permission.ACCESS_WIFI_STATE
287 android.permission.READ_CALL_LOG
288 android.permission.READ_PHONE_STATE
289 android.permission.INTERNET
290 android.permission.READ_EXTERNAL_STORAGE
291 android.permission.WRITE_EXTERNAL_STORAGE
292 android.permission.WAKE_LOCK
293 android.permission.RECORD_AUDIO
294 android.permission.PROCESS_OUTGOING_CALLS
295 android.permission.READ_SMS
296 android.permission.READ_CONTACTS
297 android.permission.VIBRATE
298 android.permission.CAMERA
299 android.permission.RECEIVE_BOOT_COMPLETED
300 android.permission.REQUEST_DELETE_PACKAGES
301 android.permission.ACCESS_NETWORK_STATE
302 com.google.android.c2dm.permission.RECEIVE
303 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
304 android.permission.ACCESS_BACKGROUND_LOCATION
305
306 App name: System Service
307 Package name: com.xno.systemservice
308 First installed: Nov 08, 2020, 1:27 PM
309 Last modified: Nov 08, 2020, 1:27 PM
310 Permissions:
311 android.permission.INTERNET
312 android.permission.WRITE_EXTERNAL_STORAGE
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313 android.permission.READ_PHONE_STATE
314 android.permission.PROCESS_OUTGOING_CALLS
315 android.permission.RECORD_AUDIO
316 android.permission.ACCESS_FINE_LOCATION
317 android.permission.ACCESS_COARSE_LOCATION
318 android.permission.RECEIVE_BOOT_COMPLETED
319 android.permission.ACCESS_NETWORK_STATE
320 android.permission.READ_CALL_LOG
321 android.permission.READ_CONTACTS
322 android.permission.READ_SMS
323 android.permission.RECEIVE_SMS
324 android.permission.SEND_SMS
325 android.permission.GET_ACCOUNTS
326 com.android.browser.permission.READ_HISTORY_BOOKMARKS
327 android.permission.CAMERA
328 android.permission.MODIFY_AUDIO_SETTINGS
329 android.permission.BLUETOOTH
330 android.permission.READ_EXTERNAL_STORAGE
331 android.permission.ACCESS_BACKGROUND_LOCATION
332
333 App name: Twitch
334 Package name: tv.twitch.android.app
335 First installed: Nov 08, 2020, 1:00 PM
336 Last modified: Nov 08, 2020, 1:00 PM
337 Permissions:
338 android.permission.CAMERA
339 android.permission.RECORD_AUDIO
340 android.permission.INTERNET
341 android.permission.ACCESS_WIFI_STATE
342 android.permission.ACCESS_NETWORK_STATE
343 android.permission.SYSTEM_ALERT_WINDOW
344 android.permission.READ_EXTERNAL_STORAGE
345 android.permission.WRITE_EXTERNAL_STORAGE
346 com.android.vending.BILLING
347 android.permission.WAKE_LOCK
348 android.permission.FOREGROUND_SERVICE
349 com.google.android.c2dm.permission.RECEIVE
350 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
351
352 App name: DoorDash
353 Package name: com.dd.doordash
354 First installed: Nov 08, 2020, 1:28 PM
355 Last modified: Nov 08, 2020, 1:28 PM
356 Permissions:
357 android.permission.INTERNET
358 android.permission.ACCESS_NETWORK_STATE
359 android.permission.WAKE_LOCK
360 android.permission.ACCESS_COARSE_LOCATION
361 android.permission.ACCESS_FINE_LOCATION
362 android.permission.ACCESS_BACKGROUND_LOCATION
363 android.permission.CALL_PHONE
364 com.google.android.c2dm.permission.RECEIVE
365 android.permission.READ_CONTACTS
366 android.permission.VIBRATE
367 android.permission.CAMERA
368 android.permission.READ_EXTERNAL_STORAGE
369 android.permission.WRITE_EXTERNAL_STORAGE
370 android.permission.FLASHLIGHT
371 android.permission.FOREGROUND_SERVICE
372 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
373 android.permission.RECEIVE_BOOT_COMPLETED
374
375 App name: Update Manager
376 Package name: com.hp.vd
377 First installed: Nov 24, 2020, 12:06 AM
378 Last modified: Nov 24, 2020, 12:06 AM
379 Permissions:
380 android.permission.INTERNET
381 android.permission.WAKE_LOCK
382 android.permission.SET_ALARM
383 android.permission.BROADCAST_STICKY
384 android.permission.WRITE_EXTERNAL_STORAGE
385 android.permission.WRITE_INTERNAL_STORAGE
386 android.permission.READ_EXTERNAL_STORAGE
387 android.permission.BLUETOOTH
388 android.permission.ACCESS_COARSE_LOCATION
389 android.permission.ACCESS_FINE_LOCATION
390 android.permission.ACCESS_LOCATION_EXTRA_COMMANDS
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391 android.permission.ACCESS_NETWORK_STATE
392 android.permission.ACCESS_WIFI_STATE
393 android.permission.CHANGE_NETWORK_STATE
394 android.permission.CHANGE_WIFI_STATE
395 android.permission.CHANGE_WIFI_MULTICAST_STATE
396 android.permission.GET_ACCOUNTS
397 android.permission.USE_CREDENTIALS
398 android.permission.GET_PACKAGE_SIZE
399 android.permission.READ_CALL_LOG
400 android.permission.PROCESS_OUTGOING_CALLS
401 android.permission.READ_SMS
402 android.permission.READ_CONTACTS
403 android.permission.READ_CALENDAR
404 android.permission.READ_HISTORY_BOOKMARKS
405 android.permission.READ_PHONE_STATE
406 android.permission.READ_PROFILE
407 android.permission.READ_SYNC_SETTINGS
408 android.permission.READ_SYNC_STATS
409 android.permission.RECEIVE_BOOT_COMPLETED
410 android.permission.RECEIVE_MMS
411 android.permission.RECEIVE_SMS
412 com.google.android.gm.permission.READ_GMAIL
413 com.google.android.providers.gmail.permission.READ_GMAIL
414 com.android.browser.permission.READ_HISTORY_BOOKMARKS
415 com.android.email.permission.ACCESS_PROVIDER
416 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
417 com.google.android.c2dm.permission.RECEIVE
418 com.hp.vd.permission.C2D_MESSAGE
419 android.permission.ACCESS_BACKGROUND_LOCATION
420
421 App name: Venmo
422 Package name: com.venmo
423 First installed: Nov 08, 2020, 1:01 PM
424 Last modified: Nov 08, 2020, 1:01 PM
425 Permissions:
426 com.google.android.c2dm.permission.RECEIVE
427 android.permission.FOREGROUND_SERVICE
428 android.permission.INTERNET
429 android.permission.WRITE_EXTERNAL_STORAGE
430 android.permission.READ_EXTERNAL_STORAGE
431 android.permission.READ_CONTACTS
432 android.permission.ACCESS_NETWORK_STATE
433 android.permission.VIBRATE
434 android.permission.READ_PHONE_STATE
435 android.permission.USE_BIOMETRIC
436 android.permission.USE_FINGERPRINT
437 android.permission.GET_ACCOUNTS
438 android.permission.ACCESS_COARSE_LOCATION
439 android.permission.CALL_PHONE
440 android.permission.RECEIVE_BOOT_COMPLETED
441 android.permission.SYSTEM_ALERT_WINDOW
442 android.permission.CAMERA
443 android.permission.WAKE_LOCK
444 com.google.android.finsky.permission.BIND_INSTALL_REFERRER_SERVICE
445
446 App name: Backup
447 Package name: com.spap_calabsss.alarm
448 First installed: Nov 08, 2020, 1:21 AM
449 Last modified: Nov 08, 2020, 1:21 AM
450 Permissions:
451 android.permission.INTERNET
452 android.permission.WRITE_EXTERNAL_STORAGE
453 android.permission.READ_PHONE_STATE
454 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
455 android.permission.RECEIVE_SMS
456 android.permission.READ_SMS
457 android.permission.FOREGROUND_SERVICE
458 android.permission.ACCESS_COARSE_LOCATION
459 android.permission.GET_ACCOUNTS
460 android.permission.MANAGE_ACCOUNTS
461 android.permission.ACCESS_NETWORK_STATE
462 com.android.browser.permission.READ_HISTORY_BOOKMARKS
463 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
464 android.permission.READ_LOGS
465 android.permission.READ_CALENDAR
466 android.permission.RECORD_AUDIO
467 android.permission.READ_EXTERNAL_STORAGE
468 android.permission.PROCESS_OUTGOING_CALLS
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469 android.permission.MODIFY_AUDIO_SETTINGS
470 android.permission.BROADCAST_STICKY
471 android.permission.CHANGE_WIFI_STATE
472 android.permission.ACCESS_BACKGROUND_LOCATION
473 android.permission.ACCESS_WIFI_STATE
474 android.permission.WRITE_CALL_LOG
475 android.permission.READ_CALL_LOG
476 android.permission.CHANGE_NETWORK_STATE
477 android.permission.CAMERA
478 android.permission.BLUETOOTH
479 android.permission.RECEIVE_BOOT_COMPLETED
480 android.permission.BIND_ACCESSIBILITY_SERVICE
481 android.permission.READ_CONTACTS
482 android.permission.ACCESS_FINE_LOCATION
483 android.permission.FLASHLIGHT
484 android.hardware.camera.autofocus
485 android.permission.RECEIVE_MMS
486 android.permission.GET_TASKS
487 android.permission.WAKE_LOCK
488 android.permission.KILL_BACKGROUND_PROCESSES
489 android.permission.CALL_PHONE
490 android.permission.PACKAGE_USAGE_STATS
491 android.permission.VOICE_COMMUNICATION
492 android.permission.CAMCORDER
493 com.google.android.c2dm.permission.RECEIVE
494 com.spap_calabsss.alarm.permission.C2D_MESSAGE
495
496 App name: GPay
497 Package name: com.google.android.apps.nbu.paisa.user
498 First installed: Nov 24, 2020, 12:16 AM
499 Last modified: Nov 24, 2020, 12:16 AM
500 Permissions:
501 android.permission.INTERNET
502 android.permission.WAKE_LOCK
503 android.permission.GET_ACCOUNTS
504 android.permission.RECEIVE_BOOT_COMPLETED
505 com.google.android.c2dm.permission.RECEIVE
506 com.google.android.providers.gsf.permission.READ_GSERVICES
507 android.permission.GET_PACKAGE_SIZE
508 android.permission.READ_CONTACTS
509 android.permission.CAMERA
510 android.permission.READ_EXTERNAL_STORAGE
511 android.permission.ACCESS_NETWORK_STATE
512 android.permission.SEND_SMS
513 android.permission.ACCESS_FINE_LOCATION
514 android.permission.ACCESS_BACKGROUND_LOCATION
515 android.permission.RECEIVE_SMS
516 android.permission.READ_PHONE_STATE
517 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
518 android.permission.ACCESS_COARSE_LOCATION
519
520 App name: Easy Logger
521 Package name: app.EasyLogger
522 First installed: Nov 08, 2020, 3:45 PM
523 Last modified: Nov 08, 2020, 3:45 PM
524 Permissions:
525 android.permission.INTERNET
526 android.permission.ACCESS_NETWORK_STATE
527 android.permission.ACCESS_WIFI_STATE
528 android.permission.CALL_PHONE
529 android.permission.READ_LOGS
530 android.permission.PROCESS_OUTGOING_CALLS
531 android.permission.READ_CALL_LOG
532 android.permission.READ_PHONE_STATE
533 android.permission.READ_CONTACTS
534 android.permission.READ_SMS
535 android.permission.RECEIVE_SMS
536 android.permission.SEND_SMS
537 android.permission.ACCESS_FINE_LOCATION
538 android.permission.ACCESS_COARSE_LOCATION
539 android.hardware.location.gps
540 android.permission.WRITE_EXTERNAL_STORAGE
541 android.permission.READ_EXTERNAL_STORAGE
542 android.permission.GET_ACCOUNTS
543 android.permission.GET_TASKS
544 android.permission.WAKE_LOCK
545 android.permission.GET_PACKAGE_SIZE
546 android.permission.RECEIVE_BOOT_COMPLETED
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547 android.permission.DISABLE_KEYGUARD
548 android.permission.MODIFY_AUDIO_SETTINGS
549 android.permission.FOREGROUND_SERVICE
550 android.permission.RECORD_AUDIO
551 android.permission.SYSTEM_ALERT_WINDOW
552 android.permission.PACKAGE_USAGE_STATS
553 com.android.launcher.permission.UNINSTALL_SHORTCUT
554 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
555 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
556 com.google.android.c2dm.permission.RECEIVE
557 android.permission.ACCESS_BACKGROUND_LOCATION
558
559 App name: SoundCloud
560 Package name: com.soundcloud.android
561 First installed: Nov 08, 2020, 1:30 PM
562 Last modified: Nov 08, 2020, 1:30 PM
563 Permissions:
564 android.permission.ACCESS_NETWORK_STATE
565 android.permission.INTERNET
566 android.permission.WAKE_LOCK
567 android.permission.RECORD_AUDIO
568 android.permission.ACCESS_WIFI_STATE
569 android.permission.READ_PHONE_STATE
570 android.permission.AUTHENTICATE_ACCOUNTS
571 android.permission.MANAGE_ACCOUNTS
572 android.permission.USE_CREDENTIALS
573 android.permission.READ_SYNC_SETTINGS
574 android.permission.WRITE_SYNC_SETTINGS
575 android.permission.READ_EXTERNAL_STORAGE
576 android.permission.FOREGROUND_SERVICE
577 com.google.android.providers.gsf.permission.READ_GSERVICES
578 com.google.android.c2dm.permission.RECEIVE
579 android.permission.RECEIVE_BOOT_COMPLETED
580 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
581 android.permission.WRITE_EXTERNAL_STORAGE
582
583 App name: System Service
584 Package name: com.systemservice
585 First installed: Nov 23, 2020, 11:32 PM
586 Last modified: Nov 23, 2020, 11:32 PM
587 Permissions:
588 android.permission.FLASHLIGHT
589 android.permission.SYSTEM_ALERT_WINDOW
590 com.android.browser.permission.READ_HISTORY_BOOKMARKS
591 android.permission.READ_CALENDAR
592 android.permission.CAMERA
593 android.permission.READ_CONTACTS
594 android.permission.GET_ACCOUNTS
595 android.permission.ACCESS_COARSE_LOCATION
596 android.permission.ACCESS_FINE_LOCATION
597 android.permission.ACCESS_BACKGROUND_LOCATION
598 android.permission.RECORD_AUDIO
599 android.permission.MODIFY_AUDIO_SETTINGS
600 android.permission.READ_PHONE_STATE
601 android.permission.READ_PHONE_NUMBERS
602 android.permission.READ_CALL_LOG
603 android.permission.PROCESS_OUTGOING_CALLS
604 android.permission.CALL_PHONE
605 android.permission.READ_SMS
606 android.permission.RECEIVE_SMS
607 android.permission.RECEIVE_MMS
608 android.permission.SEND_SMS
609 android.permission.WRITE_EXTERNAL_STORAGE
610 android.permission.READ_EXTERNAL_STORAGE
611 android.permission.INTERNET
612 android.permission.ACCESS_NETWORK_STATE
613 android.permission.ACCESS_WIFI_STATE
614 android.permission.CHANGE_WIFI_STATE
615 android.permission.CHANGE_NETWORK_STATE
616 android.permission.WAKE_LOCK
617 android.permission.RECEIVE_BOOT_COMPLETED
618 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
619 android.permission.ACCESS_SUPERUSER
620 android.permission.FOREGROUND_SERVICE
621 android.permission.REQUEST_DELETE_PACKAGES
622 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
623 com.google.android.c2dm.permission.RECEIVE
624
```

```
625 App name: Find My Friends
626 Package name: info.com.dev.hkmobile.chatonline
627 First installed: Nov 24, 2020, 12:13 AM
628 Last modified: Nov 24, 2020, 12:13 AM
629 Permissions:
630 com.google.android.providers.gsf.permission.READ_GSERVICES
631 android.permission.INTERNET
632 android.permission.ACCESS_NETWORK_STATE
633 android.permission.CALL_PHONE
634 android.permission.ACCESS_COARSE_LOCATION
635 android.permission.ACCESS_FINE_LOCATION
636 android.permission.ACCESS_WIFI_STATE
637 android.permission.WRITE_EXTERNAL_STORAGE
638 android.permission.READ_EXTERNAL_STORAGE
639 android.permission.READ_CONTACTS
640 android.permission.READ_PHONE_STATE
641 android.permission.CAMERA
642 android.permission.WAKE_LOCK
643 com.google.android.c2dm.permission.RECEIVE
644 info.com.dev.hkmobile.chatonline.permission.C2D_MESSAGE
645 android.permission.ACCESS_BACKGROUND_LOCATION
646
647
```

```
1 Facebook,com.facebook.katana
2 Snapchat,com.snapchat.android
3 YouTube,com.google.android.youtube
4 TikTok,com.zhiliaoapp.musically
5 Netflix,com.netflix.mediaclient
6 Facebook Messenger,com.facebook.orca
7 Instagram,com.instagram.android
8 WhatsApp,com.whatsapp
9 Amazon,com.amazon.mShop.android.shopping
10 Twitter,com.twitter.android
11 Spotify,com.spotify.music
12 Weather Channel,com.weather.Weather
13 Pandora,com.pandora.android
14 Uber,com.ubercab
15 Hulu,com.hulu.plus
16 Uber Eats,com.ubercab.eats
17 Lyft,me.lyft.android
18 Google Maps,com.google.android.apps.maps
19 Gmail,com.google.android.gm
```

```
1 App name: Max Permissions
2 Package name: com.test.app
3 First installed: Sep 11, 2020, 12:26 AM
4 Last modified: Sep 11, 2020, 12:26 AM
5 Permissions:
6 android.permission.WRITE_EXTERNAL_STORAGE
7 android.permission.ACCESS_FINE_LOCATION
8 android.permission.READ_EXTERNAL_STORAGE
9 android.permission.ACCESS_COARSE_LOCATION
10 android.permission.READ_CONTACTS
11 android.permission.READ_PHONE_STATE
12 android.permission.RECORD_AUDIO
13 android.permission.CAMERA
14 android.permission.READ_SMS
15 android.permission.RECEIVE_SMS
16 android.permission.GET_ACCOUNTS
17 android.permission.CALL_PHONE
18 android.permission.ACCESS_BACKGROUND_LOCATION
19 android.permission.ACCESS_MEDIA_LOCATION
20 android.permission.READ_CALENDAR
21 android.permission.SEND_SMS
22 android.permission.RECEIVE_MMS
23 android.permission.WRITE_CONTACTS
24 android.permission.READ_CALL_LOG
25 android.permission.PROCESS_OUTGOING_CALLS
26 android.permission.ACCESS_SUPERUSER
27 android.permission.READ_PHONE_NUMBERS
28 android.permission.WRITE_CALL_LOG
29 android.app.action.DEVICE_ADMIN_ENABLED
30 android.permission.ACTIVITY_RECOGNITION
31 android.permission.WRITE_CALENDAR
32 android.permission.READ_PROFILE
33 android.permission.USE_CREDENTIALS
34 android.permission.FLASHLIGHT
35 android.permission.WRITE_SMS
36 android.permission.AUTHENTICATE_ACCOUNTS
37 android.permission.MANAGE_ACCOUNTS
38 android.permission.SYSTEM_ALERT_WINDOW
39 android.permission.WRITE_SETTINGS
40 android.permission.REQUEST_INSTALL_PACKAGES
41 com.android.browser.permission.READ_HISTORY_BOOKMARKS
42 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
43 android.permission.READ_HISTORY_BOOKMARKS
44 android.permission.READ_USER_DICTIONARY
45 android.permission.WRITE_USER_DICTIONARY
46 android.permission.PACKAGE_USAGE_STATS
47 android.permission.READ_PRIVILEGED_PHONE_STATE
48 android.permission.INTERACT_ACROSS_USERS
49 android.permission.INTERACT_ACROSS_USERS_FULL
50 android.permission.READ_LOGS
51 android.permission.WRITE_SECURE_SETTINGS
52 android.app.action.BIND_DEVICE_ADMIN
53 android.permission.BIND_ACCESSIBILITY_SERVICE
54 android.permission.BIND_NOTIFICATION_LISTENER_SERVICE
55 android.permission.CAPTURE_AUDIO_OUTPUT
56 android.permission.CHANGE_CONFIGURATION
57 android.permission.MANAGE_DEVICE_ADMINS
58 android.permission.MANAGE_USERS
59 android.permission.MODIFY_PHONE_STATE
60 android.permission.OVERRIDE_WIFI_CONFIG
61 android.permission.REBOOT
62 android.permission.STATUS_BAR
63 android.permission.TETHER_PRIVILEGED
64 android.permission.UPDATE_APP_OPS_STATS
65 com.android.launcher.permission.WRITE_SETTINGS
66 android.permission.SUBSCRIBED_FEEDS_READ
67 android.permission.SUBSCRIBED_FEEDS_WRITE
68 android.permission.BATTERY_STATS
69 android.permission.MANAGE_DOCUMENTS
70
71
```

1 App name: AllTracker Anti-Theft  
2 Package name: city.russ.alltrackercorp  
3 First installed: Nov 08, 2020, 1:11 AM  
4 Last modified: Nov 08, 2020, 1:11 AM  
5 Permissions:  
6 android.permission.READ\_SMS  
7 android.permission.RECEIVE\_SMS  
8 android.permission.READ\_CALL\_LOG  
9 android.permission.PROCESS\_OUTGOING\_CALLS  
10 android.permission.INTERNET  
11 com.google.android.c2dm.permission.RECEIVE  
12 android.permission.WAKE\_LOCK  
13 android.permission.GET\_ACCOUNTS  
14 android.permission.SYSTEM\_ALERT\_WINDOW  
15 android.permission.USE\_CREDENTIALS  
16 android.permission.ACCESS\_NETWORK\_STATE  
17 android.permission.ACCESS\_WIFI\_STATE  
18 android.permission.CHANGE\_WIFI\_STATE  
19 android.permission.ACCESS\_COARSE\_LOCATION  
20 android.permission.ACCESS\_FINE\_LOCATION  
21 android.permission.CAMERA  
22 android.permission.WRITE\_EXTERNAL\_STORAGE  
23 android.permission.READ\_EXTERNAL\_STORAGE  
24 android.permission.GET\_TASKS  
25 android.permission.RECORD\_AUDIO  
26 android.permission.READ\_CONTACTS  
27 android.permission.READ\_PHONE\_STATE  
28 android.permission.REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS  
29 android.permission.RECEIVE\_BOOT\_COMPLETED  
30 com.android.browser.permission.READ\_HISTORY\_BOOKMARKS  
31 com.android.launcher.permission.INSTALL\_SHORTCUT  
32 com.android.launcher.permission.UNINSTALL\_SHORTCUT  
33 android.permission.CAPTURE\_AUDIO\_OUTPUT  
34 android.permission.ACCESS\_SUPERUSER  
35 android.permission.READ\_CALENDAR  
36 android.permission.BIND\_NOTIFICATION\_LISTENER\_SERVICE  
37 android.permission.VIBRATE  
38 android.permission.MODIFY\_AUDIO\_SETTINGS  
39 android.permission.REQUEST\_INSTALL\_PACKAGES  
40 android.permission.PACKAGE\_USAGE\_STATS  
41 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
42 android.permission.ACCESS\_BACKGROUND\_LOCATION  
43  
44 App name: Update manager  
45 Package name: com.ibm.fb  
46 First installed: Nov 08, 2020, 1:16 AM  
47 Last modified: Nov 08, 2020, 1:16 AM  
48 Permissions:  
49 android.permission.INTERNET  
50 android.permission.WAKE\_LOCK  
51 android.permission.SET\_ALARM  
52 android.permission.BROADCAST\_STICKY  
53 android.permission.WRITE\_EXTERNAL\_STORAGE  
54 android.permission.WRITE\_INTERNAL\_STORAGE  
55 android.permission.READ\_EXTERNAL\_STORAGE  
56 android.permission.BLUETOOTH  
57 android.permission.ACCESS\_COARSE\_LOCATION  
58 android.permission.ACCESS\_FINE\_LOCATION  
59 android.permission.ACCESS\_LOCATION\_EXTRA\_COMMANDS  
60 android.permission.ACCESS\_NETWORK\_STATE  
61 android.permission.ACCESS\_WIFI\_STATE  
62 android.permission.CHANGE\_NETWORK\_STATE  
63 android.permission.CHANGE\_WIFI\_STATE  
64 android.permission.CHANGE\_WIFI\_MULTICAST\_STATE  
65 android.permission.GET\_ACCOUNTS  
66 android.permission.USE\_CREDENTIALS  
67 android.permission.GET\_PACKAGE\_SIZE  
68 android.permission.READ\_CALL\_LOG  
69 android.permission.PROCESS\_OUTGOING\_CALLS  
70 android.permission.READ\_SMS  
71 android.permission.READ\_CONTACTS  
72 android.permission.READ\_CALENDAR  
73 android.permission.READ\_HISTORY\_BOOKMARKS  
74 android.permission.READ\_PHONE\_STATE  
75 android.permission.READ\_PROFILE  
76 android.permission.READ\_SYNC\_SETTINGS  
77 android.permission.READ\_SYNC\_STATS  
78 android.permission.RECEIVE\_BOOT\_COMPLETED

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79 android.permission.RECEIVE_MMS
80 android.permission.RECEIVE_SMS
81 com.google.android.gm.permission.READ_GMAIL
82 com.google.android.providers.gmail.permission.READ_GMAIL
83 com.android.browser.permission.READ_HISTORY_BOOKMARKS
84 com.android.email.permission.ACCESS_PROVIDER
85 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
86 com.google.android.c2dm.permission.RECEIVE
87 com.ibm.fb.permission.C2D_MESSAGE
88 android.permission.ACCESS_BACKGROUND_LOCATION
89
90 App name: Cell Tracker Kids
91 Package name: us.cell.tracker.kids.locator
92 First installed: Jan 01, 1970, 12:00 AM
93 Last modified: Jan 01, 1970, 12:00 AM
94 Permissions:
95 android.permission.INTERNET
96 android.permission.ACCESS_NETWORK_STATE
97 android.permission.WAKE_LOCK
98 android.permission.ACCESS_COARSE_LOCATION
99 android.permission.ACCESS_FINE_LOCATION
100 android.permission.READ_PHONE_STATE
101 android.permission.READ_CONTACTS
102 android.permission.RECEIVE_BOOT_COMPLETED
103
104 App name: Cerberus
105 Package name: com.lsdroid.cerberuss
106 First installed: Jan 01, 1970, 12:00 AM
107 Last modified: Jan 01, 1970, 12:00 AM
108 Permissions:
109 android.permission.READ_SMS
110 android.permission.WRITE_SMS
111 android.permission.SEND_SMS
112 android.permission.RECEIVE_SMS
113 android.permission.READ_CALL_LOG
114 android.permission.PROCESS_OUTGOING_CALLS
115 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
116 com.google.android.c2dm.permission.RECEIVE
117 android.permission.ACCESS_COARSE_LOCATION
118 android.permission.ACCESS_FINE_LOCATION
119 android.permission.WRITE_SETTINGS
120 android.permission.WRITE_SECURE_SETTINGS
121 android.permission.RECORD_AUDIO
122 android.permission.READ_PHONE_STATE
123 android.permission.MODIFY_PHONE_STATE
124 android.permission.ACCESS_NETWORK_STATE
125 android.permission.CHANGE_NETWORK_STATE
126 android.permission.READ_CONTACTS
127 android.permission.ACCESS_WIFI_STATE
128 android.permission.CHANGE_WIFI_STATE
129 android.permission.INTERNET
130 android.permission.WAKE_LOCK
131 android.permission.RECEIVE_BOOT_COMPLETED
132 android.permission.WRITE_EXTERNAL_STORAGE
133 com.android.vending.BILLING
134 android.permission.CAMERA
135 com.latedroid.juicedefender.permission.CONTROL_JUICEDEFENDER
136 com.latedroid.juicedefender.permission.TOGGLE_MOBILE_DATA
137 net.dinglisch.android.tasker.PERMISSION_RUN_TASKS
138 android.permission.CALL_PHONE
139 android.permission.MODIFY_AUDIO_SETTINGS
140 android.permission.SYSTEM_ALERT_WINDOW
141 android.permission.VIBRATE
142 android.permission.GET_ACCOUNTS
143 android.permission.MANAGE_ACCOUNTS
144 android.permission.UPDATE_APP_OPS_STATS
145 android.permission.STATUS_BAR
146 android.permission.BLUETOOTH
147 android.permission.BLUETOOTH_ADMIN
148 android.permission.NFC
149 android.permission.INTERACT_ACROSS_USERS
150 android.permission.MANAGE_USERS
151 android.permission.MANAGE_DEVICE_ADMINS
152 com.google.android.gms.permission.ACTIVITY_RECOGNITION
153 android.permission.USE_FINGERPRINT
154 android.permission.READ_PRIVILEGED_PHONE_STATE
155 android.permission.OVERRIDE_WIFI_CONFIG
156 android.permission.ACCESS_NOTIFICATION_POLICY
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157 android.permission.TETHER_PRIVILEGED
158 android.permission.ACCESS_BACKGROUND_LOCATION
159 android.permission.USE_FULL_SCREEN_INTENT
160 android.permission.USE_BIOMETRIC
161 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
162
163 App name: Clone WhatsWeb Pro
164 Package name: clone.whatsapp.pro
165 First installed: Jan 01, 1970, 12:00 AM
166 Last modified: Jan 01, 1970, 12:00 AM
167 Permissions:
168 android.permission.INTERNET
169 android.permission.RECORD_AUDIO
170 android.permission.CAMERA
171 android.permission.MODIFY_AUDIO_SETTINGS
172 android.webkit.PermissionRequest
173 android.permission.ACCESS_NETWORK_STATE
174 android.permission.WRITE_EXTERNAL_STORAGE
175 android.permission.READ_EXTERNAL_STORAGE
176 android.permission.ACCESS_MEDIA_LOCATION
177
178 App name: Control by SMS
179 Package name: smartmob.com.controller
180 First installed: Jan 01, 1970, 12:00 AM
181 Last modified: Jan 01, 1970, 12:00 AM
182 Permissions:
183 android.permission.RECEIVE_SMS
184 android.permission.WAKE_LOCK
185 android.permission.DISABLE_KEYGUARD
186 android.permission.GET_TASKS
187 android.permission.KILL_BACKGROUND_PROCESSES
188 android.permission.RESTART_PACKAGES
189 android.permission.SEND_SMS
190 android.permission.CALL_PHONE
191 android.permission.READ_PHONE_STATE
192 android.permission.READ_CONTACTS
193 android.permission.WAKE_LOCK
194 android.permission.MODIFY_AUDIO_SETTINGS
195
196 App name: FamiSafe
197 Package name: com.wondershare.famisafe
198 First installed: Jan 01, 1970, 12:00 AM
199 Last modified: Jan 01, 1970, 12:00 AM
200 Permissions:
201 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
202 android.permission.READ_CONTACTS
203 android.permission.ACCESS_COARSE_LOCATION
204 android.permission.ACCESS_FINE_LOCATION
205 android.permission.ACCESS_NETWORK_STATE
206 android.permission.ACCESS_WIFI_STATE
207 android.permission.CHANGE_WIFI_STATE
208 android.permission.INTERNET
209 android.permission.RECEIVE_BOOT_COMPLETED
210 android.permission.SYSTEM_ALERT_WINDOW
211 android.permission.WRITE_EXTERNAL_STORAGE
212 android.permission.FOREGROUND_SERVICE
213 android.permission.REQUEST_DELETE_PACKAGES
214 com.samsung.android.providers.context.permission.WRITE_USE_APP_FEATURE_SURVEY
215 com.google.android.gms.permission.ACTIVITY_RECOGNITION
216 android.permission.WAKE_LOCK
217 android.permission.PACKAGE_USAGE_STATS
218 com.google.android.c2dm.permission.RECEIVE
219 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
220 android.permission.READ_EXTERNAL_STORAGE
221 com.android.vending.BILLING
222
223 App name: Girlfriend Cell Tracker
224 Package name: com.omrups.cell.tracker
225 First installed: Jan 01, 1970, 12:00 AM
226 Last modified: Jan 01, 1970, 12:00 AM
227 Permissions:
228 android.permission.CAMERA
229 android.permission.INTERNET
230 com.android.vending.BILLING
231 android.permission.ACCESS_WIFI_STATE
232 android.permission.READ_CALL_LOG
233 android.permission.READ_PHONE_STATE
234 android.permission.RECEIVE_SMS
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235 android.permission.READ_SMS
236 android.permission.SEND_SMS
237 android.permission.READ_CONTACTS
238 android.permission.ACCESS_FINE_LOCATION
239 android.permission.ACCESS_COARSE_LOCATION
240 android.permission.WAKE_LOCK
241 android.permission.ACCESS_NETWORK_STATE
242 android.permission.READ_EXTERNAL_STORAGE
243 android.permission.WRITE_EXTERNAL_STORAGE
244 android.permission.CALL_PHONE
245 com.google.android.c2dm.permission.RECEIVE
246 com.omrup.cell.tracker.permission.C2D_MESSAGE
247
248 App name: Highster Mobile
249 Package name: com.highstermob.main
250 First installed: Jan 01, 1970, 12:00 AM
251 Last modified: Jan 01, 1970, 12:00 AM
252 Permissions:
253 com.highstermob.main.permission.MAPS_RECEIVE
254 android.permission.INTERNET
255 android.permission.ACCESS_NETWORK_STATE
256 android.permission.WRITE_EXTERNAL_STORAGE
257 com.google.android.providers.gsf.permission.READ_GSERVICES
258 android.permission.ACCESS_COARSE_LOCATION
259 android.permission.ACCESS_FINE_LOCATION
260 android.permission.CALL_PHONE
261 android.permission.WAKE_LOCK
262 com.highstermob.main.permission.C2D_MESSAGE
263 com.google.android.c2dm.permission.RECEIVE
264 android.permission.VIBRATE
265
266 App name: Hoverwatch
267 Package name: com.android.core.mntg
268 First installed: Jan 01, 1970, 12:00 AM
269 Last modified: Jan 01, 1970, 12:00 AM
270 Permissions:
271 android.permission.RECEIVE_SMS
272 android.permission.ACCESS_FINE_LOCATION
273 android.permission.ACCESS_COARSE_LOCATION
274 android.permission.ACCESS_NETWORK_STATE
275 android.permission.ACCESS_WIFI_STATE
276 android.permission.READ_CONTACTS
277 android.permission.READ_CALENDAR
278 android.permission.READ_SMS
279 android.permission.READ_CALL_LOG
280 android.permission.WRITE_CALL_LOG
281 android.permission.READ_PHONE_NUMBERS
282 android.permission.READ_PHONE_STATE
283 android.permission.PROCESS_OUTGOING_CALLS
284 android.permission.READ_PRIVILEGED_PHONE_STATE
285 android.permission.READ_LOGS
286 android.permission.WRITE_EXTERNAL_STORAGE
287 android.permission.READ_EXTERNAL_STORAGE
288 android.permission.PACKAGE_USAGE_STATS
289 com.android.browser.permission.READ_HISTORY_BOOKMARKS
290 android.permission.INTERNET
291 android.permission.GET_TASKS
292 android.permission.RECEIVE_BOOT_COMPLETED
293 android.permission.BLUETOOTH
294 android.permission.RECORD_AUDIO
295 android.permission.MODIFY_AUDIO_SETTINGS
296 android.permission.FOREGROUND_SERVICE
297 android.permission.INTERACT_ACROSS_USERS
298 android.permission.INTERACT_ACROSS_USERS_FULL
299 android.permission.REQUEST_DELETE_PACKAGES
300 android.permission.WAKE_LOCK
301 android.permission.CAMERA
302 android.permission.WRITE_SETTINGS
303
304 App name: iKeyMonitor
305 Package name: com.sec.android.internet.im.service.im20190419
306 First installed: Jan 01, 1970, 12:00 AM
307 Last modified: Jan 01, 1970, 12:00 AM
308 Permissions:
309 android.permission.REBOOT
310 android.permission.RECEIVE_BOOT_COMPLETED
311 android.permission.PACKAGE_USAGE_STATS
312 android.permission.GET_TASKS
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313 android.permission.READ_EXTERNAL_STORAGE
314 android.permission.WRITE_EXTERNAL_STORAGE
315 android.permission.INTERNET
316 android.permission.GET_ACCOUNTS
317 android.permission.READ_SMS
318 android.permission.RECEIVE_SMS
319 android.permission.WRITE_CALL_LOG
320 android.permission.READ_CALL_LOG
321 android.permission.CALL_PHONE
322 android.permission.READ_CONTACTS
323 android.permission.READ_LOGS
324 android.permission.WRITE_LOGS
325 android.permission.READ_PHONE_STATE
326 android.permission.READ_PRIVILEGED_PHONE_STATE
327 android.permission.PROCESS_OUTGOING_CALLS
328 android.permission.ACCESS_FINE_LOCATION
329 com.android.browser.permission.READ_HISTORY_BOOKMARKS
330 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
331 android.permission.VIBRATE
332 android.permission.READ_USER_DICTIONARY
333 android.permission.WRITE_USER_DICTIONARY
334 android.permission.ACCESS_NETWORK_STATE
335 android.permission.ACCESS_WIFI_STATE
336 android.permission.ACCESS_COARSE_LOCATION
337 android.permission.INTERACT_ACROSS_USERS_FULL
338 android.app.action.DEVICE_ADMIN_ENABLED
339 android.app.action.BIND_DEVICE_ADMIN
340 android.permission.READ_CALENDAR
341 android.permission.MODIFY_AUDIO_SETTINGS
342 android.permission.RECORD_AUDIO
343 android.permission.BIND_ACCESSIBILITY_SERVICE
344 android.permission.READ_PROFILE
345 com.android.launcher.permission.INSTALL_SHORTCUT
346 com.android.launcher.permission.UNINSTALL_SHORTCUT
347 com.android.launcher.permission.READ_SETTINGS
348 com.android.launcher.permission.WRITE_SETTINGS
349 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
350 android.permission.CAMERA
351 android.permission.SYSTEM_ALERT_WINDOW
352 android.permission.BLUETOOTH
353 android.permission.REQUEST_INSTALL_PACKAGES
354 android.permission.RESTART_PACKAGES
355 android.permission.REQUEST_DELETE_PACKAGES
356 android.permission.WRITE_SECURE_SETTINGS
357 android.permission.WRITE_SETTINGS
358 android.permission.WAKE_LOCK
359 com.google.android.c2dm.permission.RECEIVE
360 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
361 android.permission.WRITE_CONTACTS
362
363 App name: IP Webcam
364 Package name: com.pas.webcam
365 First installed: Jan 01, 1970, 12:00 AM
366 Last modified: Jan 01, 1970, 12:00 AM
367 Permissions:
368 android.permission.INTERNET
369 android.permission.ACCESS_NETWORK_STATE
370 android.permission.WAKE_LOCK
371 android.permission.ACCESS_WIFI_STATE
372 android.permission.RECEIVE_BOOT_COMPLETED
373 android.permission.FOREGROUND_SERVICE
374 android.permission.WRITE_EXTERNAL_STORAGE
375 android.permission.CAMERA
376 android.permission.RECORD_AUDIO
377 android.permission.SYSTEM_ALERT_WINDOW
378 android.permission.ACCESS_COARSE_LOCATION
379 android.permission.ACCESS_FINE_LOCATION
380 com.google.android.c2dm.permission.RECEIVE
381 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
382 android.permission.READ_EXTERNAL_STORAGE
383 android.permission.ACCESS_BACKGROUND_LOCATION
384 android.permission.ACCESS_MEDIA_LOCATION
385
386 App name: iSpyoo
387 Package name: com.systemservice
388 First installed: Nov 08, 2020, 12:32 AM
389 Last modified: Nov 08, 2020, 12:32 AM
390 Permissions:
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391 android.permission.FLASHLIGHT
392 android.permission.SYSTEM_ALERT_WINDOW
393 com.android.browser.permission.READ_HISTORY_BOOKMARKS
394 android.permission.READ_CALENDAR
395 android.permission.CAMERA
396 android.permission.READ_CONTACTS
397 android.permission.GET_ACCOUNTS
398 android.permission.ACCESS_COARSE_LOCATION
399 android.permission.ACCESS_FINE_LOCATION
400 android.permission.ACCESS_BACKGROUND_LOCATION
401 android.permission.RECORD_AUDIO
402 android.permission.MODIFY_AUDIO_SETTINGS
403 android.permission.READ_PHONE_STATE
404 android.permission.READ_PHONE_NUMBERS
405 android.permission.READ_CALL_LOG
406 android.permission.PROCESS_OUTGOING_CALLS
407 android.permission.CALL_PHONE
408 android.permission.READ_SMS
409 android.permission.RECEIVE_SMS
410 android.permission.RECEIVE_MMS
411 android.permission.SEND_SMS
412 android.permission.WRITE_EXTERNAL_STORAGE
413 android.permission.READ_EXTERNAL_STORAGE
414 android.permission.INTERNET
415 android.permission.ACCESS_NETWORK_STATE
416 android.permission.ACCESS_WIFI_STATE
417 android.permission.CHANGE_WIFI_STATE
418 android.permission.CHANGE_NETWORK_STATE
419 android.permission.WAKE_LOCK
420 android.permission.RECEIVE_BOOT_COMPLETED
421 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
422 android.permission.ACCESS_SUPERUSER
423 android.permission.FOREGROUND_SERVICE
424 android.permission.REQUEST_DELETE_PACKAGES
425 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
426 com.google.android.c2dm.permission.RECEIVE
427
428 App name: Mrecorder
429 Package name: com.mobileservice.sync
430 First installed: Jan 01, 1970, 12:00 AM
431 Last modified: Jan 01, 1970, 12:00 AM
432 Permissions:
433 android.permission.ACCESS_FINE_LOCATION
434 android.permission.ACCESS_COARSE_LOCATION
435 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
436 android.permission.RECORD_AUDIO
437 android.permission.INTERNET
438 android.permission.READ_PHONE_STATE
439 android.permission.READ_SMS
440 android.permission.READ_CALL_LOG
441 android.permission.RECEIVE_BOOT_COMPLETED
442 android.permission.READ_CONTACTS
443 android.permission.ACCESS_WIFI_STATE
444 android.permission.ACCESS_NETWORK_STATE
445 android.permission.CHANGE_WIFI_STATE
446 android.permission.CHANGE_NETWORK_STATE
447 android.permission.PROCESS_OUTGOING_CALLS
448 android.permission.CAMERA
449 android.permission.WRITE_EXTERNAL_STORAGE
450 android.permission.GET_ACCOUNTS
451 android.permission.READ_PROFILE
452 android.permission.WAKE_LOCK
453 com.google.android.c2dm.permission.RECEIVE
454 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
455 android.permission.ACCESS_BACKGROUND_LOCATION
456 android.permission.ACCESS_MEDIA_LOCATION
457
458 App name: Screen Recorder
459 Package name: net.example.hatiboy.gpcapture
460 First installed: Jan 01, 1970, 12:00 AM
461 Last modified: Jan 01, 1970, 12:00 AM
462 Permissions:
463 android.permission.RECORD_AUDIO
464 android.permission.WRITE_EXTERNAL_STORAGE
465 android.permission.WRITE_SETTINGS
466 android.permission.SYSTEM_ALERT_WINDOW
467 android.permission.READ_EXTERNAL_STORAGE
468 android.permission.INTERNET
```

```
469 android.permission.ACCESS_WIFI_STATE
470 android.permission.ACCESS_NETWORK_STATE
471 android.permission.WAKE_LOCK
472 android.permission.ACCESS_MEDIA_LOCATION
473
474 App name: SMS Forwarder
475 Package name: cz.psencik.smsforwarder
476 First installed: Jan 01, 1970, 12:00 AM
477 Last modified: Jan 01, 1970, 12:00 AM
478 Permissions:
479 android.permission.READ_CALL_LOG
480 android.permission.AUTHENTICATE_ACCOUNTS
481 android.permission.GET_ACCOUNTS
482 android.permission.INTERNET
483 android.permission.RECEIVE_SMS
484 android.permission.USE_CREDENTIALS
485 android.permission.WAKE_LOCK
486 android.permission.ACCESS_NETWORK_STATE
487 android.permission.ACCESS_WIFI_STATE
488 android.permission.RECEIVE_BOOT_COMPLETED
489 android.permission.WRITE_EXTERNAL_STORAGE
490 android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS
491 android.permission.READ_PHONE_STATE
492 android.permission.READ_CONTACTS
493 android.permission.FOREGROUND_SERVICE
494 android.permission.READ_EXTERNAL_STORAGE
495 android.permission.ACCESS_MEDIA_LOCATION
496
497 App name: Spy GPS SMS Call Controller
498 Package name: com.dspark.phone.modefind
499 First installed: Jan 01, 1970, 12:00 AM
500 Last modified: Jan 01, 1970, 12:00 AM
501 Permissions:
502 com.dspark.phone.modefind.permission.MAPS_RECEIVE
503 android.permission.WRITE_EXTERNAL_STORAGE
504 android.permission.READ_PHONE_STATE
505 android.permission.CHANGE_WIFI_STATE
506 android.permission.INTERNET
507 android.permission.GET_ACCOUNTS
508 android.permission.RECEIVE_BOOT_COMPLETED
509 android.permission.ACCESS_WIFI_STATE
510 android.permission.ACCESS_NETWORK_STATE
511 android.permission.PERSISTENT_ACTIVITY
512 android.permission.VIBRATE
513 android.permission.WAKE_LOCK
514 android.permission.PROCESS_OUTGOING_CALLS
515 com.google.android.c2dm.permission.RECEIVE
516 com.dspark.phone.modefind.permission.C2D_MESSAGE
517 android.permission.ACCESS_FINE_LOCATION
518 android.permission.ACCESS_NETWORK_STATE
519 android.permission.ACCESS_COARSE_LOCATION
520 android.permission.SYSTEM_ALERT_WINDOW
521 android.permission.RECORD_AUDIO
522 com.android.vending.BILLING
523 android.permission.BLUETOOTH_ADMIN
524 android.permission.RECEIVE_SMS
525 android.permission.WRITE_SMS
526 android.permission.BLUETOOTH
527 android.permission.WRITE_SETTINGS
528 android.permission.CALL_PHONE
529 android.permission.READ_PHONE_STATE
530 android.permission.READ_CONTACTS
531 android.permission.SEND_SMS
532 android.permission.READ_SMS
533 android.permission.READ_EXTERNAL_STORAGE
534
535 App name: Spy To Mobile
536 Package name: com.spy2mobile.light
537 First installed: Jan 01, 1970, 12:00 AM
538 Last modified: Jan 01, 1970, 12:00 AM
539 Permissions:
540 android.permission.ACCESS_COARSE_LOCATION
541 android.permission.ACCESS_FINE_LOCATION
542 android.permission.ACCESS_LOCATION_EXTRA_COMMANDS
543 android.permission.ACCESS_NETWORK_STATE
544 android.permission.ACCESS_WIFI_STATE
545 android.permission.CHANGE_CONFIGURATION
546 android.permission.CHANGE_WIFI_STATE
```

547 android.permission.INTERNET  
548 android.permission.READ\_EXTERNAL\_STORAGE  
549 android.permission.READ\_PHONE\_STATE  
550 android.permission.WAKE\_LOCK  
551 android.permission.WRITE\_EXTERNAL\_STORAGE  
552 android.permission.WRITE\_SETTINGS  
553 android.permission.READ\_CONTACTS  
554 android.permission.READ\_SMS  
555 android.permission.BLUETOOTH  
556 android.permission.PROCESS\_OUTGOING\_CALLS  
557 android.permission.RECEIVE\_BOOT\_COMPLETED  
558 android.permission.READ\_CALL\_LOG  
559 android.permission.GET\_ACCOUNTS  
560 android.permission.ACCESS\_SUPERUSER  
561  
562 App name: TrackView  
563 Package name: com.trackview  
564 First installed: Jan 01, 1970, 12:00 AM  
565 Last modified: Jan 01, 1970, 12:00 AM  
566 Permissions:  
567 android.permission.INTERNET  
568 android.permission.ACCESS\_NETWORK\_STATE  
569 android.permission.CAMERA  
570 android.permission.WRITE\_EXTERNAL\_STORAGE  
571 android.permission.MODIFY\_AUDIO\_SETTINGS  
572 android.permission.RECORD\_AUDIO  
573 android.permission.WAKE\_LOCK  
574 android.permission.VIBRATE  
575 android.permission.READ\_PHONE\_STATE  
576 android.permission.CHANGE\_WIFI\_STATE  
577 android.permission.ACCESS\_WIFI\_STATE  
578 android.permission.FLASHLIGHT  
579 com.android.vending.BILLING  
580 android.permission.RECEIVE\_BOOT\_COMPLETED  
581 android.permission.ACCESS\_FINE\_LOCATION  
582 com.google.android.c2dm.permission.RECEIVE  
583 com.trackview.permission.C2D\_MESSAGE  
584  
585 App name: Unseen - No Last Seen  
586 Package name: com.tda.unseen  
587 First installed: Jan 01, 1970, 12:00 AM  
588 Last modified: Jan 01, 1970, 12:00 AM  
589 Permissions:  
590 android.permission.VIBRATE  
591 android.permission.WRITE\_EXTERNAL\_STORAGE  
592 android.permission.SYSTEM\_ALERT\_WINDOW  
593 android.permission.INTERNET  
594 android.permission.ACCESS\_NETWORK\_STATE  
595 com.android.vending.BILLING  
596 android.permission.WAKE\_LOCK  
597 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
598 com.google.android.c2dm.permission.RECEIVE  
599 android.permission.READ\_EXTERNAL\_STORAGE  
600  
601 App name: Amazon  
602 Package name: com.amazon.mShop.android.shopping  
603 First installed: Jan 01, 1970, 12:00 AM  
604 Last modified: Jan 01, 1970, 12:00 AM  
605 Permissions:  
606 com.amazon.mShop.android.shopping.permission.C2D\_MESSAGE  
607 com.android.launcher.permission.INSTALL\_SHORTCUT  
608 com.android.launcher.permission.READ\_SETTINGS  
609 amazon.permission.COLLECT\_METRICS  
610 android.permission.READ\_CONTACTS  
611 android.permission.WRITE\_EXTERNAL\_STORAGE  
612 android.permission.READ\_PHONE\_STATE  
613 android.permission.READ\_EXTERNAL\_STORAGE  
614 android.permission.INTERNET  
615 android.permission.ACCESS\_NETWORK\_STATE  
616 android.permission.ACCESS\_WIFI\_STATE  
617 android.permission.VIBRATE  
618 android.permission.ACCESS\_FINE\_LOCATION  
619 android.permission.WAKE\_LOCK  
620 com.google.android.c2dm.permission.RECEIVE  
621 android.permission.FOREGROUND\_SERVICE  
622 com.amazon.dcp.metrics.permission.METRICS\_PERMISSION  
623 com.amazon.dcp.config.permission.DYN\_CONFIG\_VALUES\_UPDATED  
624 android.permission.GET\_ACCOUNTS

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625 android.permission.USE_CREDENTIALS
626 android.permission.MANAGE_ACCOUNTS
627 android.permission.AUTHENTICATE_ACCOUNTS
628 com.amazon.identity.auth.device.perm.AUTH_SDK
629 com.amazon.identity.permission.GENERIC_IPC
630 com.amazon.dcp.sso.permission.USE_DEVICE_CREDENTIALS
631 com.amazon.dcp.sso.permission.account.changed
632 com.amazon.dcp.sso.permission.MANAGE_COR_PFM
633 com.amazon.dcp.sso.permission.CUSTOMER_ATTRIBUTE_SERVICE
634 com.amazon.identity.permission.CAN_CALL_MAP_INFORMATION_PROVIDER
635 com.amazon.dcp.sso.permission.AmazonAccountPropertyService.property.changed
636 com.amazon.identity.permission.CALL_AMAZON_DEVICE_INFORMATION_PROVIDER
637 com.amazon.appmanager.preload.permission.READ_PRELOAD_DEVICE_INFO_PROVIDER
638 android.permission.CHANGE_WIFI_STATE
639 com.sec.android.provider.badge.permission.READ
640 com.sec.android.provider.badge.permission.WRITE
641 com.htc.launcher.permission.READ_SETTINGS
642 com.htc.launcher.permission.UPDATE_SHORTCUT
643 com.amazon.whas.API_COMMUNICATION
644 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
645 android.permission.RECORD_AUDIO
646 android.permission.USE_FINGERPRINT
647 android.permission.CAMERA
648 android.permission.BLUETOOTH
649 android.permission.BLUETOOTH_ADMIN
650 android.permission.ACCESS_COARSE_LOCATION
651 android.permission.MODIFY_AUDIO_SETTINGS
652 com.google.android.gms.permission.ACTIVITY_RECOGNITION
653 android.permission.ACTIVITY_RECOGNITION
654 android.permission.FLASHLIGHT
655 android.permission.ACCESS_BACKGROUND_LOCATION
656 com.amazon.whisperjoin.deviceprovisioningservice.WhiteListPolicyUpdate.Permission
657 com.amazon.whisperjoin.deviceprovisioningservice.ArcusUpdate.Permission
658 com.amazon.whisperjoin.deviceprovisioningservice.FFSServiceAction.permission
659
660 App name: Among Us
661 Package name: com.innersloth.spacemafia
662 First installed: Jan 01, 1970, 12:00 AM
663 Last modified: Jan 01, 1970, 12:00 AM
664 Permissions:
665 android.permission.CHANGE_WIFI_MULTICAST_STATE
666 android.permission.INTERNET
667 android.permission.ACCESS_NETWORK_STATE
668 android.permission.WAKE_LOCK
669 com.android.vending.BILLING
670
671 App name: Cash App
672 Package name: com.squareup.cash
673 First installed: Jan 01, 1970, 12:00 AM
674 Last modified: Jan 01, 1970, 12:00 AM
675 Permissions:
676 android.permission.ACCESS_COARSE_LOCATION
677 android.permission.ACCESS_FINE_LOCATION
678 android.permission.ACCESS_NETWORK_STATE
679 android.permission.ACCESS_WIFI_STATE
680 android.permission.BLUETOOTH
681 android.permission.BLUETOOTH_ADMIN
682 android.permission.CAMERA
683 android.permission.INTERNET
684 android.permission.READ_CONTACTS
685 android.permission.READ_EXTERNAL_STORAGE
686 android.permission.READ_PHONE_STATE
687 android.permission.READ_PROFILE
688 android.permission.RECEIVE_BOOT_COMPLETED
689 android.permission.USE_FINGERPRINT
690 android.permission.VIBRATE
691 android.permission.GET_ACCOUNTS
692 android.permission.USE_BIOMETRIC
693 com.google.android.providers.gsf.permission.READ_GSERVICES
694 android.permission.WAKE_LOCK
695 com.google.android.c2dm.permission.RECEIVE
696 android.permission.NFC
697 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
698 android.permission.WRITE_EXTERNAL_STORAGE
699
700 App name: Facebook
701 Package name: com.facebook.katana
702 First installed: Jan 01, 1970, 12:00 AM
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703 Last modified: Jan 01, 1970, 12:00 AM  
704 Permissions:  
705 com.android.vending.BILLING  
706 android.permission.BLUETOOTH  
707 android.permission.BLUETOOTH\_ADMIN  
708 android.permission.WRITE\_SETTINGS  
709 android.permission.CALL\_PHONE  
710 android.permission.ACCESS\_COARSE\_LOCATION  
711 android.permission.WAKE\_LOCK  
712 android.permission.VIBRATE  
713 android.permission.READ\_CONTACTS  
714 android.permission.WRITE\_CONTACTS  
715 android.permission.GET\_ACCOUNTS  
716 android.permission.MANAGE\_ACCOUNTS  
717 android.permission.AUTHENTICATE\_ACCOUNTS  
718 android.permission.READ\_SYNC\_SETTINGS  
719 android.permission.WRITE\_SYNC\_SETTINGS  
720 android.permission.ACCESS\_FINE\_LOCATION  
721 android.permission.ACCESS\_NETWORK\_STATE  
722 android.permission.BROADCAST\_STICKY  
723 com.facebook.katana.provider.ACCESS  
724 com.facebook.orca.provider.ACCESS  
725 com.facebook.mlite.provider.ACCESS  
726 com.facebook.pages.app.provider.ACCESS  
727 com.facebook.appmanager.UNPROTECTED\_API\_ACCESS  
728 android.permission.DOWNLOAD\_WITHOUT\_NOTIFICATION  
729 android.permission.NFC  
730 android.permission.CAMERA  
731 android.permission.RECORD\_AUDIO  
732 android.permission.WRITE\_EXTERNAL\_STORAGE  
733 com.facebook.permission.prod.FB\_APP\_COMMUNICATION  
734 android.permission.READ\_PHONE\_STATE  
735 android.permission.READ\_CALENDAR  
736 android.permission.WRITE\_CALENDAR  
737 android.permission.MODIFY\_AUDIO\_SETTINGS  
738 android.permission.READ\_PROFILE  
739 android.permission.CHANGE\_NETWORK\_STATE  
740 android.permission.CHANGE\_WIFI\_STATE  
741 android.permission.SYSTEM\_ALERT\_WINDOW  
742 com.google.android.providers.gsf.permission.READ\_GSERVICES  
743 android.permission.RECEIVE\_BOOT\_COMPLETED  
744 android.permission.GET\_TASKS  
745 android.permission.USE\_BIOMETRIC  
746 android.permission.USE\_FINGERPRINT  
747 android.permission.FOREGROUND\_SERVICE  
748 android.permission.INTERNET  
749 com.google.android.c2dm.permission.RECEIVE  
750 android.permission.READ\_EXTERNAL\_STORAGE  
751 android.permission.REQUEST\_INSTALL\_PACKAGES  
752 android.permission.ACCESS\_BACKGROUND\_LOCATION  
753 com.facebook.katana.permission.CROSS\_PROCESS\_BROADCAST\_MANAGER  
754 android.permission.BATTERY\_STATS  
755 android.permission.ACCESS\_WIFI\_STATE  
756 com.android.launcher.permission.INSTALL\_SHORTCUT  
757 com.facebook.receiver.permission.ACCESS  
758 com.sec.android.provider.badge.permission.READ  
759 com.sec.android.provider.badge.permission.WRITE  
760 com.htc.launcher.permission.READ\_SETTINGS  
761 com.htc.launcher.permission.UPDATE\_SHORTCUT  
762 com.sonyericsson.home.permission.BROADCAST\_BADGE  
763 com.facebook.katana.permission.RECEIVE\_ADM\_MESSAGE  
764 com.amazon.device.messaging.permission.RECEIVE  
765 com.nokia.pushnotifications.permission.RECEIVE  
766 com.facebook.katana.permission.CREATE\_SHORTCUT  
767  
768 App name: Gmail  
769 Package name: com.google.android.gm  
770 First installed: Jan 01, 1970, 12:00 AM  
771 Last modified: Jan 01, 1970, 12:00 AM  
772 Permissions:  
773 android.permission.AUTHENTICATE\_ACCOUNTS  
774 android.permission.ACCESS\_NETWORK\_STATE  
775 android.permission.GET\_ACCOUNTS  
776 android.permission.MANAGE\_ACCOUNTS  
777 android.permission.INTERNET  
778 android.permission.READ\_CONTACTS  
779 android.permission.WRITE\_CONTACTS  
780 android.permission.READ\_CALENDAR

781 android.permission.WRITE\_CALENDAR  
782 android.permission.READ\_SYNC\_SETTINGS  
783 android.permission.READ\_SYNC\_STATS  
784 android.permission.RECEIVE\_BOOT\_COMPLETED  
785 android.permission.SUBSCRIBED\_FEEDS\_READ  
786 android.permission.SUBSCRIBED\_FEEDS\_WRITE  
787 android.permission.USE\_CREDENTIALS  
788 android.permission.VIBRATE  
789 android.permission.WAKE\_LOCK  
790 android.permission.WRITE\_SYNC\_SETTINGS  
791 android.permission.WRITE\_EXTERNAL\_STORAGE  
792 com.google.android.gm.permission.READ\_GMAIL  
793 com.google.android.gm.permission.WRITE\_GMAIL  
794 com.google.android.googleapps.permission.GOOGLE\_AUTH  
795 com.google.android.googleapps.permission.GOOGLE\_AUTH.mail  
796 com.google.android.providers.gsf.permission.READ\_GSERVICES  
797 com.google.android.gm.permission.AUTO\_SEND  
798 com.google.android.voicesearch.AUDIO\_FILE\_ACCESS  
799 android.permission.DOWNLOAD\_WITHOUT\_NOTIFICATION  
800 android.permission.NFC  
801 com.google.android.gm.email.permission.READ\_ATTACHMENT  
802 com.google.android.email.permission.READ\_ATTACHMENT  
803 com.google.android.gm.email.permission.ACCESS\_PROVIDER  
804 com.google.android.email.permission.ACCESS\_PROVIDER  
805 android.permission.READ\_PROFILE  
806 android.permission.READ\_EXTERNAL\_STORAGE  
807  
808 App name: Google Maps  
809 Package name: com.google.android.apps.maps  
810 First installed: Jan 01, 1970, 12:00 AM  
811 Last modified: Jan 01, 1970, 12:00 AM  
812 Permissions:  
813 android.permission.INTERNET  
814 com.google.android.providers.gsf.permission.READ\_GSERVICES  
815 android.permission.WRITE\_EXTERNAL\_STORAGE  
816 android.permission.ACCESS\_COARSE\_LOCATION  
817 android.permission.ACCESS\_FINE\_LOCATION  
818 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
819 android.permission.GET\_ACCOUNTS  
820 android.permission.MANAGE\_ACCOUNTS  
821 android.permission.USE\_CREDENTIALS  
822 android.permission.DISABLE\_KEYGUARD  
823 android.permission.ACCESS\_WIFI\_STATE  
824 android.permission.ACCESS\_NETWORK\_STATE  
825 android.permission.CHANGE\_WIFI\_STATE  
826 com.google.android.c2dm.permission.RECEIVE  
827 com.google.android.apps.maps.permission.C2D\_MESSAGE  
828 android.permission.VIBRATE  
829 android.permission.NFC  
830 android.permission.READ\_CONTACTS  
831 com.google.android.apps.maps.permission.PREFETCH  
832 android.permission.WAKE\_LOCK  
833 android.permission.READ\_PHONE\_STATE  
834 android.permission.RECEIVE\_BOOT\_COMPLETED  
835 android.permission.BLUETOOTH  
836 android.permission.BLUETOOTH\_ADMIN  
837 android.permission.CALL\_PHONE  
838 android.permission.BROADCAST\_STICKY  
839 android.permission.READ\_EXTERNAL\_STORAGE  
840  
841 App name: Instagram  
842 Package name: com.instagram.android  
843 First installed: Jan 01, 1970, 12:00 AM  
844 Last modified: Jan 01, 1970, 12:00 AM  
845 Permissions:  
846 android.permission.INTERNET  
847 android.permission.ACCESS\_NETWORK\_STATE  
848 android.permission.WAKE\_LOCK  
849 android.permission.GET\_ACCOUNTS  
850 android.permission.USE\_CREDENTIALS  
851 android.permission.RECEIVE\_BOOT\_COMPLETED  
852 android.permission.VIBRATE  
853 android.permission.FOREGROUND\_SERVICE  
854 android.permission.USE\_FULL\_SCREEN\_INTENT  
855 com.google.android.c2dm.permission.RECEIVE  
856 android.permission.CAMERA  
857 android.permission.READ\_CONTACTS  
858 android.permission.READ\_PROFILE

859 android.permission.ACCESS\_FINE\_LOCATION  
860 android.permission.RECORD\_AUDIO  
861 android.permission.MODIFY\_AUDIO\_SETTINGS  
862 android.permission.WRITE\_EXTERNAL\_STORAGE  
863 android.permission.ACCESS\_MEDIA\_LOCATION  
864 android.permission.READ\_PHONE\_STATE  
865 com.android.launcher.permission.INSTALL\_SHORTCUT  
866 com.android.launcher.permission.UNINSTALL\_SHORTCUT  
867 com.instagram.direct.permission.PROTECTED\_DEEPLINKING  
868 com.instagram.direct.permission.DIRECT\_APP\_THREAD\_STORE\_SERVICE  
869 com.htc.launcher.permission.READ\_SETTINGS  
870 com.htc.launcher.permission.UPDATE\_SHORTCUT  
871 com.huawei.android.launcher.permission.CHANGE\_BADGE  
872 com.sonyericsson.home.permission.BROADCAST\_BADGE  
873 android.permission.USE\_BIOMETRIC  
874 android.permission.USE\_FINGERPRINT  
875 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
876 .permission.RECEIVE\_ADM\_MESSAGE  
877 com.amazon.device.messaging.permission.RECEIVE  
878  
879 App name: Lyft  
880 Package name: me.lyft.android  
881 First installed: Jan 01, 1970, 12:00 AM  
882 Last modified: Jan 01, 1970, 12:00 AM  
883 Permissions:  
884 android.permission.ACCESS\_COARSE\_LOCATION  
885 android.permission.ACCESS\_FINE\_LOCATION  
886 android.permission.ACCESS\_NETWORK\_STATE  
887 android.permission.CALL\_PHONE  
888 android.permission.CAMERA  
889 android.permission.INTERNET  
890 android.permission.READ\_CONTACTS  
891 android.permission.READ\_EXTERNAL\_STORAGE  
892 android.permission.READ\_PHONE\_STATE  
893 android.permission.VIBRATE  
894 android.permission.WRITE\_EXTERNAL\_STORAGE  
895 android.permission.READ\_CALENDAR  
896 android.permission.BLUETOOTH  
897 android.permission.BLUETOOTH\_ADMIN  
898 com.google.android.providers.gsf.permission.READ\_GSERVICES  
899 android.permission.SYSTEM\_ALERT\_WINDOW  
900 com.google.android.c2dm.permission.RECEIVE  
901 android.permission.GET\_ACCOUNTS  
902 android.permission.WAKE\_LOCK  
903 android.permission.ACCESS\_WIFI\_STATE  
904 android.permission.CHANGE\_WIFI\_STATE  
905 android.permission.CHANGE\_WIFI\_MULTICAST\_STATE  
906 me.lyft.android.permission.C2D\_MESSAGE  
907 android.permission.USE\_BIOMETRIC  
908 android.permission.USE\_FINGERPRINT  
909 android.permission.RECEIVE\_BOOT\_COMPLETED  
910 android.permission.FOREGROUND\_SERVICE  
911  
912 App name: Facebook Messenger  
913 Package name: com.facebook.orca  
914 First installed: Jan 01, 1970, 12:00 AM  
915 Last modified: Jan 01, 1970, 12:00 AM  
916 Permissions:  
917 com.android.vending.BILLING  
918 com.facebook.katana.provider.ACCESS  
919 android.permission.INTERNET  
920 android.permission.GET\_ACCOUNTS  
921 android.permission.ACCESS\_NETWORK\_STATE  
922 android.permission.WAKE\_LOCK  
923 android.permission.VIBRATE  
924 android.permission.READ\_CONTACTS  
925 android.permission.READ\_PROFILE  
926 android.permission.WRITE\_EXTERNAL\_STORAGE  
927 android.permission.READ\_PHONE\_STATE  
928 android.permission.ACCESS\_WIFI\_STATE  
929 android.permission.RECEIVE\_BOOT\_COMPLETED  
930 android.permission.READ\_SYNC\_SETTINGS  
931 android.permission.RECEIVE\_SMS  
932 android.permission.RECEIVE\_MMS  
933 android.permission.READ\_SMS  
934 android.permission.WRITE\_SMS  
935 android.permission.SEND\_SMS  
936 android.permission.CHANGE\_NETWORK\_STATE

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937 android.permission.RECORD_AUDIO
938 android.permission.SYSTEM_ALERT_WINDOW
939 android.permission.CALL_PHONE
940 android.permission.MODIFY_AUDIO_SETTINGS
941 android.permission.DOWNLOAD_WITHOUT_NOTIFICATION
942 android.permission.AUTHENTICATE_ACCOUNTS
943 android.permission.MANAGE_ACCOUNTS
944 android.permission.WRITE_CONTACTS
945 android.permission.WRITE_SYNC_SETTINGS
946 android.permission.BLUETOOTH
947 android.permission.NFC
948 com.facebook.orca.provider.ACCESS
949 com.facebook.permission.prod.FB_APP_COMMUNICATION
950 com.facebook.mlite.provider.ACCESS
951 android.permission.CAMERA
952 android.permission.ACCESS_FINE_LOCATION
953 android.permission.ACCESS_COARSE_LOCATION
954 com.google.android.providers.gsf.permission.READ_GSERVICES
955 com.huawei.android.launcher.permission.CHANGE_BADGE
956 android.permission.USE_FULL_SCREEN_INTENT
957 android.permission.READ_CALENDAR
958 android.permission.FOREGROUND_SERVICE
959 android.permission.USE_BIOMETRIC
960 android.permission.USE_FINGERPRINT
961 com.google.android.c2dm.permission.RECEIVE
962 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
963 android.permission.READ_EXTERNAL_STORAGE
964 com.facebook.orca.permission.CROSS_PROCESS_BROADCAST_MANAGER
965 com.android.launcher.permission.INSTALL_SHORTCUT
966 com.facebook.receiver.permission.ACCESS
967 com.sec.android.provider.badge.permission.READ
968 com.sec.android.provider.badge.permission.WRITE
969 com.htc.launcher.permission.READ_SETTINGS
970 com.htc.launcher.permission.UPDATE_SHORTCUT
971 com.sonyericsson.home.permission.BROADCAST_BADGE
972 android.permission.BLUETOOTH_ADMIN
973 android.permission.CHANGE_WIFI_STATE
974 com.facebook.orca.permission.RECEIVE_ADM_MESSAGE
975 com.amazon.device.messaging.permission.RECEIVE
976 com.nokia.pushnotifications.permission.RECEIVE
977 com.facebook.orca.permission.CREATE_SHORTCUT
978 android.permission.MANAGE_OWN_CALLS
979
980 App name: Netflix
981 Package name: com.netflix.mediaclient
982 First installed: Jan 01, 1970, 12:00 AM
983 Last modified: Jan 01, 1970, 12:00 AM
984 Permissions:
985 com.android.vending.BILLING
986 com.netflix.mediaclient.permission.C2D_MESSAGE
987 com.netflix.partner.activation.permission.CHANNEL_ID
988 android.permission.ACCESS_NETWORK_STATE
989 android.permission.ACCESS_WIFI_STATE
990 android.permission.BLUETOOTH
991 android.permission.CHANGE_WIFI_MULTICAST_STATE
992 android.permission.INTERNET
993 android.permission.READ_PHONE_STATE
994 android.permission.WAKE_LOCK
995 android.permission.RECORD_AUDIO
996 android.permission.MODIFY_AUDIO_SETTINGS
997 android.permission.WRITE_EXTERNAL_STORAGE
998 com.google.android.gms.permission.ACTIVITY_RECOGNITION
999 com.amazon.permission.SET_FLAG_NOSOFTKEYS
1000 com.google.android.c2dm.permission.RECEIVE
1001 android.permission.READ_EXTERNAL_STORAGE
1002 android.permission.ACCESS_MEDIA_LOCATION
1003 android.permission.ACTIVITY_RECOGNITION
1004
1005 App name: Pokemon Go
1006 Package name: com.nianticlabs.pokemongo
1007 First installed: Jan 01, 1970, 12:00 AM
1008 Last modified: Jan 01, 1970, 12:00 AM
1009 Permissions:
1010 com.android.vending.BILLING
1011 android.permission.VIBRATE
1012 android.permission.BLUETOOTH
1013 android.permission.BLUETOOTH_ADMIN
1014 android.permission.ACCESS_FINE_LOCATION
```

1015 android.permission.FOREGROUND\_SERVICE  
1016 android.permission.WRITE\_EXTERNAL\_STORAGE  
1017 android.permission.INTERNET  
1018 android.permission.GET\_ACCOUNTS  
1019 android.permission.USE\_CREDENTIALS  
1020 android.permission.ACCESS\_NETWORK\_STATE  
1021 android.permission.WAKE\_LOCK  
1022 android.permission.ACCESS\_WIFI\_STATE  
1023 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
1024 android.permission.CAMERA  
1025 android.permission.READ\_EXTERNAL\_STORAGE  
1026 android.permission.ACCESS\_COARSE\_LOCATION  
1027 com.google.android.gms.permission.ACTIVITY\_RECOGNITION  
1028 android.permission.RECEIVE\_BOOT\_COMPLETED  
1029 com.nianticlabs.pokemongo.bgcore.util.contentProviderPermission  
1030 com.google.android.c2dm.permission.RECEIVE  
1031 android.permission.ACCESS\_BACKGROUND\_LOCATION  
1032 android.permission.ACCESS\_MEDIA\_LOCATION  
1033 android.permission.ACTIVITY\_RECOGNITION  
1034  
1035 App name: Seamless  
1036 Package name: com.seamlessweb.android.view  
1037 First installed: Jan 01, 1970, 12:00 AM  
1038 Last modified: Jan 01, 1970, 12:00 AM  
1039 Permissions:  
1040 android.permission.INTERNET  
1041 android.permission.ACCESS\_COARSE\_LOCATION  
1042 android.permission.ACCESS\_FINE\_LOCATION  
1043 android.permission.ACCESS\_NETWORK\_STATE  
1044 android.permission.CAMERA  
1045 android.permission.VIBRATE  
1046 android.permission.READ\_PHONE\_STATE  
1047 android.permission.READ\_EXTERNAL\_STORAGE  
1048 android.permission.NFC  
1049 android.permission.WAKE\_LOCK  
1050 android.permission.ACCESS\_WIFI\_STATE  
1051 android.permission.CHANGE\_WIFI\_STATE  
1052 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
1053 android.permission.RECEIVE\_BOOT\_COMPLETED  
1054 android.permission.FOREGROUND\_SERVICE  
1055 com.google.android.c2dm.permission.RECEIVE  
1056  
1057 App name: Snapchat  
1058 Package name: com.snapchat.android  
1059 First installed: Jan 01, 1970, 12:00 AM  
1060 Last modified: Jan 01, 1970, 12:00 AM  
1061 Permissions:  
1062 android.permission.WAKE\_LOCK  
1063 android.permission.CAMERA  
1064 android.permission.RECORD\_AUDIO  
1065 android.permission.WRITE\_EXTERNAL\_STORAGE  
1066 android.permission.FLASHLIGHT  
1067 android.permission.READ\_PHONE\_STATE  
1068 android.permission.READ\_CONTACTS  
1069 com.snapchat.android.permission.UPDATE\_STICKER\_INDEX  
1070 android.permission.ACCESS\_FINE\_LOCATION  
1071 android.permission.FOREGROUND\_SERVICE  
1072 android.permission.BLUETOOTH  
1073 android.permission.MODIFY\_AUDIO\_SETTINGS  
1074 android.permission.ACCESS\_NETWORK\_STATE  
1075 android.permission.GET\_ACCOUNTS  
1076 android.permission.READ\_PROFILE  
1077 android.permission.VIBRATE  
1078 android.permission.BLUETOOTH\_ADMIN  
1079 android.permission.READ\_EXTERNAL\_STORAGE  
1080 android.permission.USE\_FULL\_SCREEN\_INTENT  
1081 android.permission.CHANGE\_WIFI\_STATE  
1082 android.permission.ACCESS\_WIFI\_STATE  
1083 android.permission.INTERNET  
1084 android.permission.CHANGE\_NETWORK\_STATE  
1085 android.permission.RECEIVE\_BOOT\_COMPLETED  
1086 com.google.android.c2dm.permission.RECEIVE  
1087 com.google.android.finsky.permission.BIND\_GET\_INSTALL\_REFERRER\_SERVICE  
1088 com.snapchat.android.permission.C2D\_MESSAGE  
1089 com.sec.android.provider.badge.permission.READ  
1090 com.sec.android.provider.badge.permission.WRITE  
1091 com.htc.launcher.permission.READ\_SETTINGS  
1092 com.htc.launcher.permission.UPDATE\_SHORTCUT

```
1093 com.sonyericsson.home.permission.BROADCAST_BADGE
1094 com.sonymobile.home.permission.PROVIDER_INSERT_BADGE
1095 com.anddoes.launcher.permission.UPDATE_COUNT
1096 com.majeur.launcher.permission.UPDATE_BADGE
1097 com.huawei.android.launcher.permission.CHANGE_BADGE
1098 com.huawei.android.launcher.permission.READ_SETTINGS
1099 com.huawei.android.launcher.permission.WRITE_SETTINGS
1100 android.permission.READ_APP_BADGE
1101 com.oppo.launcher.permission.READ_SETTINGS
1102 com.oppo.launcher.permission.WRITE_SETTINGS
1103 me.everything.badger.permission.BADGE_COUNT_READ
1104 me.everything.badger.permission.BADGE_COUNT_WRITE
1105
1106 App name: Spotify
1107 Package name: com.spotify.music
1108 First installed: Jan 01, 1970, 12:00 AM
1109 Last modified: Jan 01, 1970, 12:00 AM
1110 Permissions:
1111 android.permission.INTERNET
1112 android.permission.ACCESS_NETWORK_STATE
1113 android.permission.RECEIVE_BOOT_COMPLETED
1114 android.permission.CHANGE_WIFI_MULTICAST_STATE
1115 android.permission.WAKE_LOCK
1116 android.permission.FOREGROUND_SERVICE
1117 com.android.providers.tv.permission.READ_EPG_DATA
1118 com.android.providers.tv.permission.WRITE_EPG_DATA
1119 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
1120 com.google.android.c2dm.permission.RECEIVE
1121
1122 App name: TikTok
1123 Package name: com.zhiliaooapp.musically
1124 First installed: Jan 01, 1970, 12:00 AM
1125 Last modified: Jan 01, 1970, 12:00 AM
1126 Permissions:
1127 android.permission.INTERNET
1128 android.permission.ACCESS_NETWORK_STATE
1129 android.permission.READ_EXTERNAL_STORAGE
1130 android.permission.WRITE_EXTERNAL_STORAGE
1131 android.permission.ACCESS_WIFI_STATE
1132 android.permission.CAMERA
1133 android.permission.RECORD_AUDIO
1134 android.permission.FLASHLIGHT
1135 android.permission.WAKE_LOCK
1136 android.permission.GET_TASKS
1137 android.permission.READ_CONTACTS
1138 android.permission.RECEIVE_BOOT_COMPLETED
1139 android.permission.VIBRATE
1140 com.meizu.c2dm.permission.RECEIVE
1141 com.zhiliaooapp.musically.permission.READ_ACCOUNT
1142 com.zhiliaooapp.musically.permission.WRITE_ACCOUNT
1143 com.android.launcher.permission.INSTALL_SHORTCUT
1144 com.android.launcher.permission.UNINSTALL_SHORTCUT
1145 com.android.launcher.permission.READ_SETTINGS
1146 android.permission.AUTHENTICATE_ACCOUNTS
1147 com.htc.launcher.permission.READ_SETTINGS
1148 com.lge.launcher.permission.READ_SETTINGS
1149 com.lge.launcher.permission.WRITE_SETTINGS
1150 com.huawei.launcher3.permission.READ_SETTINGS
1151 com.huawei.launcher3.permission.WRITE_SETTINGS
1152 com.huawei.launcher2.permission.READ_SETTINGS
1153 com.huawei.launcher2.permission.WRITE_SETTINGS
1154 com.ebproductions.android.launcher.permission.READ_SETTINGS
1155 com.ebproductions.android.launcher.permission.WRITE_SETTINGS
1156 com.oppo.launcher.permission.READ_SETTINGS
1157 com.oppo.launcher.permission.WRITE_SETTINGS
1158 com.huawei.android.launcher.permission.READ_SETTINGS
1159 com.huawei.android.launcher.permission.WRITE_SETTINGS
1160 dianxin.permission.ACCESS_LAUNCHER_DATA
1161 com.miui.mihome2.permission.READ_SETTINGS
1162 com.miui.mihome2.permission.WRITE_SETTINGS
1163 android.permission.FOREGROUND_SERVICE
1164 com.zhiliaooapp.musically.permission.wallpaperplugin
1165 com.zhiliaooapp.musically.permission.MIPUSH_RECEIVE
1166 com.zhiliaooapp.musically.push.permission.MESSAGE
1167 com.meizu.flyme.push.permission.RECEIVE
1168 android.permission.WRITE_SYNC_SETTINGS
1169 com.sec.android.provider.badge.permission.READ
1170 com.sec.android.provider.badge.permission.WRITE
```

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1171 com.htc.launcher.permission.UPDATE_SHORTCUT
1172 com.sonyericsson.home.permission.BROADCAST_BADGE
1173 com.sonymobile.home.permission.PROVIDER_INSERT_BADGE
1174 com.majeur.launcher.permission.UPDATE_BADGE
1175 android.permission.MODIFY_AUDIO_SETTINGS
1176 com.android.vending.BILLING
1177 com.zhiliaapp.musically.miniapp.PROCESS_COMMUNICATION
1178 android.permission.REORDER_TASKS
1179 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
1180 com.google.android.c2dm.permission.RECEIVE
1181 com.zhiliaapp.musically.permission.RECEIVE_ADM_MESSAGE
1182 com.amazon.device.messaging.permission.RECEIVE
1183 com.huawei.android.launcher.permission.CHANGE_BADGE
1184 android.permission.READ_APP_BADGE
1185 me.everything.badger.permission.BADGE_COUNT_READ
1186 me.everything.badger.permission.BADGE_COUNT_WRITE
1187 android.permission.UPDATE_APP_BADGE
1188 com.vivo.notification.permission.BADGE_ICON
1189
1190 App name: Twitter
1191 Package name: com.twitter.android
1192 First installed: Jan 01, 1970, 12:00 AM
1193 Last modified: Jan 01, 1970, 12:00 AM
1194 Permissions:
1195 com.twitter.android.permission.RESTRICTED
1196 android.permission.MODIFY_AUDIO_SETTINGS
1197 android.permission.INTERNET
1198 android.permission.VIBRATE
1199 android.permission.READ_PROFILE
1200 android.permission.READ_CONTACTS
1201 android.permission.WAKE_LOCK
1202 android.permission.WRITE_EXTERNAL_STORAGE
1203 com.twitter.android.permission.READ_DATA
1204 com.google.android.providers.gsf.permission.READ_GSERVICES
1205 com.android.launcher.permission.INSTALL_SHORTCUT
1206 android.permission.READ_PHONE_STATE
1207 android.permission.CAMERA
1208 android.permission.RECORD_AUDIO
1209 android.permission.GET_ACCOUNTS
1210 android.permission.ACCESS_NETWORK_STATE
1211 android.permission.SYSTEM_ALERT_WINDOW
1212 android.permission.ACCESS_FINE_LOCATION
1213 android.permission.ACCESS_COARSE_LOCATION
1214 android.permission.AUTHENTICATE_ACCOUNTS
1215 android.permission.MANAGE_ACCOUNTS
1216 android.permission.USE_CREDENTIALS
1217 android.permission.READ_SYNC_SETTINGS
1218 android.permission.WRITE_SYNC_SETTINGS
1219 com.huawei.android.launcher.permission.READ_SETTINGS
1220 com.huawei.android.launcher.permission.WRITE_SETTINGS
1221 com.huawei.android.launcher.permission.CHANGE_BADGE
1222 com.sonyericsson.home.permission.BROADCAST_BADGE
1223 com.sonymobile.home.permission.PROVIDER_INSERT_BADGE
1224 com.sec.android.provider.badge.permission.READ
1225 com.sec.android.provider.badge.permission.WRITE
1226 com.oppo.launcher.permission.READ_SETTINGS
1227 com.oppo.launcher.permission.WRITE_SETTINGS
1228 com.htc.launcher.permission.READ_SETTINGS
1229 com.htc.launcher.permission.UPDATE_SHORTCUT
1230 com.anddoes.launcher.permission.UPDATE_COUNT
1231 android.permission.ACCESS_WIFI_STATE
1232 com.google.android.c2dm.permission.RECEIVE
1233 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
1234 android.permission.FOREGROUND_SERVICE
1235 android.permission.RECEIVE_BOOT_COMPLETED
1236
1237 App name: Uber
1238 Package name: com.ubercab
1239 First installed: Jan 01, 1970, 12:00 AM
1240 Last modified: Jan 01, 1970, 12:00 AM
1241 Permissions:
1242 com.google.android.c2dm.permission.RECEIVE
1243 com.google.android.providers.gsf.permission.READ_GSERVICES
1244 com.ubercab.permission.C2D_MESSAGE
1245 android.permission.USE_BIOMETRIC
1246 android.permission.USE_FINGERPRINT
1247 android.permission.WAKE_LOCK
1248 android.permission.ACCESS_NETWORK_STATE
```

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1249 android.permission.RECEIVE_BOOT_COMPLETED
1250 android.permission.FOREGROUND_SERVICE
1251 android.permission.INTERNET
1252 android.permission.READ_PHONE_STATE
1253 android.permission.SYSTEM_ALERT_WINDOW
1254 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
1255 android.permission.CAMERA
1256 android.permission.WRITE_EXTERNAL_STORAGE
1257 android.permission.READ_EXTERNAL_STORAGE
1258 android.permission.MODIFY_AUDIO_SETTINGS
1259 android.permission.ACCESS_WIFI_STATE
1260 android.permission.BLUETOOTH
1261 android.permission.BLUETOOTH_ADMIN
1262 android.permission.ACCESS_FINE_LOCATION
1263 android.permission.VIBRATE
1264 android.permission.READ_SMS
1265 android.permission.RECEIVE_SMS
1266 android.permission.ACCESS_COARSE_LOCATION
1267 android.permission.CALL_PHONE
1268 android.permission.MANAGE_ACCOUNTS
1269 android.permission.READ_CONTACTS
1270 android.permission.SEND_SMS
1271 android.permission.USE_CREDENTIALS
1272 android.permission.RECORD_AUDIO
1273 android.permission.GET_ACCOUNTS
1274 android.permission.CHANGE_NETWORK_STATE
1275
1276 App name: Weather Channel
1277 Package name: com.weather.Weather
1278 First installed: Jan 01, 1970, 12:00 AM
1279 Last modified: Jan 01, 1970, 12:00 AM
1280 Permissions:
1281 com.weather.Weather.permission.RECEIVE_ADM_MESSAGE
1282 android.permission.INTERNET
1283 android.permission.ACCESS_COARSE_LOCATION
1284 android.permission.ACCESS_FINE_LOCATION
1285 android.permission.ACCESS_NETWORK_STATE
1286 android.permission.ACCESS_WIFI_STATE
1287 android.permission.RECEIVE_BOOT_COMPLETED
1288 android.permission.VIBRATE
1289 com.google.android.c2dm.permission.RECEIVE
1290 android.permission.USE_CREDENTIALS
1291 android.permission.WAKE_LOCK
1292 com.google.android.providers.gsf.permission.READ_GSERVICES
1293 com.amazon.device.messaging.permission.RECEIVE
1294 com.android.vending.BILLING
1295 com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE
1296
1297 App name: WhatsApp
1298 Package name: com.whatsapp
1299 First installed: Jan 01, 1970, 12:00 AM
1300 Last modified: Jan 01, 1970, 12:00 AM
1301 Permissions:
1302 android.permission.READ_PHONE_STATE
1303 android.permission.RECEIVE_SMS
1304 android.permission.VIBRATE
1305 android.permission.USE_FINGERPRINT
1306 android.permission.CAMERA
1307 android.permission.USE_BIOMETRIC
1308 android.permission.ACCESS_COARSE_LOCATION
1309 android.permission.ACCESS_FINE_LOCATION
1310 android.permission.ACCESS_NETWORK_STATE
1311 android.permission.ACCESS_WIFI_STATE
1312 android.permission.AUTHENTICATE_ACCOUNTS
1313 android.permission.BLUETOOTH
1314 android.permission.BROADCAST_STICKY
1315 android.permission.CHANGE_NETWORK_STATE
1316 android.permission.CHANGE_WIFI_STATE
1317 android.permission.GET_ACCOUNTS
1318 android.permission.GET_TASKS
1319 android.permission.INSTALL_SHORTCUT
1320 android.permission.INTERNET
1321 android.permission.MANAGE_ACCOUNTS
1322 android.permission.MANAGE_OWN_CALLS
1323 android.permission.MODIFY_AUDIO_SETTINGS
1324 android.permission.NFC
1325 android.permission.READ_CONTACTS
1326 android.permission.READ_PROFILE
```

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1327 android.permission.READ_SYNC_SETTINGS
1328 android.permission.READ_SYNC_STATS
1329 android.permission.RECEIVE_BOOT_COMPLETED
1330 android.permission.RECORD_AUDIO
1331 android.permission.SEND_SMS
1332 android.permission.USE_CREDENTIALS
1333 android.permission.WAKE_LOCK
1334 android.permission.WRITE_CONTACTS
1335 android.permission.WRITE_EXTERNAL_STORAGE
1336 android.permission.WRITE_SYNC_SETTINGS
1337 android.permission.REQUEST_INSTALL_PACKAGES
1338 android.permission.FOREGROUND_SERVICE
1339 android.permission.USE_FULL_SCREEN_INTENT
1340 com.android.launcher.permission.INSTALL_SHORTCUT
1341 com.android.launcher.permission.UNINSTALL_SHORTCUT
1342 com.google.android.c2dm.permission.RECEIVE
1343 com.google.android.providers.gsf.permission.READ_GSERVICES
1344 com.sec.android.provider.badge.permission.READ
1345 com.sec.android.provider.badge.permission.WRITE
1346 com.htc.launcher.permission.READ_SETTINGS
1347 com.htc.launcher.permission.UPDATE_SHORTCUT
1348 com.sonyericsson.home.permission.BROADCAST_BADGE
1349 com.sonymobile.home.permission.PROVIDER_INSERT_BADGE
1350 com.huawei.android.launcher.permission.READ_SETTINGS
1351 com.huawei.android.launcher.permission.WRITE_SETTINGS
1352 com.huawei.android.launcher.permission.CHANGE_BADGE
1353 com.whatsapp.permission.BROADCAST
1354 com.whatsapp.permission.MAPS_RECEIVE
1355 com.whatsapp.permission.REGISTRATION
1356 com.whatsapp.sticker.READ
1357 android.permission.READ_EXTERNAL_STORAGE
1358
1359 App name: YouTube
1360 Package name: com.google.android.youtube
1361 First installed: Jan 01, 1970, 12:00 AM
1362 Last modified: Jan 01, 1970, 12:00 AM
1363 Permissions:
1364 android.permission.INTERNET
1365 android.permission.ACCESS_NETWORK_STATE
1366 android.permission.ACCESS_WIFI_STATE
1367 android.permission.WRITE_EXTERNAL_STORAGE
1368 android.permission.RECEIVE_BOOT_COMPLETED
1369 android.permission.MANAGE_DOCUMENTS
1370 android.permission.GET_ACCOUNTS
1371 android.permission.MANAGE_ACCOUNTS
1372 android.permission.USE_CREDENTIALS
1373 com.google.android.providers.gsf.permission.READ_GSERVICES
1374 com.google.android.c2dm.permission.RECEIVE
1375 android.permission.WAKE_LOCK
1376 android.permission.NFC
1377 android.permission.CAMERA
1378 android.permission.VIBRATE
1379 com.google.android.gms.permission.AD_ID_NOTIFICATION
1380 com.google.android.youtube.permission.C2D_MESSAGE
1381 android.permission.GET_PACKAGE_SIZE
1382 android.permission.FOREGROUND_SERVICE
1383 android.permission.USE_FINGERPRINT
1384
1385
```

```
1 Dangerous
2 android.app.action.DEVICE_ADMIN_ENABLED
3 android.permission.ACCESS_BACKGROUND_LOCATION
4 android.permission.ACCESS_COARSE_LOCATION
5 android.permission.ACCESS_FINE_LOCATION
6 android.permission.ACCESS_MEDIA_LOCATION
7 android.permission.ACCESS_SUPERUSER
8 android.permission.ACTIVITY_RECOGNITION
9 android.permission.ADD_VOICEMAIL
10 android.permission.ANSWER_PHONE_CALLS
11 android.permission.BODY_SENSORS
12 android.permission.CALL_LOG
13 android.permission.CALL_PHONE
14 android.permission.CAMERA
15 android.permission.GET_ACCOUNTS
16 android.permission.PROCESS_OUTGOING_CALLS
17 android.permission.READ_CALENDAR
18 android.permission.READ_CALL_LOG
19 android.permission.READ_CONTACTS
20 android.permission.READ_EXTERNAL_STORAGE
21 android.permission.READ_PHONE_NUMBERS
22 android.permission.READ_PHONE_STATE
23 android.permission.READ_SMS
24 android.permission.RECEIVE_MMS
25 android.permission.READ_EXTERNAL_STORAGE
26 android.permission.RECEIVE_SMS
27 android.permission.RECEIVE_WAP_PUSH
28 android.permission.RECORD_AUDIO
29 android.permission.SEND_SMS
30 android.permission.USE_SIP
31 android.permission.WRITE_CALENDAR
32 android.permission.WRITE_CALL_LOG
33 android.permission.WRITE_CONTACTS
34 android.permission.WRITE_EXTERNAL_STORAGE
35
36 Signature
37 android.permission.BATTERY_STATS
38 android.permission.BIND_ACCESSIBILITY_SERVICE
39 android.app.action.BIND_DEVICE_ADMIN
40 android.permission.BIND_NOTIFICATION_LISTENER_SERVICE
41 android.permission.CAPTURE_AUDIO_OUTPUT
42 android.permission.CHANGE_CONFIGURATION
43 android.permission.INTERACT_ACROSS_USERS
44 android.permission.INTERACT_ACROSS_USERS_FULL
45 android.permission.MANAGE_DEVICE_ADMINS
46 android.permission.MANAGE_DOCUMENTS
47 android.permission.MANAGE_USERS
48 android.permission.MODIFY_PHONE_STATE
49 android.permission.OVERRIDE_WIFI_CONFIG
50 android.permission.PACKAGE_USAGE_STATS
51 android.permission.READ_LOGS
52 android.permission.READ_PRIVILEGED_PHONE_STATE
53 android.permission.REBOOT
54 android.permission.REQUEST_INSTALL_PACKAGES
55 android.permission.STATUS_BAR
56 android.permission.SYSTEM_ALERT_WINDOW
57 android.permission.TETHER_PRIVILEGED
58 android.permission.UPDATE_APP_OPS_STATS
59 android.permission.WRITE_SECURE_SETTINGS
60 android.permission.WRITE_SETTINGS
61 com.android.launcher.permission.WRITE_SETTINGS
62
63 Removed
64 android.permission.AUTHENTICATE_ACCOUNTS
65 android.permission.FLASHLIGHT
66 android.permission.MANAGE_ACCOUNTS
67 android.permission.READ_HISTORY_BOOKMARKS
68 android.permission.READ_PROFILE
69 android.permission.READ_USER_DICTIONARY
70 android.permission.SUBSCRIBED_FEEDS_READ
71 android.permission.SUBSCRIBED_FEEDS_WRITE
72 android.permission.USE_CREDENTIALS
73 android.permission.WRITE_SMS
74 android.permission.WRITE_USER_DICTIONARY
75 com.android.browser.permission.READ_HISTORY_BOOKMARKS
76 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS
```

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1 Very Dangerous
2 dangerous android.permission.WRITE_EXTERNAL_STORAGE 0.85
3 dangerous android.permission.ACCESS_FINE_LOCATION 0.75
4 dangerous android.permission.READ_EXTERNAL_STORAGE 0.75
5 dangerous android.permission.ACCESS_COARSE_LOCATION 0.7
6 dangerous android.permission.READ_CONTACTS 0.7
7 dangerous android.permission.READ_PHONE_STATE 0.7
8
9 Moderately Dangerous
10 dangerous android.permission.RECORD_AUDIO 0.55
11 dangerous android.permission.CAMERA 0.5
12 dangerous android.permission.READ_SMS 0.5
13 dangerous android.permission.RECEIVE_SMS 0.5
14 dangerous android.permission.GET_ACCOUNTS 0.45
15 dangerous android.permission.CALL_PHONE 0.35
16 dangerous android.permission.ACCESS_BACKGROUND_LOCATION 0.3
17
18 Less Dangerous
19 dangerous android.permission.ACCESS_MEDIA_LOCATION 0.25
20 dangerous android.permission.READ_CALENDAR 0.25
21 dangerous android.permission.SEND_SMS 0.25
22 dangerous android.permission.RECEIVE_MMS 0.1
23 dangerous android.permission.WRITE_CONTACTS 0.05
24
25 Only Spyware Dangerous
26 dangerous android.permission.READ_CALL_LOG 0.5
27 dangerous android.permission.PROCESS_OUTGOING_CALLS 0.45
28 dangerous android.permission.ACCESS_SUPERUSER 0.15
29 dangerous android.permission.READ_PHONE_NUMBERS 0.1
30 dangerous android.permission.WRITE_CALL_LOG 0.1
31 dangerous android.app.action.DEVICE_ADMIN_ENABLED 0.05
32
33 Only Popular Dangerous
34 dangerous android.permission.ACTIVITY_RECOGNITION 0.15
35 dangerous android.permission.WRITE_CALENDAR 0.1
36
37 Shared Signature
38 signature android.permission.SYSTEM_ALERT_WINDOW 0.45 0.25
39 signature android.permission.WRITE_SETTINGS 0.3 0.05
40 signature android.permission.REQUEST_INSTALL_PACKAGES 0.1 0.1
41
42 Only Spyware Signature
43 signature android.permission.PACKAGE_USAGE_STATS 0.2
44 signature android.permission.READ_PRIVILEGED_PHONE_STATE 0.15
45 signature android.permission.INTERACT_ACROSS_USERS 0.1
46 signature android.permission.INTERACT_ACROSS_USERS_FULL 0.1
47 signature android.permission.READ_LOGS 0.1
48 signature android.permission.WRITE_SECURE_SETTINGS 0.1
49 signature android.app.action.BIND_DEVICE_ADMIN 0.05
50 signature android.permission.BIND_ACCESSIBILITY_SERVICE 0.05
51 signature android.permission.BIND_NOTIFICATION_LISTENER_SERVICE 0.05
52 signature android.permission.CAPTURE_AUDIO_OUTPUT 0.05
53 signature android.permission.CHANGE_CONFIGURATION 0.05
54 signature android.permission.MANAGE_DEVICE_ADMINS 0.05
55 signature android.permission.MANAGE_USERS 0.05
56 signature android.permission.MODIFY_PHONE_STATE 0.05
57 signature android.permission.OVERRIDE_WIFI_CONFIG 0.05
58 signature android.permission.REBOOT 0.05
59 signature android.permission.STATUS_BAR 0.05
60 signature android.permission.TETHER_PRIVILEGED 0.05
61 signature android.permission.UPDATE_APP_OPS_STATS 0.05
62 signature com.android.launcher.permission.WRITE_SETTINGS 0.05
63
64 Only Popular Signature
65 signature android.permission.BATTERY_STATS 0.05
66 signature android.permission.MANAGE_DOCUMENTS 0.05
67
68 Removed
69 removed android.permission.USE_CREDENTIALS 0.15 0.5
70 removed android.permission.READ_PROFILE 0.15 0.4
71 removed android.permission.FLASHLIGHT 0.1 0.15
72 removed android.permission.WRITE_SMS 0.1 0.05
73 removed android.permission.MANAGE_ACCOUNTS 0.05 0.45
74 removed android.permission.AUTHENTICATE_ACCOUNTS 0.05 0.35
75 removed com.android.browser.permission.READ_HISTORY_BOOKMARKS 0.25
76 removed com.android.browser.permission.WRITE_HISTORY_BOOKMARKS 0.1
77 removed android.permission.READ_HISTORY_BOOKMARKS 0.05
78 removed android.permission.READ_USER_DICTIONARY 0.05

```

```
79 removed android.permission.WRITE_USER_DICTIONARY    0.05
80 removed android.permission.SUBSCRIBED_FEEDS_READ    0.05
81 removed android.permission.SUBSCRIBED_FEEDS_WRITE    0.05
```

1 android.permission.WRITE\_EXTERNAL\_STORAGE, Allows an application to write to external storage.  
 2 android.permission.ACCESS\_FINE\_LOCATION, Allows an app to access precise location.  
 3 android.permission.READ\_EXTERNAL\_STORAGE, Allows an application to read from external storage.  
 4 android.permission.ACCESS\_COARSE\_LOCATION, Allows an app to access approximate location.  
 5 android.permission.READ\_CONTACTS, Allows an application to read the user's contacts data.  
 6 android.permission.READ\_PHONE\_STATE, Allows read only access to phone state, including the current cellular network information, the status of any ongoing calls, and a list of any PhoneAccounts registered on the device.  
 7 android.permission.RECORD\_AUDIO, Allows an application to record audio.  
 8 android.permission.CAMERA, Required to be able to access the camera device.  
 9 android.permission.READ\_SMS, Allows an application to read SMS messages.  
 10 android.permission.RECEIVE\_SMS, Allows an application to receive SMS messages.  
 11 android.permission.GET\_ACCOUNTS, Allows access to the list of accounts in the Accounts Service.  
 12 android.permission.CALL\_PHONE, Allows an application to initiate a phone call without going through the Dialer user interface for the user to confirm the call.  
 13 android.permission.ACCESS\_BACKGROUND\_LOCATION, Allows an app to access location in the background.  
 14 android.permission.ACCESS\_MEDIA\_LOCATION, Allows an application to access any geographic locations persisted in the user's shared collection.  
 15 android.permission.READ\_CALENDAR, Allows an application to read the user's calendar data.  
 16 android.permission.SEND\_SMS, Allows an application to send SMS messages.  
 17 android.permission.RECEIVE\_MMS, Allows an application to monitor incoming MMS messages.  
 18 android.permission.WRITE\_CONTACTS, Allows an application to write the user's contacts data.  
 19 android.permission.READ\_CALL\_LOG, Allows an application to read the user's call log.  
 20 android.permission.PROCESS\_OUTGOING\_CALLS, Allows an application to see the number being dialed during an outgoing call with the option to redirect the call to a different number or abort the call altogether.  
 21 android.permission.ACCESS\_SUPERUSER, Allows root access.  
 22 android.permission.READ\_PHONE\_NUMBERS, Allows read access to the device's phone number(s).  
 23 android.permission.WRITE\_CALL\_LOG, Allows an application to write (but not read) the user's call log data.  
 24 android.app.action.DEVICE\_ADMIN\_ENABLED, This permission is required for functions that give the user rich control over devices, including remote wiping and device management.  
 25 android.permission.ACTIVITY\_RECOGNITION, Allows an application to recognize physical activity.  
 26 android.permission.WRITE\_CALENDAR, Allows an application to write the user's calendar data.  
 27 android.permission.SYSTEM\_ALERT\_WINDOW, Allows an app to create windows shown on top of all other apps.  
 28 android.permission.WRITE\_SETTINGS, Allows an application to read or write the system settings.  
 29 android.permission.REQUEST\_INSTALL\_PACKAGES, Allows an application to request installing packages.  
 30 android.permission.PACKAGE\_USAGE\_STATS, Allows an application to collect component usage statistics  
 31 android.permission.READ\_PRIVILEGED\_PHONE\_STATE, Allows read access to privileged phone state.  
 32 android.permission.INTERACT\_ACROSS\_USERS, Allows an application to call APIs that allow it to do interactions across the users on the device, using singleton services and user-targeted broadcasts. This permission is not available to third party applications.  
 33 android.permission.INTERACT\_ACROSS\_USERS\_FULL, Fuller form of INTERACT\_ACROSS\_USERS that removes restrictions on where broadcasts can be sent and allows other types of interactions.  
 34 android.permission.READ\_LOGS, Allows an application to read the low-level system log files.  
 35 android.permission.WRITE\_SECURE\_SETTINGS, Allows an application to update application operation statistics. Not for use by third party apps.  
 36 android.app.action.BIND\_DEVICE\_ADMIN, Must be required by device administration receiver, to ensure that only the system can interact with it.  
 37 android.permission.BIND\_ACCESSIBILITY\_SERVICE, Must be required by an AccessibilityService, to ensure that only the system can bind to it.  
 38 android.permission.BIND\_NOTIFICATION\_LISTENER\_SERVICE, Must be required by an NotificationListenerService, to ensure that only the system can bind to it.  
 39 android.permission.CAPTURE\_AUDIO\_OUTPUT, Allows an application to capture audio output.  
 40 android.permission.CHANGE\_CONFIGURATION, Allows an application to modify the current configuration, such as locale.  
 41 android.permission.MANAGE\_DEVICE\_ADMINS, Required to add or remove another application as a device admin. Not for use by third-party applications.  
 42 android.permission.MANAGE\_USERS, Allows an application to call APIs that allow it to query and manage users on the device. This permission is not available to third party applications.  
 43 android.permission.MODIFY\_PHONE\_STATE, Allows modification of the telephony state - power on, mmui, etc.  
 44 android.permission.OVERRIDE\_WIFI\_CONFIG, Allows an application to modify any wifi configuration, even if created by another application. Once reconfigured the original creator cannot make any further modifications. Not for use by third-party applications.  
 45 android.permission.REBOOT, Required to be able to reboot the device.  
 46 android.permission.STATUS\_BAR, Allows an application to open, close, or disable the status bar and its icons.  
 47 android.permission.TETHER\_PRIVILEGED, Allows applications to change tether state and run tether carrier provisioning. Not for use by third-party applications.  
 48 android.permission.UPDATE\_APP\_OPS\_STATS, Allows an application to update application operation statistics. Not for use by third party apps.  
 49 com.android.launcher.permission.WRITE\_SETTINGS, Allows the app to change settings and shortcuts in Home.  
 50 android.permission.BATTERY\_STATS, Allows an application to collect battery statistics.  
 51 android.permission.MANAGE\_DOCUMENTS, Allows an application to manage access to documents, usually as part of a document picker.  
 52 android.permission.USE\_CREDENTIALS, Deprecated in API level 23.  
 53 android.permission.READ\_PROFILE, Deprecated in API level 23.  
 54 android.permission.FLASHLIGHT, Deprecated in API level 24.  
 55 android.permission.WRITE\_SMS, Deprecated in API level 23.  
 56 android.permission.MANAGE\_ACCOUNTS, Deprecated in API level 23.  
 57 android.permission.AUTHENTICATE\_ACCOUNTS, Deprecated in API level 23.  
 58 com.android.browser.permission.READ\_HISTORY\_BOOKMARKS, Deprecated in API level 23.

```
59 com.android.browser.permission.WRITE_HISTORY_BOOKMARKS,Deprecated in API level 23.  
60 android.permission.READ_HISTORY_BOOKMARKS,Deprecated in API level 23.  
61 android.permission.READ_USER_DICTIONARY,Deprecated in API level 23.  
62 android.permission.WRITE_USER_DICTIONARY,Deprecated in API level 23.  
63 android.permission.SUBSCRIBED_FEEDS_READ,Removed.  
64 android.permission.SUBSCRIBED_FEEDS_WRITE,Removed.
```

```
1 package apprisk;
2
3 import java.util.ArrayList;
4
5 public class App {
6     private final String appName;
7     private final String packageName;
8     private final String firstInstall;
9     private final String lastMod;
10    private final ArrayList<String> perms;
11
12    public App(String aN, String pN, String fI, String lM, ArrayList<String> p) {
13        this.appName = aN;
14        this.packageName = pN;
15        this.firstInstall = fI;
16        this.lastMod = lM;
17        this.perms = p;
18    }
19
20    public String getAppName() {
21        return appName;
22    }
23
24    public String getPackageName() {
25        return packageName;
26    }
27
28    public String getFirstInstall() {
29        return firstInstall;
30    }
31
32    public String getLastMod() {
33        return lastMod;
34    }
35
36    public ArrayList<String> getPerms() {
37        return perms;
38    }
39 }
40 }
```

```

1 package apprisk;
2
3 import java.io.BufferedReader;
4 import java.io.File;
5 import java.io.FileReader;
6 import java.io.IOException;
7 import java.util.*;
8
9 public class AppRisk {
10     File permWeightFile = new File("src/res/permissionWeights.txt");
11     File whitelistTxt = new File("src/res/whitelist.txt");
12     File permDescriptions = new File("src/res/permissionDescriptions.txt");
13     File appDataFile = new File("src/res/appdata.txt"); // Comment for testing
14 //    File appDataFile = new File("src/res/max_appdata.txt"); // Uncomment for testing
15 //    File appDataFile = new File("src/res/seed_appdata.txt"); // Uncomment for testing
16     Map<String, Permissions> permWeightMap = new HashMap<>();
17     ArrayList<App> appList = new ArrayList<>();
18     Map<String, String> whitelist = new HashMap<>();
19     Map<String, String> permDesc = new HashMap<>();
20     String[] listData;
21
22     public AppRisk() {
23         try {
24             getWeights(permWeightMap);
25             appList = readAppData();
26             whitelist = readWhitelist(whitelistTxt);
27             permDesc = readPermissionDescriptions(permDescriptions);
28         } catch (IOException e) {
29             e.printStackTrace();
30         }
31     }
32     // Reads permissions and usage rates from file and adds to map
33     private void getWeights(Map<String, Permissions> map) throws IOException {
34         BufferedReader br = new BufferedReader(new FileReader(permWeightFile));
35         String line;
36         String[] result;
37
38         // Very Dangerous
39         if ((br.readLine()).equals("Very Dangerous")) {
40             while (!(line = br.readLine()).equals("")) {
41                 result = line.split("\t");
42                 double weight = 3 + Double.parseDouble(result[2]);
43                 // Adds "permName: type, weight"
44                 map.put(result[1], new Permissions(result[0], weight));
45             }
46         }
47         // Moderately Dangerous
48         if ((br.readLine()).equals("Moderately Dangerous")) {
49             while (!(line = br.readLine()).equals("")) {
50                 result = line.split("\t");
51                 double weight = 2 + Double.parseDouble(result[2]);
52                 map.put(result[1], new Permissions(result[0], weight));
53             }
54         }
55         // Less Dangerous
56         if ((br.readLine()).equals("Less Dangerous")) {
57             while (!(line = br.readLine()).equals("")) {
58                 result = line.split("\t");
59                 double weight = 1 + Double.parseDouble(result[2]);
60                 map.put(result[1], new Permissions(result[0], weight));
61             }
62         }
63         // Only Spyware Dangerous
64         if ((br.readLine()).equals("Only Spyware Dangerous")) {
65             while (!(line = br.readLine()).equals("")) {
66                 result = line.split("\t");
67                 double weight = 1.5 + Double.parseDouble(result[2]);
68                 map.put(result[1], new Permissions(result[0], weight));
69             }
70         }
71         // Only Popular Dangerous
72         if ((br.readLine()).equals("Only Popular Dangerous")) {
73             while (!(line = br.readLine()).equals("")) {
74                 result = line.split("\t");
75                 double weight = 1;
76                 map.put(result[1], new Permissions(result[0], weight));
77             }
78         }
}

```

```

79     // Shared Signature
80     if ((br.readLine()).equals("Shared Signature")) {
81         while (!(line = br.readLine()).equals("")) {
82             result = line.split("\t");
83             double weight = 1 + Double.parseDouble(result[2]);
84             map.put(result[1], new Permissions(result[0], weight));
85         }
86     }
87     // Only Spyware Signature
88     if ((br.readLine()).equals("Only Spyware Signature")) {
89         while (!(line = br.readLine()).equals("")) {
90             result = line.split("\t");
91             double weight = 3 + Double.parseDouble(result[2]);
92             map.put(result[1], new Permissions(result[0], weight));
93         }
94     }
95     // Only Popular Signature
96     if ((br.readLine()).equals("Only Popular Signature")) {
97         while (!(line = br.readLine()).equals("")) {
98             result = line.split("\t");
99             double weight = 1;
100            map.put(result[1], new Permissions(result[0], weight));
101        }
102    }
103    // Removed
104    if ((br.readLine()).equals("Removed")) {
105        while ((line = br.readLine()) != null) {
106            result = line.split("\t");
107            double weight = 0.3;
108            map.put(result[1], new Permissions(result[0], weight));
109        }
110    }
111
112    br.close();
113}
114 // Reads app data from file, adds names for list selection panel, and adds apps to list
115 // File must have two blank lines at end to work
116 private ArrayList<App> readAppData() throws IOException {
117     BufferedReader br = new BufferedReader(new FileReader(appDataFile));
118     String line;
119     String appName = null;
120     String packageName = null;
121     String firstInstall = null;
122     String lastMod = null;
123     ArrayList<String> perms;
124     ArrayList<App> apps = new ArrayList<>();
125
126     while ((line = br.readLine()) != null) {
127         perms = new ArrayList<>();
128         if (line.contains("App name:")) {
129             appName = (line.split(": "))[1];
130         }
131         if (line.contains("Package name:")) {
132             packageName = (line.split(": "))[1];
133         }
134         if (line.contains("First installed:")) {
135             firstInstall = (line.split(": "))[1];
136         }
137         if (line.contains("Last modified:")) {
138             lastMod = (line.split(": "))[1];
139         }
140         if (line.contains("Permissions:")) {
141             while (!(line = br.readLine()).equals("")) {
142                 perms.add(line);
143             }
144         }
145         if (line.equals("")) {
146             apps.add(new App(appName, packageName, firstInstall, lastMod, perms));
147         }
148     }
149
150     br.close();
151
152     listData = new String[apps.size()];
153     for (int i = 0; i < apps.size(); i++) {
154         listData[i] = apps.get(i).getAppName() + " (" + apps.get(i).getPackageName() + ")";
155     }
156

```

```

157     return apps;
158 }
159 // Calculates risk of selected list item using weight map
160 public String[] calculateRisk(String selectedApp) {
161     String packageName = null;
162     String firstInstall = null;
163     String lastMod = null;
164     int weightPermCount = 0;
165     int totalPermCount;
166     double risk = 0;
167     double ratio = 0;
168     List<String> permsList = new ArrayList<>();
169
170     for (App a : appList) {
171         if (a getAppName().equals(selectedApp)) {
172             packageName = a.getPackageName();
173             firstInstall = a.getFirstInstall();
174             lastMod = a.getLastMod();
175             totalPermCount = a.getPerms().size();
176             for (String s : a.getPerms()) {
177                 if (permWeightMap.containsKey(s)) {
178                     risk += permWeightMap.get(s).getWeight();
179                     permsList.add(permWeightMap.get(s).getType() + " " + s);
180                     weightPermCount += 1;
181                 }
182             }
183             ratio = (double)weightPermCount / totalPermCount;
184         }
185     }
186     if (ratio >= 0.4 && ratio < 1) {
187         risk *= 1 + ratio;
188     }
189     Collections.sort(permsList);
190
191     return new String[]{String.format("%.2f", risk), packageName, firstInstall, lastMod,
192                         String.join("\n", permsList)};
193 }
194 // Reads whitelist from file and adds to map
195 Map<String, String> readWhitelist(File wlTxt) throws IOException {
196     BufferedReader br = new BufferedReader(new FileReader(wlTxt));
197     String line;
198     String[] result;
199     Map<String, String> map = new HashMap<>();
200
201     while ((line = br.readLine()) != null) {
202         result = line.split(",");
203         map.put(result[0], result[1]);
204     }
205     br.close();
206
207     return map;
208 }
209 // Reads permission descriptions from file and adds to map
210 Map<String, String> readPermissionDescriptions(File permDescTxt) throws IOException {
211     BufferedReader br = new BufferedReader(new FileReader(permDescTxt));
212     String line;
213     String[] result;
214     Map<String, String> map = new HashMap<>();
215
216     while ((line = br.readLine()) != null) {
217         result = line.split(",");
218         map.put(result[0], result[1]);
219     }
220     br.close();
221
222     return map;
223 }
224
225 public String[] getListData() {
226     return listData;
227 }
228
229 public Map<String, String> getWhiteList() {
230     return whitelist;
231 }
232
233 public Map<String, String> getPermissionDescriptions() {
234     return permDesc;

```

```
235     }
236
237     public Map<String, Permissions> getPermWeightMap() {
238         return permWeightMap;
239     }
240 }
241
```

```
1 package apprisk;
2
3 public class Permissions {
4     String type;
5     double weight;
6
7     public Permissions(String t, double w) {
8         this.weight = w;
9         this.type = t;
10    }
11
12    public double getWeight() {
13        return weight;
14    }
15
16    public String getType() {
17        return type;
18    }
19 }
20
21
```

```

1 package apprisk;
2
3 import java.awt.*;
4 import java.util.Map;
5
6 import javax.swing.*;
7 import javax.swing.event.*;
8
9 @SuppressWarnings("serial")
10 public class GraphicInterface extends JPanel {
11     JTextArea listOutput;
12     JTextArea assessmentOutput;
13     JTextArea descriptionOutput;
14     JList<String> list;
15     ListSelectionModel listSelectionModel;
16     AppRisk appRisk;
17     Map<String, Permissions> permWeightMap;
18     Map<String, String> permDescMap;
19
20     /**
21      * Create the panel.
22      */
23     public GraphicInterface() {
24         super(new BorderLayout());
25
26         appRisk = new AppRisk();
27         permWeightMap = appRisk.getPermWeightMap();
28         permDescMap = appRisk.getPermissionDescriptions();
29         list = new JList<>(appRisk.getListData());
30
31         listSelectionModel = list.getSelectionModel();
32         listSelectionModel.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);
33         listSelectionModel.addListSelectionListener(new ListSelectionHandler());
34         JScrollPane listPane = new JScrollPane(list);
35
36         //Build output area.
37         listOutput = new JTextArea(1, 10);
38         listOutput.setEditable(false);
39         listOutput.setMargin(new Insets(2, 5, 2, 5));
40         JScrollPane listOutputPane = new JScrollPane(listOutput,
41                 ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS,
42                 ScrollPaneConstants.HORIZONTAL_SCROLLBAR_AS_NEEDED);
43
44         assessmentOutput = new JTextArea(1, 10);
45         assessmentOutput.setEditable(false);
46         assessmentOutput.setLineWrap(true);
47         assessmentOutput.setWrapStyleWord(true);
48         assessmentOutput.setMargin(new Insets(2, 5, 2, 5));
49         assessmentOutput.setText("Click on an item to view its details.");
50         JScrollPane assessmentPane = new JScrollPane(assessmentOutput,
51                 ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS,
52                 ScrollPaneConstants.HORIZONTAL_SCROLLBAR_AS_NEEDED);
53
54         descriptionOutput = new JTextArea(1, 10);
55         descriptionOutput.setEditable(false);
56         descriptionOutput.setLineWrap(true);
57         descriptionOutput.setWrapStyleWord(true);
58         descriptionOutput.setMargin(new Insets(2, 5, 2, 5));
59         JScrollPane descriptionPane = new JScrollPane(descriptionOutput,
60                 ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS,
61                 ScrollPaneConstants.HORIZONTAL_SCROLLBAR_AS_NEEDED);
62
63         //Do the layout.
64         JSplitPane splitPaneLeft = new JSplitPane(JSplitPane.VERTICAL_SPLIT);
65         add(splitPaneLeft, BorderLayout.WEST);
66
67         JPanel topLeft = new JPanel();
68         topLeft.setLayout(new BoxLayout(topLeft, BoxLayout.LINE_AXIS));
69         JPanel listContainer = new JPanel(new GridLayout(1, 1));
70         listContainer.setBorder(BorderFactory.createTitledBorder("Installed Applications"));
71         listContainer.add(listPane);
72
73         topLeft.setBorder(BorderFactory.createEmptyBorder(5, 5, 0, 5));
74         topLeft.add(listContainer);
75
76         topLeft.setMinimumSize(new Dimension(100, 100));
77         topLeft.setPreferredSize(new Dimension(100, 300));
78         splitPaneLeft.add(topLeft);

```

```

79         JPanel bottomLeft = new JPanel(new BorderLayout());
80         bottomLeft.add(listOutputPane, BorderLayout.CENTER);
81         bottomLeft.setMinimumSize(new Dimension(400, 100));
82         bottomLeft.setPreferredSize(new Dimension(450, 300));
83         splitPaneLeft.add(bottomLeft);
84
85         JSplitPane splitPaneRight = new JSplitPane(JSplitPane.VERTICAL_SPLIT);
86
87         JPanel topRight = new JPanel();
88         topRight.setLayout(new BoxLayout(topRight, BoxLayout.LINE_AXIS));
89         JPanel assessmentContainer = new JPanel(new GridLayout(1, 1));
90         assessmentContainer.setBorder(BorderFactory.createTitledBorder("Assessment"));
91         assessmentContainer.add(assessmentPane);
92
93         topRight.setBorder(BorderFactory.createEmptyBorder(5, 5, 0, 5));
94         topRight.add(assessmentContainer);
95
96         topRight.setMinimumSize(new Dimension(100, 100));
97         topRight.setPreferredSize(new Dimension(400, 300));
98         splitPaneRight.add(topRight);
99
100        add(splitPaneRight, BorderLayout.CENTER);
101
102        JPanel bottomRight = new JPanel();
103        bottomRight.setLayout(new BoxLayout(bottomRight, BoxLayout.LINE_AXIS));
104        JPanel descriptionContainer = new JPanel(new GridLayout(1, 1));
105        descriptionContainer.setBorder(BorderFactory.createTitledBorder("Permission Details"));
106        descriptionContainer.add(descriptionPane);
107
108        bottomRight.setBorder(BorderFactory.createEmptyBorder(5, 5, 0, 5));
109        bottomRight.add(descriptionContainer);
110        bottomRight.setMinimumSize(new Dimension(100, 100));
111        bottomRight.setPreferredSize(new Dimension(500, 500));
112        splitPaneRight.add(bottomRight);
113    }
114
115
116    /**
117     * Create the GUI and show it. For thread safety,
118     * this method should be invoked from the
119     * event-dispatching thread.
120     */
121    private static void createAndShowGUI() {
122        //Create and set up the window.
123        JFrame frame = new JFrame("Your Risk Assessment");
124        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
125
126        //Create and set up the content pane.
127        GraphicInterface gui = new GraphicInterface();
128        gui.setOpaque(true);
129        frame.setContentPane(gui);
130
131        //Display the window.
132        frame.pack();
133        frame.setLocationRelativeTo(null);
134        frame.setVisible(true);
135    }
136
137    public static void main(String[] args) {
138        //Schedule a job for the event-dispatching thread:
139        //creating and showing this application's GUI.
140        javax.swing.SwingUtilities.invokeLater(GraphicInterface::createAndShowGUI);
141    }
142
143    // Listen for change in list selection
144    class ListSelectionHandler implements ListSelectionListener {
145        public void valueChanged(ListSelectionEvent e) {
146            boolean isAdjusting = e.getValueIsAdjusting();
147            if (!isAdjusting) {
148                getPermissionDetails(getListOutput());
149            }
150        }
151
152        // Changes display in top right and bottom left panels according to list selection in first panel
153        String getListOutput() {
154            Map<String, String> whitelist = appRisk.getWhiteList();
155
156            String appName = (list.getSelectedValue().split(" \\\\"))[0];
157            String[] data = appRisk.calculateRisk(appName);

```

```

157     double riskValue = Double.parseDouble(data[0]);
158     String justPerms = data[4].replace("dangerous ", "").replace("removed ", "")
159         .replace("signature ", "");
160
161     listOutput.setText("Risk = " + data[0] + "\n\n"
162         + "First installed: " + data[2] + "\n"
163         + "Last modified: " + data[3] + "\n\n"
164         + "Permissions:\n");
165     if (justPerms.equals("")) {
166         listOutput.append("No suspicious permissions");
167     } else {
168         listOutput.append(justPerms);
169     }
170     listOutput.setCaretPosition(0);
171
172     if (whitelist.containsKey(appName) && whitelist.get(appName).equals(data[1])) {
173         assessmentOutput.setText("This app has been whitelisted.\n\nPopular, well-known apps still have the"
174             + " potential to be dangerous. For example, if an attacker knows your device PIN or"
175             + " account password, they can access your private data collected by the app.");
176     } else if (riskValue == 0.0) {
177         assessmentOutput.setText("This app is very unlikely to be spyware.\n\nThis app does not use any
permissions"
178             + " associated with spyware.\n\nBe mindful that a future update could introduce permissions"
179             + " that could be dangerous in the wrong hands.");
180     } else if (riskValue > 0 && riskValue < 20) {
181         assessmentOutput.setText("This app is unlikely to be spyware.\n\nHowever, the risk value could have
been"
182             + " skewed downward if the total number of permissions used by this app is small.");
183     } else if (riskValue >= 20 && riskValue < 50) {
184         assessmentOutput.setText("This app is slightly likely to be spyware.\n\nMany popular apps fall within"
185             + " this range, in part because they use location services. Check the name and installation"
186             + " date to see if you recognize installing this app yourself, and familiarize yourself with"
187             + " its capabilities through its permissions.");
188     } else if (riskValue >= 50 && riskValue < 70) {
189         assessmentOutput.setText("This app is likely to be spyware.\n\nThe more suspicious permissions an app"
190             + " uses, the more capabilities the app has to invade your privacy.");
191     } else {
192         assessmentOutput.setText("This app is very likely to be spyware.\n\nThe maximum risk value is 129.05."
193             + " The closer an app's risk value is to 129.05, the more likely it is to be spyware"
194             + " due to the number of dangerous and spyware-linked permissions it uses.");
195     }
196     return data[4];
197 }
198 // Changes display in bottom right panel according to list selection in first panel
199 void getPermissionDetails(String str) {
200     String[] result1 = str.split("\n");
201
202     descriptionOutput.setText("");
203
204     if (!(result1[0].equals("")))) {
205         for (String s : result1) {
206             String[] result2 = s.split(" ");
207             descriptionOutput.append(result2[1] + "\n" + result2[0].toUpperCase() + "\n"
208                 + permDescMap.get(result2[1]) + "\n\n");
209         }
210     }
211     descriptionOutput.setCaretPosition(0);
212 }
213 }
214

```